SPS-2 AK

Monte

Brent Rauhut Engineering Inc.

17 November 1997

Mr. Aramis Lopez
Pavement Performance Division - LTPP
Federal Highway Administration
Turner-Fairbanks Highway Research Center
6300 Georgetown Pike, Room F-215
McLean, Virginia 22101

Subject: Final Report - Construction of SPS-2 Project (0502) on I-30 Westbound in Hot Springs County, Arkansas

Dear Aramis,

Enclosed is the Final Report for the Specific Pavement Studies (SPS-2) project on I-30 Westbound in Hot Springs County, Arkansas. This report documents the construction of the test sections at this location, as well as monitoring of the project to date.

Please feel free to contact me should you have any questions or comments regarding any of the information included in this report.

Sincerely,

Mark P. Gardner, P.E.
Co-Principal Investigator, SRCO

MPG:dmj

Enclosure: As stated.

c.w/Enc: James Gee, ARSHTD
Gonzalo Rada, PCS/LAW
Tim Martin, SRCO
Boon Thian, ARSHTD
Shiraz Tayabji, ERES-MD
Zane Dunnam, SRCO

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FINAL REPORT

SPS-2 PROJECT 0502: STRATEGIC STUDY OF STRUCTURAL FACTORS FOR RIGID PAVEMENTS I-30, WESTBOUND HOT SPRINGS COUNTY, ARKANSAS

FHWA/LTPP

SOUTHERN REGION COORDINATION OFFICE

November 1997

BRENT RAUHUT ENGINEERING INC.

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FINAL REPORT - SPS-2 PROJECT 0502

STRATEGIC STUDY OF STRUCTURAL FACTORS FOR RIGID PAVEMENTS I-30, WESTBOUND HOT SPRINGS COUNTY, ARKANSAS

INTRODUCTION

The Strategic Highway Research program (SHRP), in conjunction with the Federal Highway Administration (FHWA), developed the Long Term Pavement performance (LTPP) program to study the various factors that affect pavement performance. As part of the LTPP studies, sections of highway are being selected for Specific Pavement Studies (SPS). These studies are design to provide information about varying pavement design, materials and environmental effects on pavement performance.

There are a total of 12 SPS-2 projects located throughout the United States. This SPS-2 project is located in the westbound lanes of IH-30 in Hot Springs County, Arkansas. The letting date was August 1993 and construction began in November 1993. This report covers the site-selection, coordination and monitoring activities for all phases of construction of this project. The appendices contain background information on the project selection (appendix A), material sampling and testing information (appendix B), surface profile plots (appendix C), construction data (appendix D), and photographs (appendix E). Any detailed information not found in this report may be found in the LTPP database on the Regional Information Management system (RIMS) at the Southern Region Coordination Office (SRCO) in Austin, Texas and the National Information Management System (NIMS) at the LTPP Division office of the FHWA.

SPS-2 General Experiment Design

The objective of the SPS-2 experiment is to enhance the understanding of strategic factors that influence the performance of rigid pavements. This SPS-2 project addresses factors including drainage, base type, concrete strength, pavement thickness, and their relation to pavement performance. The experiment design for the SPS-2 experiment is shown in Table 1. The SPS-2 in Arkansas fulfills the requirements for the wet no-freeze climatic zone with fine-grained subgrade. Twelve distinct test sections are located at the project site, varying in thickness and layer type. A detailed layout of each of the twelve sections is shown in Table 2 and Figure 1.

For additional information on the general experiment design for SPS-2, please refer to "Specific Pavement Studies Experimental Design and Research Plan for SPS-2, Strategic Study of Structural Factors for Rigid Pavements", dated April 1990.

Table 1. Experiment Design for SPS-2

Pavement Structure					Climate Zones, Subgrade, Site															
					Wet								Dry							
Drain	Base Type	PCC		Lane Width (ft)	Freeze				No Freeze				Freeze				No Freeze			
		Thick, (in)	Strength (psi)		Fine		Coarse		Fine		Coarse		Fine		Coarse		Fine		Coarse	
					J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
No	AGG	8	550	12	J1		L1		N1		P1		R1		T1		V1		X1	
				14		K1		M1		O1		Q1		S1		U1		W1		Y1
			900	12		K2		M2		O2		Q2		S2		U2		W2		Y2
				14	J2		L2		N2		P2		R2		T2		V2		X2	
		11	550	12		K3		M3		O3		Q3		S3		U3		W3		Y3
				14	J3		L3		N3		P3		R3		T3		V3		X3	
			900	12	J4		L4		N4		P4		R4		T4		V4		X4	
				14		K4		M4		O4		Q4		S4		U4		W4		Y4
No	LCB	8	550	12	J5		L5		N5		P5		R5		T5		V5		X5	
				14		K5		M5		O5		Q5		S5		U5		W5		Y5
			900	12		K6		M6		O6		Q6		S6		U6		W6		Y6
				14	J6		L6		N6		P6		R6		T6		V6		X6	
		11	550	12		K7		M7		O7		Q7		S7		U7		W7		Y7
				14	J7		L7		N7		P7		R7		T7		V7		X7	
			900	12	J8		L8		N8		P8		R8		T8		V8		X8	
				14		K8		M8		O8		Q8		S8		U8		W8		Y8
No	PATB	8	550	12	J9		L9		N9		P9		R9		T9		V9		X9	
				14		K9		M9		O9		Q9		S9		U9		W9		Y9
			900	12		K10		M10		O10		Q10		S10		U10		W10		Y10
				14	J10		L10		N10		P10		R10		T10		V10		X10	
		11	550	12		K11		M11		O11		Q11		S11		U11		W11		Y11
				14	J11		L11		N11		P11		R11		T11		V11		X11	
			900	12	J12		L12		N12		P12		R12		T12		V12		X12	
				14		K12		M12		O12		Q12		S12		U12		W12		Y12

AGG = Dense-graded untreated aggregate base
LCB = Lean concrete base
PATB = Permeable asphalt treated base
All perpendicular doweled joints at 15 ft. spacing

Table 2. Test Section Layout

Section (Cell ID)	Cross Section	Lane Width	Begin Station	End Station
050203 (03)	11″ PCC (550 psi) 6″ DGAB	12′	5960 + 00	5954 + 00
050211 (011)	11″ PCC (900 psi) 4″ PATB 4″ DGAB	12′	5952 + 00	5946 + 00
050202 (02)	8″ PCC (900 psi) 6″ DGAB	12′	5934 + 50	5928 + 50
050210 (010)	8″ PCC (900 psi) 4″ PATB 4″ DGAB	12′	5924 + 50	5918 + 50
050207 (07)	11″ PCC (550 psi) 6″ LCB	12′	5911 + 00	5905 + 00
050206 (06)	8″ PCC (900 psi) 6″ LCB	12′	5902 + 00	5896 + 00
050205 (05)	8″ PCC (550 psi) 6″ LCB	14′	5887 + 00	5881 + 00
050208 (08)	11″ PCC (900 psi) 6″ LCB	14′	5878 + 00	5872 + 00

Table 2. Test Section Layout (Continued)

Section (Cell ID)	Cross Section	Lane Width	Begin Station	End Station
050212 (012)	11″ PCC (900 psi)	14′	5871 + 00	5865 + 00
	4″ PATB			
	4″ DGAB			
050204 (04)	11″ PCC (900 psi)	14′	5863 + 00	5857 + 00
	6″ DGAB			
050201 (01)	8″ PCC (550 psi)	14′	5853 + 00	5847 + 00
	6″ DGAB			
050209 (09)	8″ PCC (550 psi)	14′	5831 + 50	5825 + 50
	4″ PATB			
	4″ DGAB			

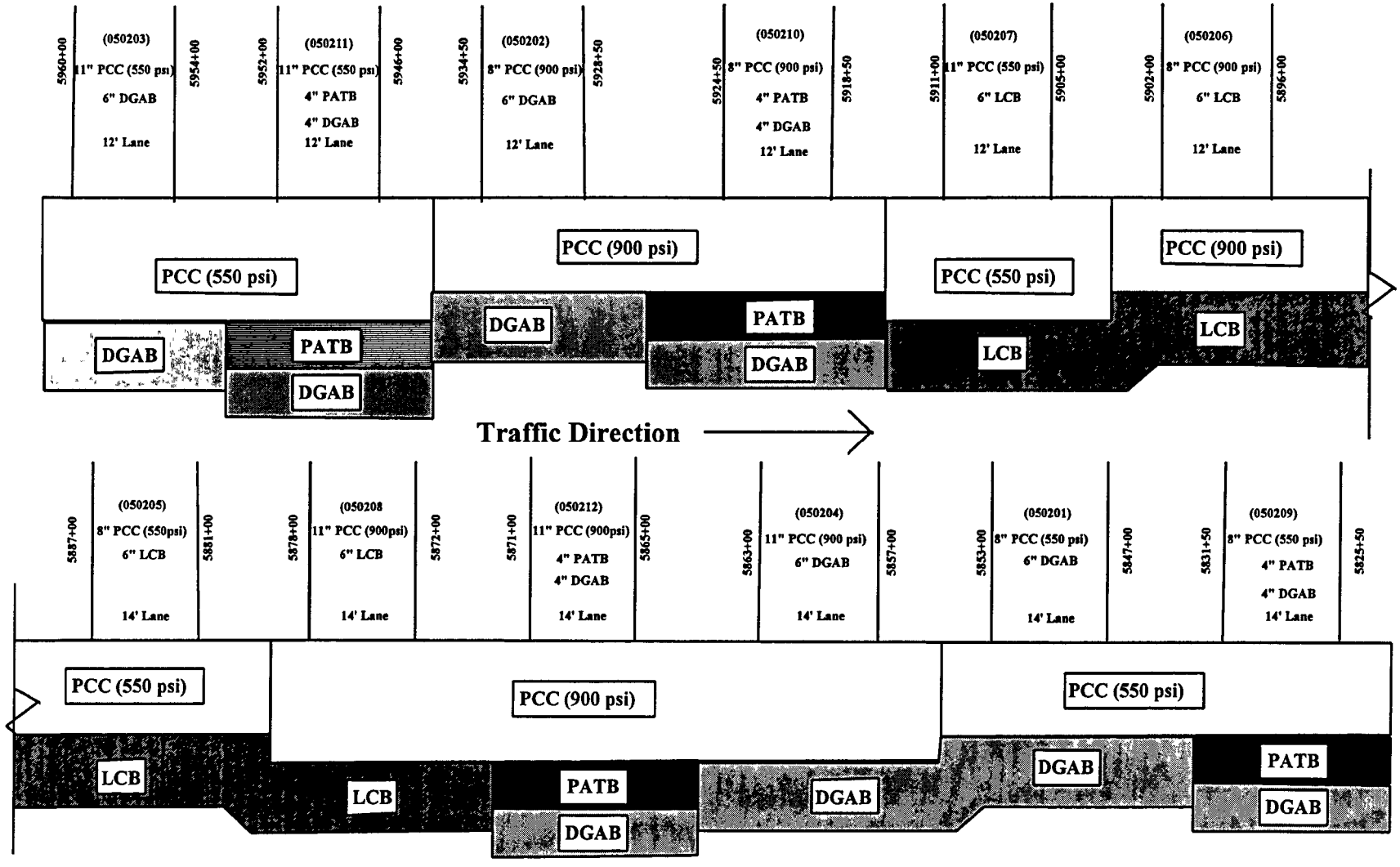

Figure 1. Layout of Test Sections

Selection/Nomination of I-30, Westbound

The SPS-2 project on IH-30 in Hot Springs county, Arkansas was nominated on 13 May 1993. Appendix A includes the project nomination forms and other pertinent correspondence and information. This project is a four-lane divided highway with 10-foot asphalt concrete shoulders. The estimated traffic includes 45% heavy trucks with 1,700,000 equivalent single-axle loads (ESALs) annually. The project is located just west of the interchange of IH-30 and US-70. There were no driveways or ramps located within the project that would disrupt the stream of traffic. The project begins at milepost 110.44 and ends at milepost 106.0, with a total length of 4.4 miles. The project was accepted for inclusion in this experiment by the FHWA on 19 August 1993. The project was let in August 1993.

PRECONSTRUCTION MONITORING

Preconstruction monitoring consisted of rod and level shots, longitudinal profiling (profilograph), coring, augering, and subgrade sampling. The rod and level shots and profiling serve as an existing reference for elevation and slope in order to attain the thickness and slope of the newly constructed pavement layers. Cores were taken and used to examine the in situ surface layer and it's corresponding layer thickness. Augering also took place in order to collect base and subgrade samples. There was only a visual classification of the base material whereas the subgrade was analyzed by the Arkansas SHTD laboratory for Atterberg limits, natural moisture content, classification, and a sieve analysis. Pictures of the preconstruction activities can be found in appendix D.

CONSTRUCTION MONITORING

Construction of the SPS-2 test sections began in October 1995. Of the twelve test sections, three were constructed on areas that originally contained fill from the constructed roadway. Six test sections were constructed on areas that were cut during the original construction of the roadway and three were constructed at-grade.

During construction activities, it was noticed that the edge drains from the original highway had not been removed. After some discussion between the Arkansas State Highway and Transportation Department (Arkansas SHTD) and the contractor, it was decided that the edge drains were to be removed.

The trucks hauling concrete had a haul time of approximately 15 minutes (3 miles) to the project site. Also, the trucks carried 9 yards of Portland Cement Concrete (PCC) per load. Air entrainment and slump tests were performed at each of the twelve test sections. Table 3 shows the air and slump results for test sections 04, 08 and 12. These test sections were constructed with 900 pounds per square inch (PSI) strength concrete. The values listed in table 3 simply gives an indication of the air and slump data collected for the 900 PSI concrete.

Table 3. Slump and Air Results for Test Sections 04, 08 and 12

PSI	Section	Air (%)	Slump (in.)
900	04	6	1
900	08	5.6	1.25
900	12	4.9	1.5

On test section 08 at approximately station 2+50, the slip-form paver's augers discontinued to operate properly. After further inspection, it was determined that the dowel assembly at station 2+50 became entangled with one of the paver's vibrators. The contractor removed the affected area of concrete and installed a new dowel assembly. Other than a light rain during the paving of test section 03, there were no other irregularities throughout the completion of this project.

POSTCONSTRUCTION MONITORING

Following construction, cores were collected at the 14-day, 28-day and 1-year intervals. Rod and level shots were taken to get relative elevation changes (layer thickness) and a general profile of each test section. Further project monitoring will include manual distress surveys, Falling Weight Deflectometer (FWD) testing and longitudinal profiling for each test section. LTPP directives indicate that the distress surveys and profiling need to be performed every six months. FWD testing is to be performed annually.

SUMMARY

Having completed the construction of the SPS-2 project, it appears that the test sections within the project will contribute significantly to the evaluation of the rehabilitation processes for existing jointed concrete pavements. The test sections will continue to be monitored for surface distress, surface profile, and structural capacity. The results from the monitoring efforts will be compared against other similar projects throughout the country. This comparison will ultimately result in an increased knowledge and understanding of structural factors for rigid pavements.

APPENDIX A

PROJECT NOMINATION FORMS AND OTHER CORRESPONDENCE

Brent Rauhut Engineering Inc.

May 21, 1993

Mr. Monte Symons
FHWA-LTPP Division
Turner-Fairbank Hwy. Research Center
6300 Georgetown Pike, Room F-215
McLean, Virginia 21101

Subject: Arkansas SPS-2 Site Nomination

Dear Monte,

Enclosed you will find the SPS-2 candidate project nomination and information forms, and a set of plans to support Arkansas' nomination for an SPS-2 project. I have discussed this project at great length with Bill Staggs of the Arkansas State Highway and Transportation Department. He fully understands that the incentive funds for the experiment cell which this project fits into have been committed. Due to Arkansas' strong interest in the successful outcome of the LTPP Studies, and their general interest in concrete pavement construction, they have chosen to continue with the planning for this project construction, including the SPS-2 test sections.

I have reviewed the plan sheets provided by Arkansas, and have identified 16 potential test section locations along the proposed right-of-way. As you know, only 12 test section locations are required, so it can be assumed that there is ample space for location of test sections to satisfy the SPS-2 project requirements at this location.

One of my earlier concerns with this project was the variation of subgrade along the project length. As Mr. Staggs indicates in his transmittal letter, "recent borings were used to classify the subgrade material. Similar materials were found throughout the length of the proposed experiments."

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Based on the information provided, we feel that we are ready to support the nomination and acceptance of this potential SPS-2 project. Please note, this project is scheduled for bidding in August, so we need to expedite the review and comment back to Arkansas at your earliest convenience. I appreciate your consideration in this matter, and look forward to hearing from you soon.

Sincerely,

Mark P. Gardner
Project Engineer

MPG/mkd

cc w/Enc.: Shiraz Tayabji, PCS Law

cc: Mr. W.H. Reynolds, FHWA Arkansas Division
Mr. Bill Staggs, Arkansas Pavement Dept.
Mr. Homer Wheeler

SHEET A. SPS-2 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE ARKANSAS (05) SHRP SECTION NO 050200

GENERAL PROJECT INFORMATION

PROJECT LOCATION

ROUTE NUMBER 30

ROUTE SIGNING [✓] Interstate [ ] U.S. [ ] State [ ] County

Other

PROJECT LOCATION Start Milepost 110.44 End Milepost 106.0

Start Station 5960+00 End Station 5780+00

DIRECTION OF TRAVEL [ ] North B. [ ] South B. [✓] West B. [ ] East B.

PROJECT LOCATION DESCRIPTION Project Begins at the intersection of Hwy. 30 and Hwy. 70 and extends westbound approximately 4½ miles.

COUNTY SALINE

HIGHWAY AGENCY DISTRICT NUMBER 6

SHRP ENVIRONMENTAL ZONE

[ ] WET FREEZE [✓] WET NO-FREEZE [ ] DRY FREEZE [ ] DRY NO-FREEZE

SIGNIFICANT DATES

LATEST DATE OF APPROVAL NOTIFICATION FROM SHRP 6/15/93

CONTRACT LETTING DATE 8/93

ESTIMATED CONSTRUCTION START DATE 10/93

ESTIMATED DATE TEST SECTIONS OPENED TO TRAFFIC

ESTIMATED CONSTRUCTION COMPLETION DATE

PROJECT DESCRIPTION

PROJECT TYPE [ ] New Route [✓] Removal and Reconstruction [ ] Parallel Roadway

Other

FACILITY [✓] Divided [ ] Undivided NUMBER OF LANES (One Way) 2

DESIGN TRAFFIC DATA

ANNUAL AVERAGE DAILY TRAFFIC (Two Directions) 18,000

% HEAVY TRUCKS AND COMBINATIONS (Of AADT) 45

ESTIMATED 18K ESAL RATE IN STUDY LANE (1,000 ESAL/YR) 1,700

TOTAL DESIGN 18K ESAL APPLICATIONS IN DESIGN LANE

DESIGN PERIOD (Years) 20

SHEET B. SPS-2 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE ARKANSAS SHRP SECTION NO 050200

TEST SECTION LAYOUT

SUBGRADE CLASSIFICATION (use Table 4 word descriptions) Silty Clay

NUMBER OF TEST SECTIONS ENTIRELY ON: FILL 3 CUT 6

SHORTEST TRANSITION BETWEEN CONSECUTIVE TEST SECTIONS (Feet) 100

VERTICAL GRADE (Avg %) (+ upgrade; - downgrade) ±1.40

HORIZONTAL CURVATURE (Degrees) [] Tangent 0 °

COMMENTS ON DEVIATIONS FROM DESIRED SITE LOCATION CRITERIA

OTHER SHRP TEST SECTIONS

DOES AGENCY DESIGN CONFORM TO GPS-1, 2, 3, 4, OR 5 CRITERIA? [✓] YES [] NO

DISTANCE TO NEAREST GPS TEST SECTION ON SAME ROUTE (Miles) 98

TEST SECTION NUMBER OF NEAREST GPS SECTION 59110

SPS-2 SUPPLEMENTARY EXPERIMENTS

INTENT TO BUILT SPS-2 SUPPLEMENTARY EXPERIMENTS

SPS-2A: UNDOWELED JPCP [] YES [✓] NO

SPS-2B: JRCP [] YES [✓] NO

OTHER SUPPLEMENTAL TEST SECTIONS

IF SUPPLEMENTAL EXPERIMENTAL TEST SECTIONS ARE PROPOSED, COMPLETE THE FOLLOWING

TOTAL NUMBER OF SUPPLEMENTAL TEST SECTIONS

FACTORS TO BE INVESTIGATED

SHEET C. SPS-2 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE ARKANSAS SHRP SECTION NO 050200

AGENCY'S RIGID PAVEMENT STRUCTURE DESIGN FOR PROJECT

LAYER[1] NO.	LAYER[2] DESCRIPTION CODE	MATERIAL TYPE[3] CLASS CODE	THICKNESS[4] (INCHES)
1	SUBGRADE (7)	5 3	
2	0 6	2 5	4.0
3	0 5	2 3	4.0
4	0 3	0 5	9.0
5			
6			
7			
8			

STRUCTURAL DESIGN METHOD [] 1972 AASHTO [✓] 1986 AASHTO [] Modified AASHTO

Other

PAVEMENT TYPE [✓] Jointed Plain [] Jointed Reinforced [] Continuously Reinforced

JOINTED PAVEMENT JOINTS [✓] Perpendicular [] Skewed

[✓] Doweled [] Undoweled

Joint Spacing 45' Construction 15' Warping feet

DESIGN k VALUE (as modified) _____ pci SUBGRADE k VALUE _____ pci

AASHTO DESIGN RELIABILITY FACTORS R% 90 S_o 2.5

OUTSIDE SHOULDER TYPE

[] Turf [] Granular [✓] Asphalt Concrete [] Surface Treatment

[] PCC [] Tied PCC [] Curb and Gutter Other

OUTSIDE SHOULDER WIDTH (Feet) 10

SUBSURFACE EDGE DRAINS [✓] Yes [] No

NOTES

1. Layer 1 is the natural occurring subgrade soil. The pavement surface will have the largest assigned layer number.

2. Layer description codes:

Surface Layer 03	Base Layer 05	Subgrade 07
Subsurface HMAC .. 04	Subbase Layer 06	Embankment (Fill) 11

3. Refer to Tables 2 through 5 for material class codes.

4. If subgrade depth to a rigid layer is known, enter this depth for subgrade thickness, otherwise leave subgrade layer thickness blank.

SHEET D. SPS-2 CANDIDATE PROJECT NOMINATION AND INFORMATION FORM

STATE _____ SHRP SECTION NO _____

AGENCY'S FLEXIBLE PAVEMENT STRUCTURE DESIGN FOR PROJECT

LAYER[1] NO.	LAYER[2] DESCRIPTION CODE	MATERIAL TYPE[3] CLASS CODE	THICKNESS[4] (INCHES)	STRUCTURAL[5] COEFFICIENT
1	SUBGRADE (7)	__ __	__ __ __	_____
2	__ __	__ __	__ __.__	0.__ __
3	__ __	__ __	__ __.__	0.__ __
4	__ __	__ __	__ __.__	0.__ __
5	__ __	__ __	__ __.__	0.__ __
6	__ __	__ __	__ __.__	0.__ __
7	__ __	__ __	__ __.__	0.__ __
8	__ __	__ __	__ __.__	0.__ __
9	__ __	__ __	__ __.__	0.__ __

STRUCTURAL DESIGN METHOD [] 1972 AASHTO [] 1986 AASHTO [] Modified AASHTO

Other _____

AASHTO DESIGN RELIABILITY FACTORS R% _____ S_o _____

OUTSIDE SHOULDER TYPE

[] Turf [] Granular [] Asphalt Concrete [] Surface Treatment

[] PCC [] Curb and Gutter Other _____

OUTSIDE SHOULDER WIDTH (Feet) _____

SUBSURFACE EDGE DRAINS [] Yes [] No

NOTES

1. Layer 1 is the natural occurring subgrade soil. The pavement surface will have the largest assigned layer number.

2. Layer description codes:
   Surface Layer .... 03 Base Layer ..... 05 Subgrade 07
   Subsurface HMAC .. 04 Subbase Layer ..... 06 Embankment (Fill) 11

3. Refer to Tables 2 through 5 for material class codes.

4. If subgrade depth to a rigid layer is known, enter this depth for subgrade thickness, otherwise leave subgrade layer thickness blank.

5. Enter AASHTO structural layer coefficient value, as appropriately modified, used in pavement design or typical coefficient used by agency for this material. For the subgrade, enter either AASHTO soil support value or resilient modulus value (psi) used in design.

dj

RECEIVED NOV 20 1995

US Department of Transportation
Federal Highway Administration

Memorandum

6300 Georgetown Pike
McLean, Virginia 22101

HNR30-1175-350002

Subject: ACTION: Specific Pavement Study (SPS) - Arkansas Allocation of Incentive Funds

Date: NOV 15 1995

From: Director, Office of Engineering Research and Development

Reply to Attn of: HNR-30

NAME	INFO	ACTION	COPY
BR			
MQ	✓		✓
MR	✓		✓
File:			

To: Mr. Edward A. Wueste
Regional Federal Highway Administrator (HEO-06)
Fort Worth, Texas

We have received your request that incentive funds for an SPS-2 project be transferred from Louisiana Department of Transportation (DOT) to the Arkansas State Highway and Transportation Department (SHTD). The SPS-2 test site on I-30 south of Benton, Arkansas is the only project in this experimental cell of the Long-Term Pavement Performance (LTPP) program.

The inclusion of this site into the LTPP program was previously approved in the August 19, 1993 letter to Mr. Wesley Mendenhall. That letter indicated that Arkansas SHTD to be eligible for incentive funds associated with the SPS experiments. This memorandum authorizes the obligation of $50,000 for the SPS-2 site, for fiscal year 1996, of appropriation code 380 funds subject to the following:

1. Arkansas SHTD's continued agreement to conform to all of the design and participation requirements of the experiment.

2. Funds are to be used for reimbursement of costs associated with the SPS projects that include: (a) the purchase and/or installation of weigh-in-motion and/or automated vehicle classification equipment; (b) conventional sampling and materials testing; and/or C traffic control expenditures that are incurred as part of these data collection activities.

The Federal share for the first $50,000 of the above work is 100 percent. Costs in excess of $50,000 may be eligible for reimbursement as part of the regular Federal-aid construction and/or research programs. The appropriation code 380 and the Fiscal Management Information System and regular Federal-aid procedures are to be used to track expenditures. By copy of this memorandum, we are requesting the Program Analysis Division (HFS-30) to increase Arkansas' obligation limit by $50,000 for the 380 program. These 380 funds do not lapse but are expected to be used within 5 years of this authorization.

Information from this site and the other SPS-2 locations will contribute significantly to achieving the goals of the LTPP program. Participation of the Arkansas SHTD and the cooperation and assistance of the FHWA Region 6 and Arkansas Division staff in the LTPP program is appreciated.

Upon receipt of this memorandum, the Arkansas Division Office is requested to officially notify Arkansas SHTD of the transfer of funds for the SPS-2 site.

Any questions concerning the incentive funds should be directed to Mr. Monte Symons at (703) 285-2730. Questions related to the project status, testing, and/or coordination should be directed to either Mr. Symons or Mr. Morris Reinhardt, LTPP Southern Regional Engineer. Mr. Reinhardt can be reached at (512) 346-7477.

Charles J. Nemmers, P.E.

cc: Mr. Morris Reinhardt

FHWA:HNR-30:JKlemune:jl:285-2526\10/30/95
H:\DATA\HNR40\jklemune\fundak1.inc
cc:
HDA-AK
HFS-20, 30
HNG-40
HRD-10, R. Collins
R&D Reading
HNR-1, 2, 10, 20
Official File:MSymons 150.00
Arkansas SPS-2 File
Chron

APPENDIX B

MATERIALS SAMPLING AND TESTING PLAN

Brent Rauhut Engineering Inc.

30 January 1997

Mr. Boon Thian
Research Division
Arkansas State Highway &
Transportation Department
P.O. Box 2261
Little Rock, Arkansas 72203

Subject: Arkansas SPS-2 (050200) Material Sampling and Testing Plan

Dear Boon,

Enclosed is a revised plan for material sampling and testing activities for the Arkansas SPS-2 project, located on IH-30 in Hot Spring County, Arkansas. This plan was revised to reflect changes in the project layout, the resulting changes in the sampling area numbers, sample designations, and coring locations. This plan also reflects any other changes since the January 1994 revision of this document.

If you have any questions or comments regarding the information provided in the materials sampling and testing plan, do not hesitate to call me.

Sincerely,

Mark P. Gardner, P.E.
Project Engineer, SRCO

MPG:dmj

Enclosure: As stated.

c.w/Enc: Zane Dunnam, SRCO
Jon Peacock, SRCO

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MATERIAL SAMPLING
AND
TESTING PLAN

ARKANSAS SPS-2 PROJECT 050200
IH-30 WBL, HOT SPRING COUNTY, ARKANSAS

PREPARED BY:

BRENT RAUHUT ENGINEERING INC.
SHRP SOUTHERN REGION COORDINATION OFFICE
8240 MOPAC, SUITE 220
AUSTIN, TEXAS 78759

REVISED JANUARY 1997

MATERIAL SAMPLING AND TESTING PLAN
ARKANSAS SPS-2, IH-30 WBL
HOT SPRING COUNTY, ARKANSAS

INTRODUCTION

As part of their participation in the FHWA long term pavement performance studies, the State of Arkansas has elected to construct an SPS-2 project to study the structural factors for rigid pavements. This project will consist of multiple test sections with similar details and materials along the stretch of IH-30, in the westbound lane, in Hot Spring County, Arkansas. It is the intent of this document to provide a plan for the material sampling and field testing, and a listing of the laboratory materials testing that will occur as a part of this project.

This document has been prepared in accordance with guidelines provided by the Federal Highway Administration (FHWA), entitled "Specific Pavement Studies Material Sampling and Testing Requirements for Experiment SPS-2, Strategic Study of Structural Factors for Rigid Pavements (Draft), September 1993". Recognizing the apparent variability in the construction of roadway projects, the goal of this effort is to develop a sampling and testing plan for the project materials that will be consistent with other projects in this experiment, and therefore make the information obtained suitable for analysis.

The objective of the SPS-2 study is to more precisely determine the relative influence of strategic factors on the performance of rigid pavements. The factors addressed in this study include drainage, lane width, base type and thickness, and portland cement concrete (PCC) surface thickness. Arkansas's involvement in the study will provide critical information in the wet, no freeze environmental zone, on a fine-grained subgrade soil. The data produced by this experiment will be used to evaluate existing design methods and performance equations. The interaction of the factors previously discussed will be determined in combination with the effect of environmental region and soil type. The effects of these factors will be studied under realistic performance conditions with significant materials and construction control. Herein lies the need for a sampling and testing plan, provided in the following pages.

This sampling and testing plan has been developed by Brent Rauhut Engineering Inc., the Southern Region Coordination Office under contract to the Federal Highway Administration. If, during the construction activities, any questions arise regarding the sampling and/or testing to be conducted, one should first coordinate these questions with the Arkansas Highway and Transportation Department, who may refer them to the Southern Region Coordination Office.

This document has been prepared in three distinct parts, each covering a particular portion of the sampling and testing activities. The three sections are:

A. General Layout Information
B. Material Sampling and Testing
C. Laboratory Materials Testing

The General Layout section provides tables and figures of the layout showing the test sections along the roadway and the layer structure of each test section.

The Material Sampling and Testing section defines in detail all of the material samples to be obtained, testing to be performed in the field, and provides an itemized list showing where each sample is to be shipped for laboratory testing.

Finally, the Laboratory Material Testing section outlines the laboratory material test program to be conducted and provides tracking charts showing the testing to be performed on each sample of each material in each laboratory.

SECTION A

GENERAL LAYOUT INFORMATION

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GENERAL LAYOUT INFORMATION

This section of the plan provides a description of the SPS-2 project in terms of the location of the test sections along the roadway. Table A.1 lists the test sections in order of increasing station, providing an indication of the cross-section of each test section. Table A.2 tracks the test sections from the beginning of the first section at Station 5960 + 00 to the end of the last section at Station 5825 + 50. This table indicates transition areas between sections and the variation of pavement layer materials within these transitions.

Figure A.1 shows a typical section layout, including the monitoring length, sampling areas outside of the monitoring area, but of the same construction, and transition areas to adjacent sections.

Finally, Figure A.2 depicts the layout of the test sections along the roadway and shows the variation of material type and layer thickness.

The referenced project stationing was provided by the Arkansas SHTD. If there are significant changes in alignment or stationing, this plan should be reviewed closely to determine if revisions are warranted.

TABLE A-1. TEST SECTION LAYOUT

Section (Cell ID)	Cross Section	Lane Width	Begin Station	End Station
050203 (03)	11″ PCC (550 psi)	12′	5960 + 00	5954 + 00
	6″ DGAB			
050211 (011)	11″ PCC (900 psi)	12′	5952 + 00	5946 + 00
	4″ PATB			
	4″ DGAB			
050202 (02)	8″ PCC (900 psi)	12′	5934 + 50	5928 + 50
	6″ DGAB			
050210 (010)	8″ PCC (900 psi)	12′	5924 + 50	5918 + 50
	4″ PATB			
	4″ DGAB			
050207 (07)	11″ PCC (550 psi)	12′	5911 + 00	5905 + 00
	6″ LCB			
050206 (06)	8″ PCC (900 psi)	12′	5902 + 00	5896 + 00
	6″ LCB			
050205 (05)	8″ PCC (550 psi)	14′	5887 + 00	5881 + 00
	6″ LCB			
050208 (08)	11″ PCC (900 psi)	14′	5878 + 00	5872 + 00
	6″ LCB			

TABLE A-1. PROPOSED TEST SECTION LAYOUT (Continued)

Section (Cell ID)	Cross Section	Lane Width	Begin Station	End Station
050212 (012)	11″ PCC (900 psi)	14′	5871 + 00	5865 + 00
	4″ PATB			
	4″ DGAB			
050204 (04)	11″ PCC (900 psi)	14′	5863 + 00	5857 + 00
	6″ DGAB			
050201 (01)	8″ PCC (550 psi)	14′	5853 + 00	5847 + 00
	6″ DGAB			
050209 (09)	8″ PCC (550 psi)	14′	5831 + 50	5825 + 50
	4″ PATB			
	4″ DGAB			

TABLE A-2. ORDERING OF SECTIONS ALONG CENTER LINE STATIONING

Begin Sta.	End Sta.	Section ID	Lane Width (Ft.)	Thickness (In.)			
				PCC Surface	LCB	PATB	DGAB
5960+00	5954+00	050203	12	11 (550 psi)	0	0	6
5954+00	5953+00	Transition	12	11 (550 psi)	0	0-4	6-4
5952+00	5946+00	050211	12	11 (550 psi)	0	4	4
5947+00	5945+00	Transition	12	11-8 (550-900 psi)	0	4-0	4-6
5934+50	5928+58	050202	12	8 (900 psi)	0	0	6
5939+00	5937+00	Transition	12	8 (900 psi)	0	0-4	6-4
5924+50	5918+50	050210	12	8 (900 psi)	0	4	4
5931+00	5921+00	Transition	12	8-11 (900-550 psi)	0-6	4-0	4-0
5911+00	5905+00	050207	12	11 (550 psi)	6	0	0
5915+00	5911+00	Transition	12	11-8 (550-900 psi)	6	0	0
5902+00	5896+00	050206	12	8 (900 psi)	6	0	0
5905+00	5887+00	Transition	12	8 (900-550 psi)	6	0	0
5887+00	5881+00	050205	14	8 (550 psi)	6	0	0
5881+00	5880+00	Transition	12-14	8-11 (550-900 psi)	6	0	0
5878+00	5872+00	050208	14	11 (900 psi)	6	0	0
5874+00	5872+00	Transition	14	11 (900 psi)	6-0	0-4	0-4
5871+00	5865+00	050212	14	11 (900 psi)	0	4	4
5866+00	5865+00	Transition	14	11 (900 psi)	0	4-0	4-6
5863+00	5857+00	050204	14	11 (900 psi)	0	0	6
5859+00	5855+00	Transition	14	11-8 (900-550 psi)	0	0	6
5853+00	5847+00	050201	14	8 (550 psi)	0	0	6
5849+00	5830+00	Transition	14	8 (550 psi)	0	0-4	6-4
5831+50	5825+50	050209	14	8 (550 psi)	0	4	4

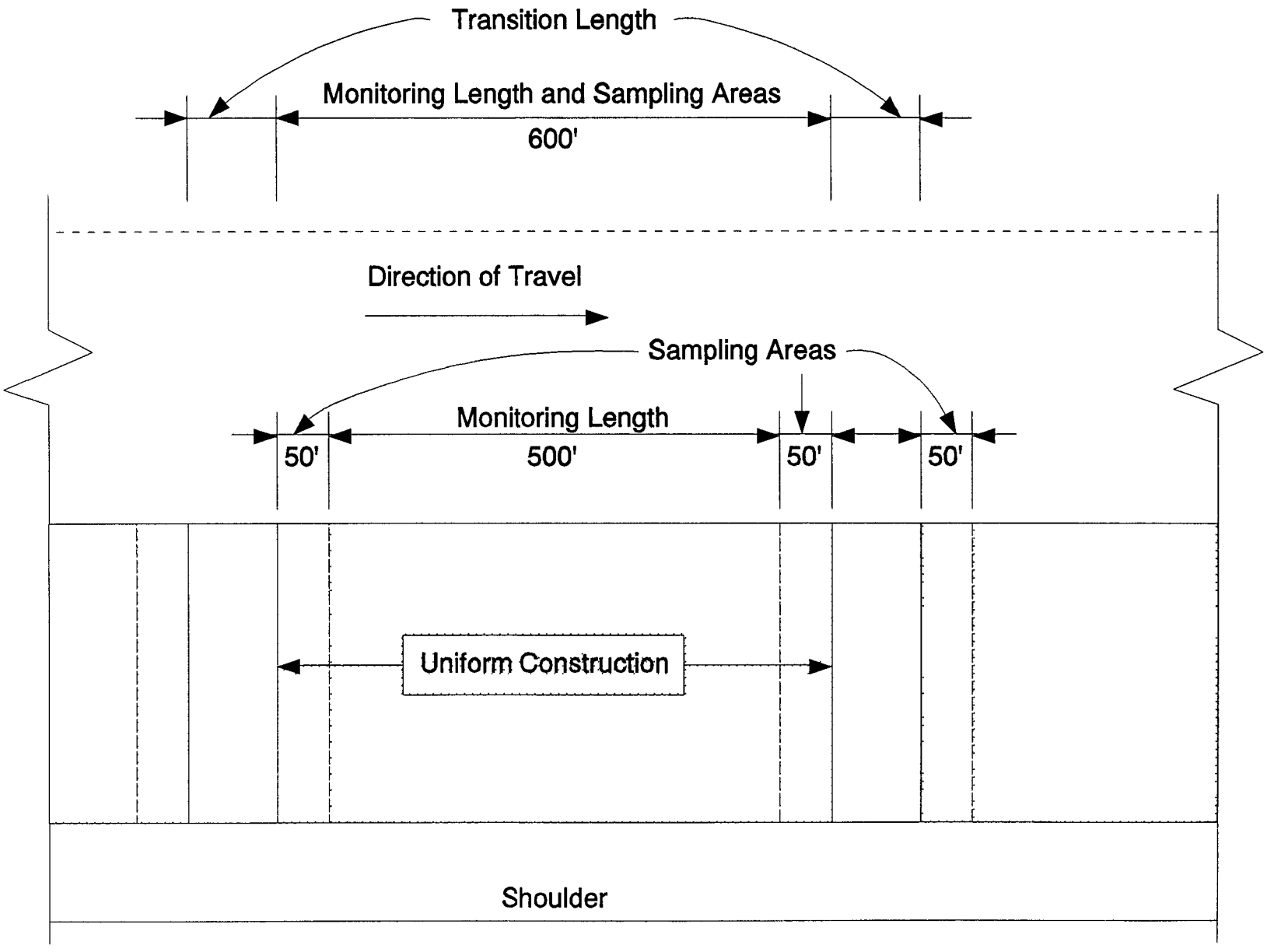


FIGURE A-1. TYPICAL SECTION LAYOUT

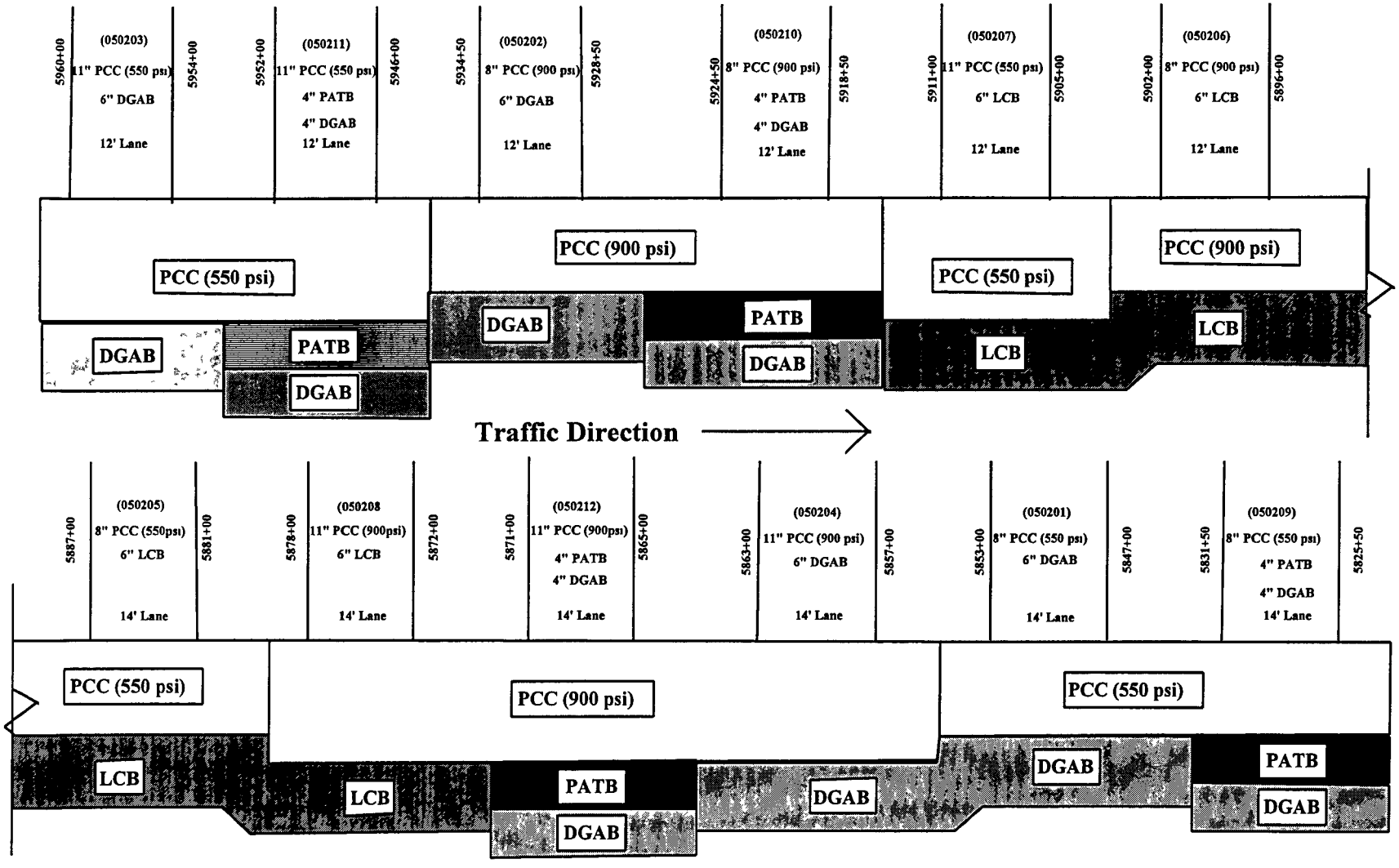


FIGURE A-2. LAYOUT OF TEST SECTIONS

SECTION B

MATERIAL SAMPLING AND TESTING

SECTION B

MATERIAL SAMPLING AND TESTING

This section of the plan provides for the material sampling and testing activities that occur in the field. Tables B.1 and B.2 provide the scope of the material sampling and testing activities, respectively. Table B.3 describes special sampling needs for the Materials Reference Library and provides contact information to coordinate sample shipping arrangements.

Figures B.1 through B.16 show the locations and numbering scheme for the many samples and tests scheduled. Figures B.2 through B.4 show the sampling and testing to occur for each stage of the paving, while Figures B.5 through B.16 show all sampling and testing scheduled for each test section.

Tables B.4 and B.5 list samples to be shipped to the state laboratory (or their designee), and those samples to be shipped to the FHWA/LTPP testing contractor, respectively. Finally, Table B.6 lists cores to be shipped from the state laboratory (or their designee) to the FHWA Research Laboratory, after performance of core examination and thickness tests. At the time this document was being prepared, this contractor was not yet named. The identity and location of the FHWA/LTPP lab will be provided once the final selection has been made.

TABLE B-1. MATERIAL SAMPLING REQUIREMENTS

Material And Sample Description	Number Of Samples	Sample Location
Portland Cement Concrete		
Coring - 4″ Diam. Cores	98	C1-C98
Bulk Sampling (Fresh PCC - Molded Into Test Specimens)	6	B15-B20 - From Site
Lean Concrete Base		
Coring - 4″ Diam. Cores	24	C34-36, C38-C40, C42-C47, C50-C52, C54-C56, C58-C60, C62-C64
Bulk Sampling - (Fresh LCB - Molded Into Test Specimens)	2	B13, B14 - From Site
Permeable Asphalt Treated Base		
Bulk Sampling (100 Lbs. Per Sample, Uncompacted)	3	B10-B12 - From Paver
Dense Graded Aggregate Base		
Bulk Sampling (400 lb. per sample)	3	B7-B9
Moisture Content Samples	3	B7-B9
Subgrade		
Thin-Walled Tube Sampling (*2 tubes/boring)	36*	A1-A18
Splitspoon Sampling (To Replace Any Thin-Walled Tube Samples That Cannot Be Obtained)		A1-A18
Bulk Sampling (400 Lbs. Each Sample)	6	B1-B6
Moisture Content Samples	6	B1-B6

TABLE B-2. FIELD TESTING REQUIREMENTS

Material	Number Of Tests	Location Designation
Portland Cement Concrete No Field Testing Conducted		
Lean Concrete Base No Field Testing Conducted		
Permeable Asphalt Treated Base No Field Testing Conducted		
Dense Graded Aggregate Base In Situ Density, Moisture Content (Nuclear Gauge)	24	T37-T60
Subgrade In Situ Density, Moisture Content (Nuclear Gauge)	36	T1-T36
Shoulder Auger Probe	12	S1-S12

TABLE B-3. MATERIAL SAMPLING FOR THE MATERIALS REFERENCE LIBRARY

Material And Sample Description	Number Of Samples	Sample Location
Portland Cement - (5-Gallon Container Each Type Used - Sealed In Heavy Plastic Bag In Can)	1	Plant
Fly Ash (If Used) - (5-Gallon Container - Sealed In Heavy Plastic Bag in Can)	1	Plant
Additives - (1-Quart Jar Each Type Used)	1	Plant
Fine Aggregate - (5-Gallon Containers)	4	Plant
Coarse Aggregate - (5-Gallon Containers)	4	Plant

NOTE 1: If different materials are used for different mixes, then provide the designated amount for each mix. Materials should be obtained for the 550 psi and 900 psi mixes and LCB.

NOTE 2: Containers for this sampling will be provided by the LTPP Materials Reference Library (MRL). Scheduling information including (1) date containers needed, (2) state agency contact name, and (3) shipping address and telephone number should be provided to the MRL Contractor as soon as it is feasible to do so. The contact name, address and telephone number for the MRL Contractor are as follows:

Mr. Rod Soule
Materials Reference Library
Nichols Consulting Engineers, Chtd.
1885 So. Arlington, Suite 111
Reno, Nevada 89509
(702) 329-4955

These samples should be labeled according to applicable guidelines provided elsewhere and shipped to the MRL Contractor upon completion of sampling activities.

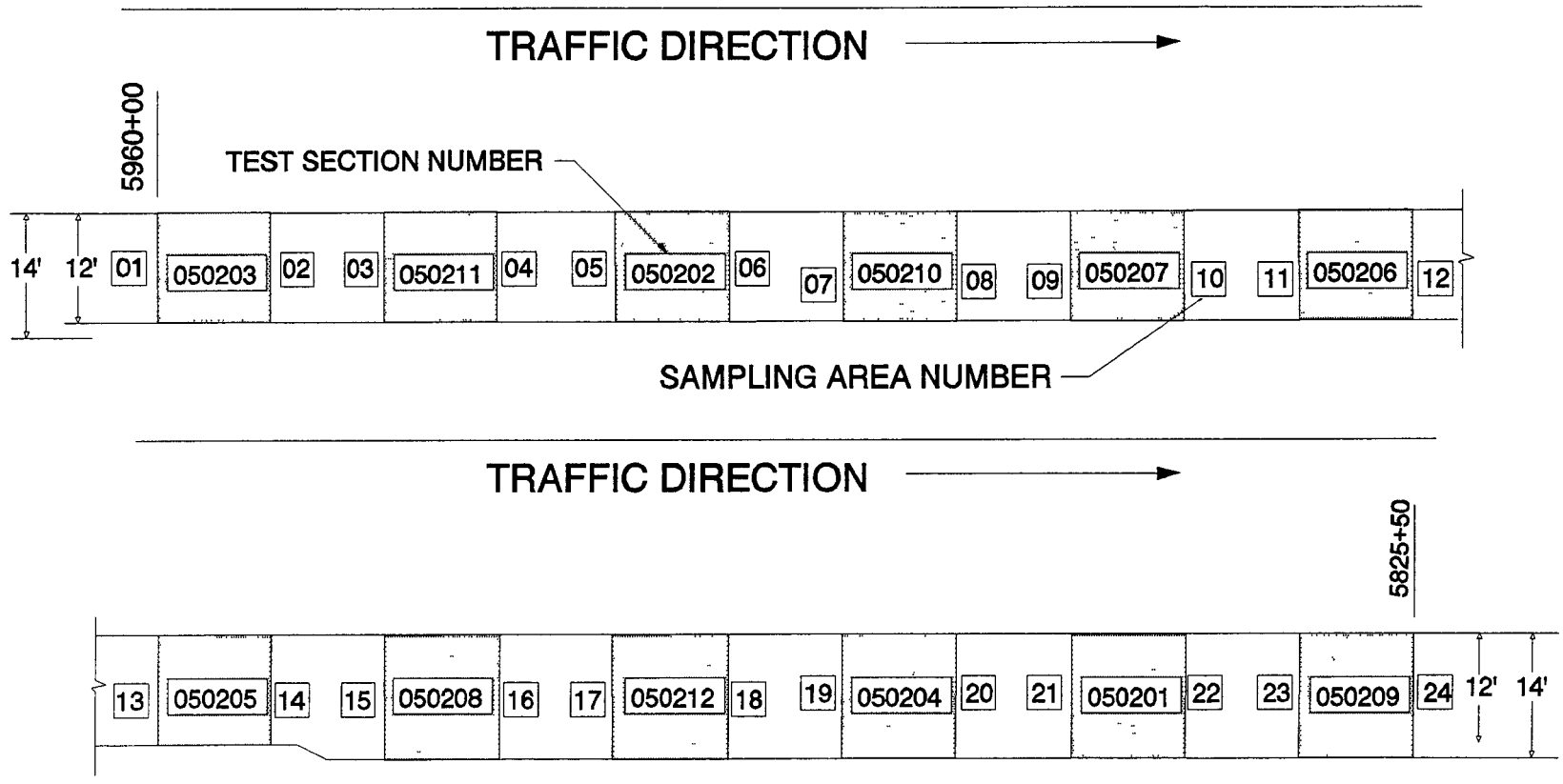
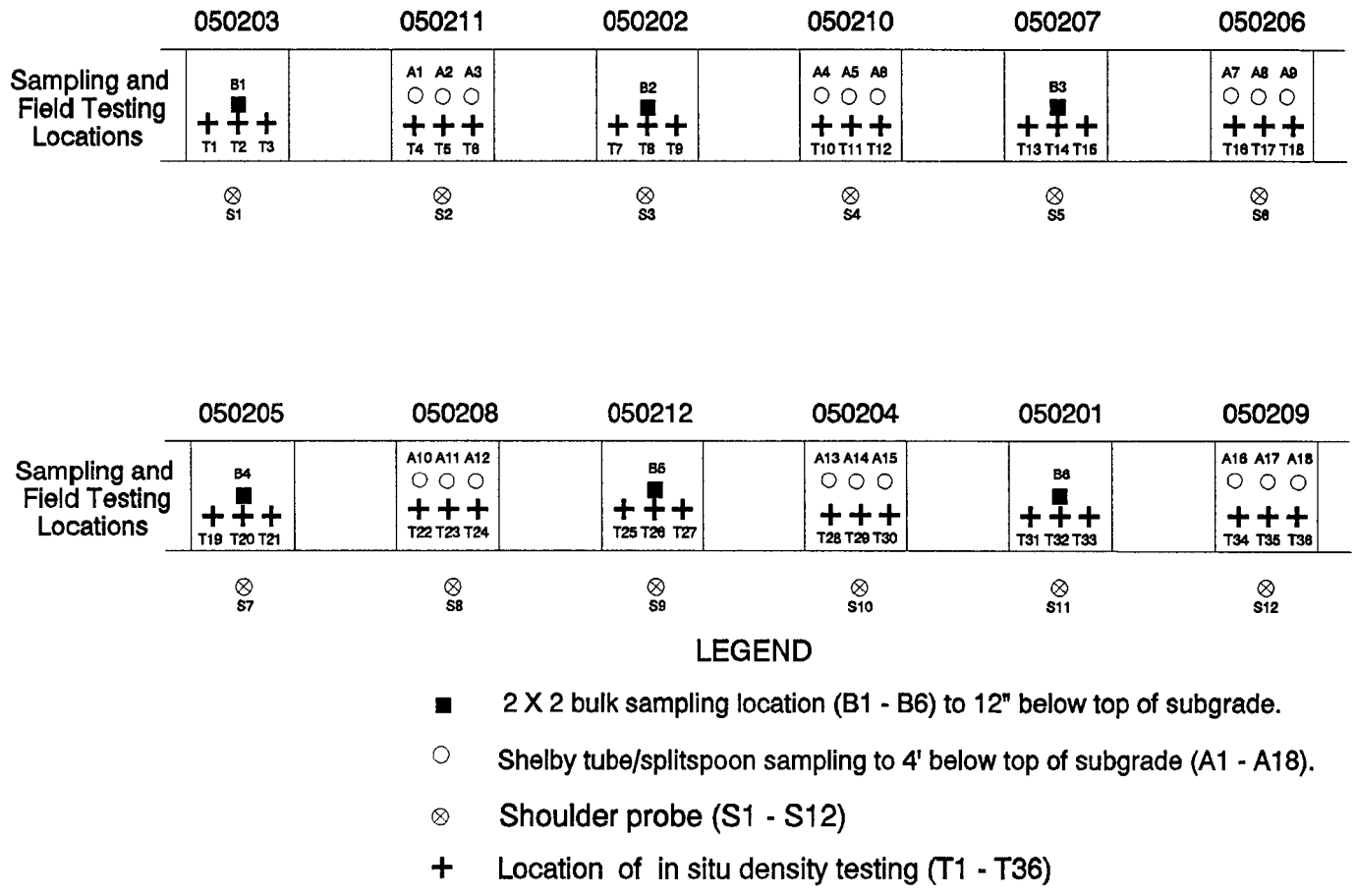


FIGURE B-1. SITE LAYOUT WITH SAMPLING AREAS



LEGEND

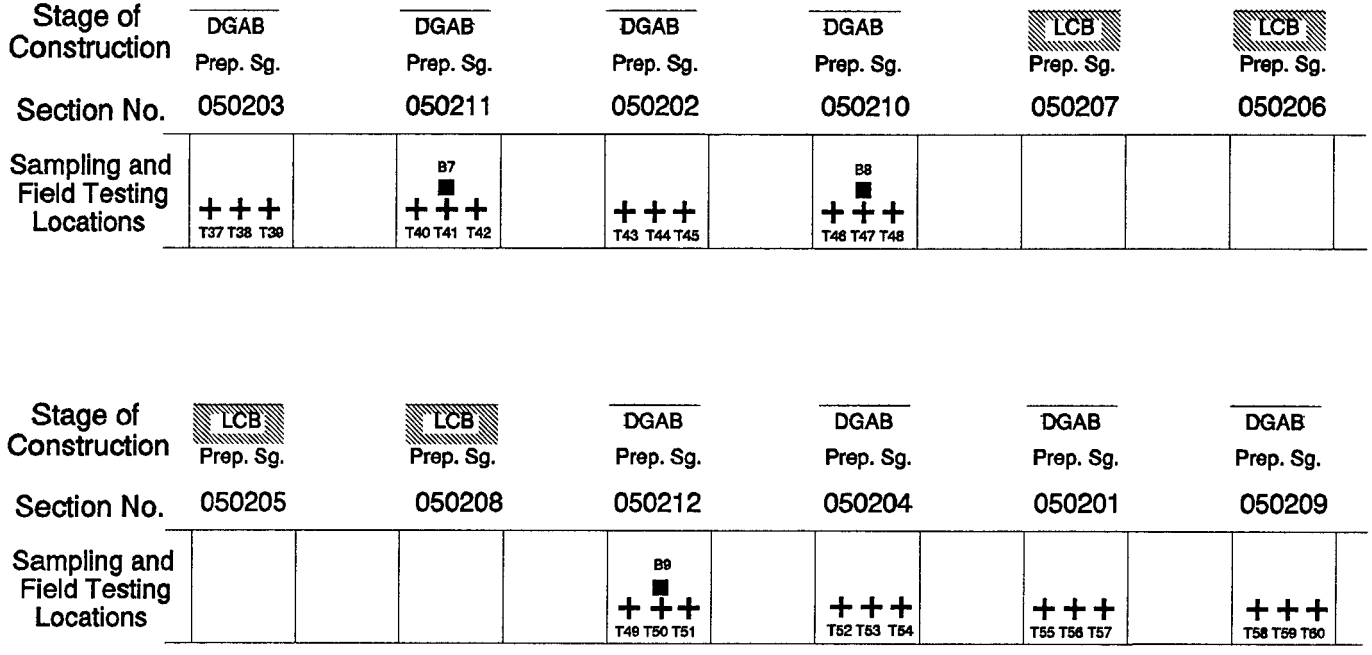
■ 2 X 2 bulk sampling location (B1 - B6) to 12" below top of subgrade.

○ Shelby tube/splitspoon sampling to 4' below top of subgrade (A1 - A18).

⊗ Shoulder probe (S1 - S12)

+ Location of in situ density testing (T1 - T36)

FIGURE B-2. SAMPLING AND TESTING LOCATIONS FOR SUBGRADE



LEGEND

+ Location of in situ density testing (T37 - T60)

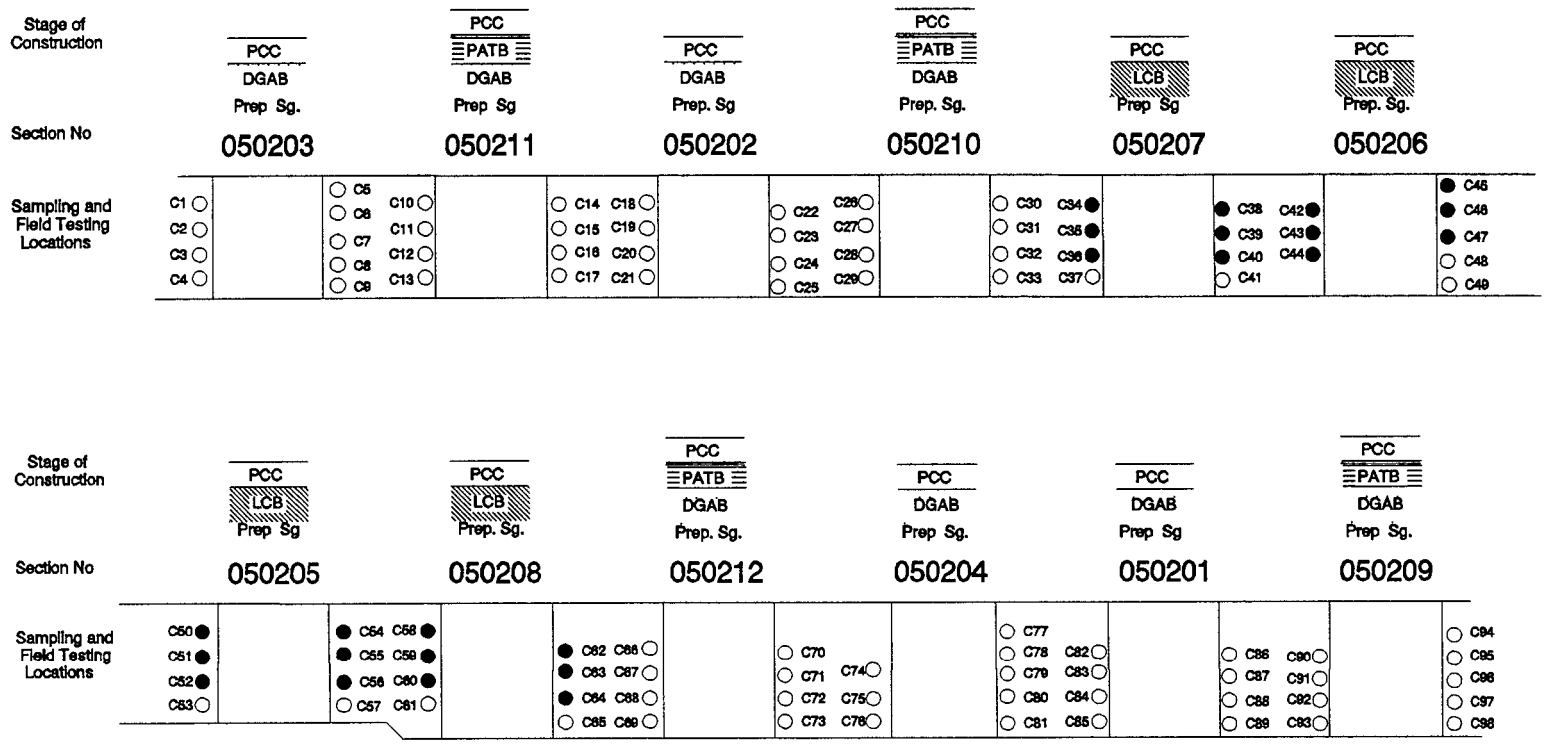
■ Location of bulk sampling of DGAB (B7 - B9)

Prep. Sg. - Prepared Subgrade

LCB - Lean Concrete Base

DGAB - Dense Graded Aggregate Base

FIGURE B-3. SAMPLING AND TESTING LOCATIONS FOR DGAB



LEGEND

○ 4" OD Core of Finished PCC Surface Only (C1-C33, C37, C41, C48-C49, C53, C57, C61, C65-C98)

● 4" OD Core of Finished PCC and Bound Layers(C34-C36, C38-C40, C42-C44, C45-C47, C50-C52, C54-C56, C58-C60, C62-C64)

Prep. Sg. - Prepared Subgrade

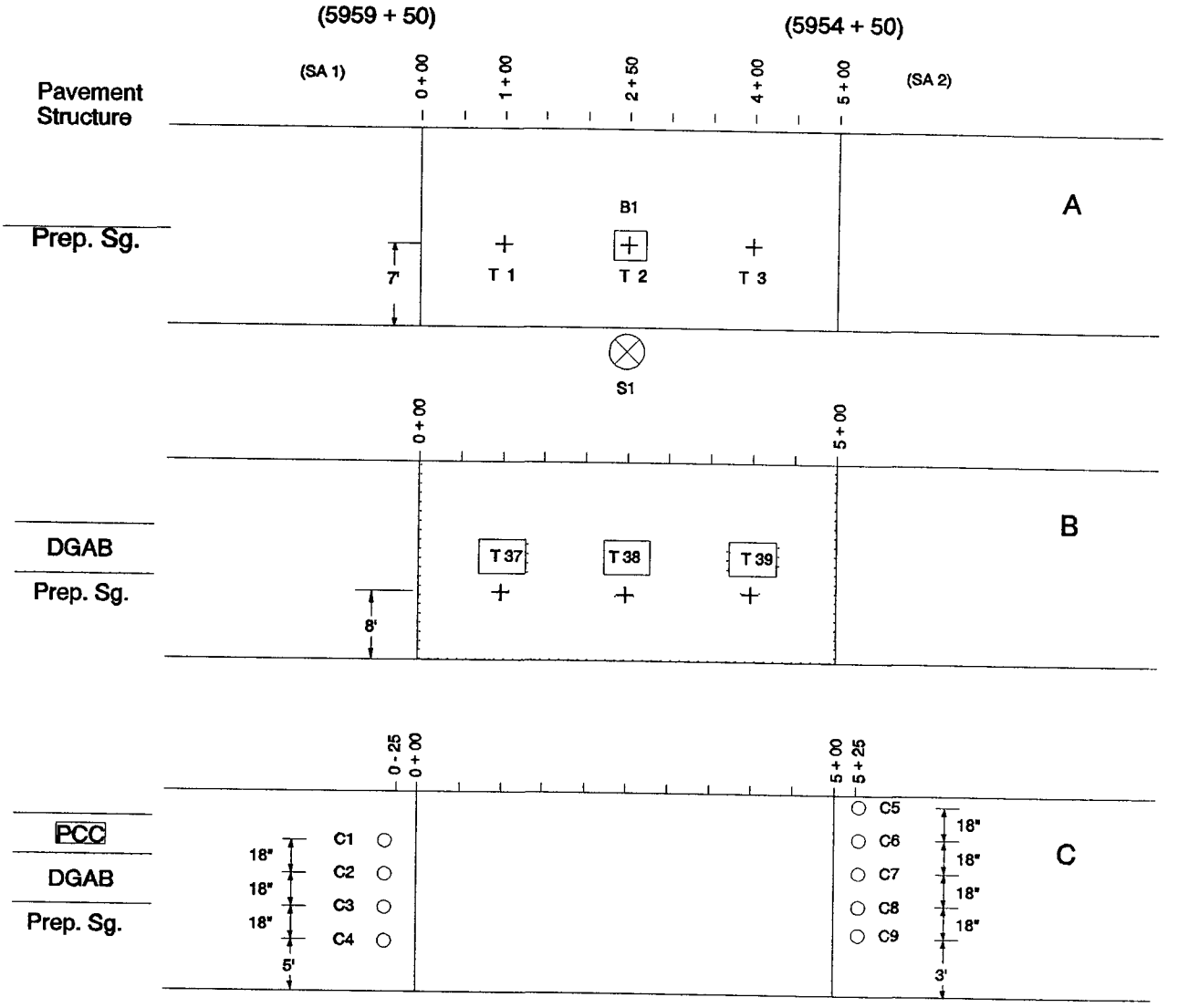
PATB - Permeable Asphalt Treated Base

DGAB - Dense Graded Aggregate Base

LCB - Lean Concrete Base

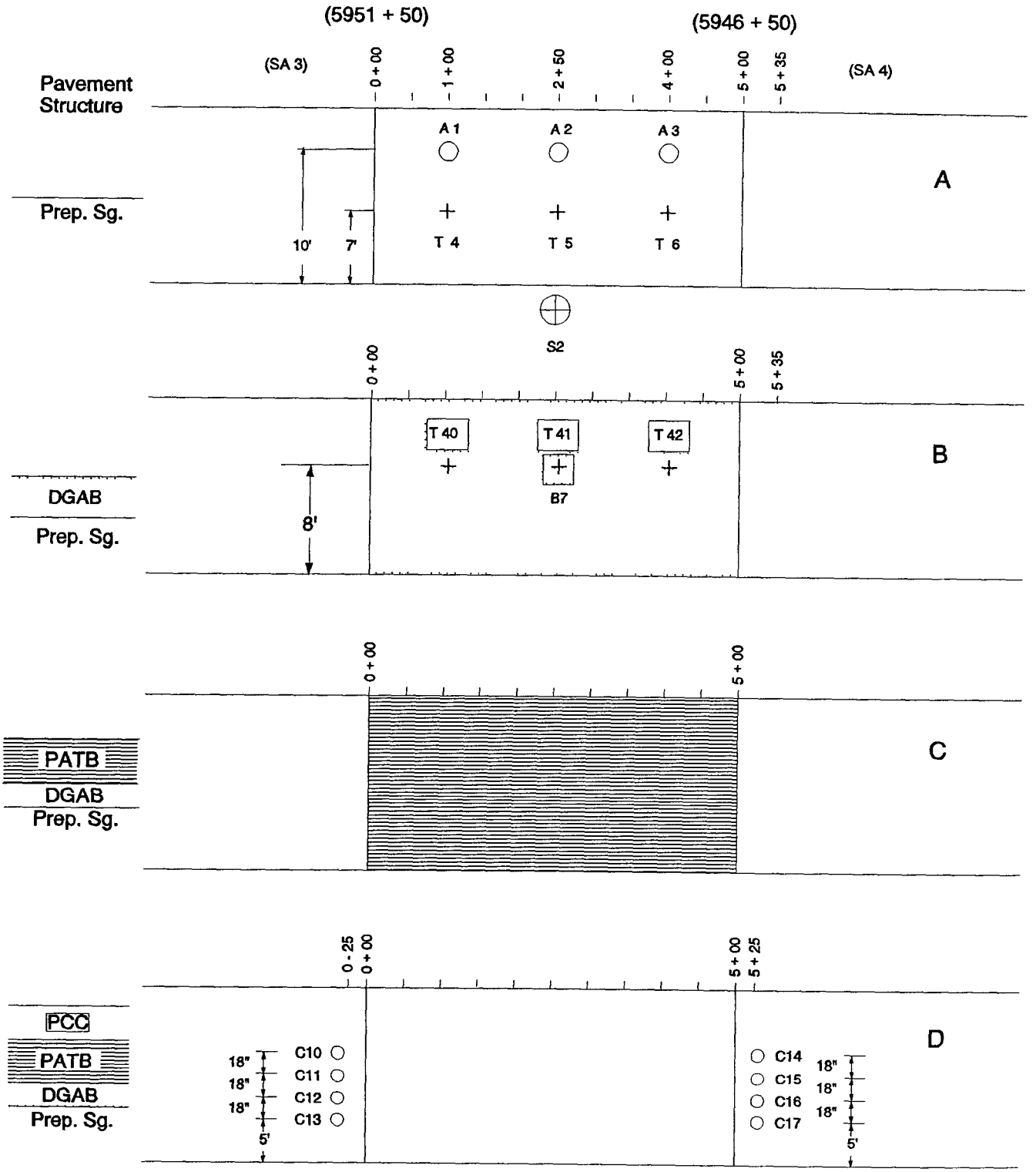
PCC - Portland Cement Concrete Surface

FIGURE B-4. SAMPLING AND TESTING LOCATIONS FOR PCC SURFACE



A Testing on prepared Subgrade (T1 - T3, S1)
B Testing on compacted DGAB (T37 - T39)
C Coring on finished PCC Surface (C1 - C9)

FIGURE B-5. SAMPLING AND TESTING PLAN FOR TEST SECTION 050203



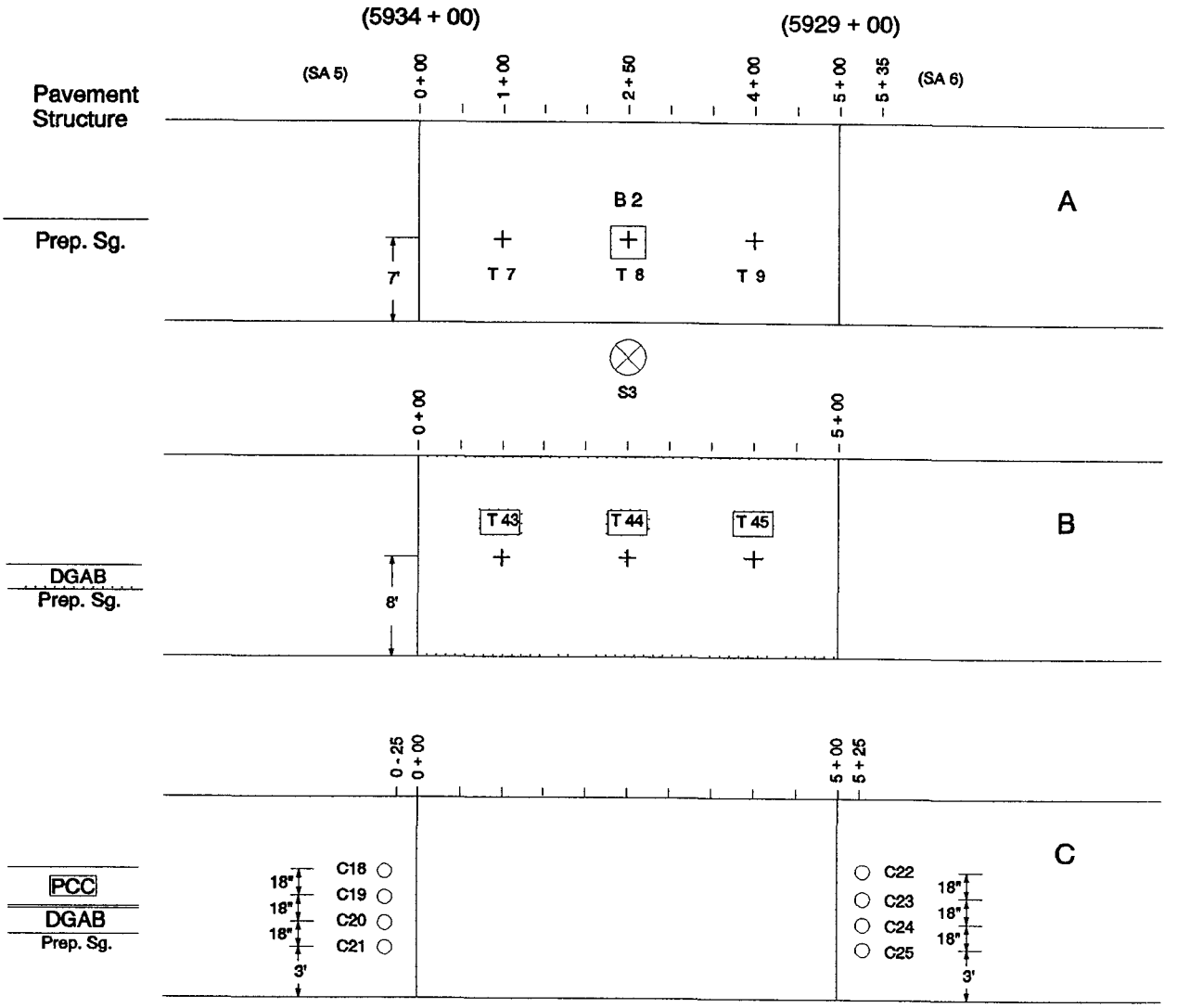
A Testing on prepared Subgrade (A1-A3, T4 - T6, S2)

B Testing on compacted DGAB (T40 - T42, B7)

C No testing on PATB

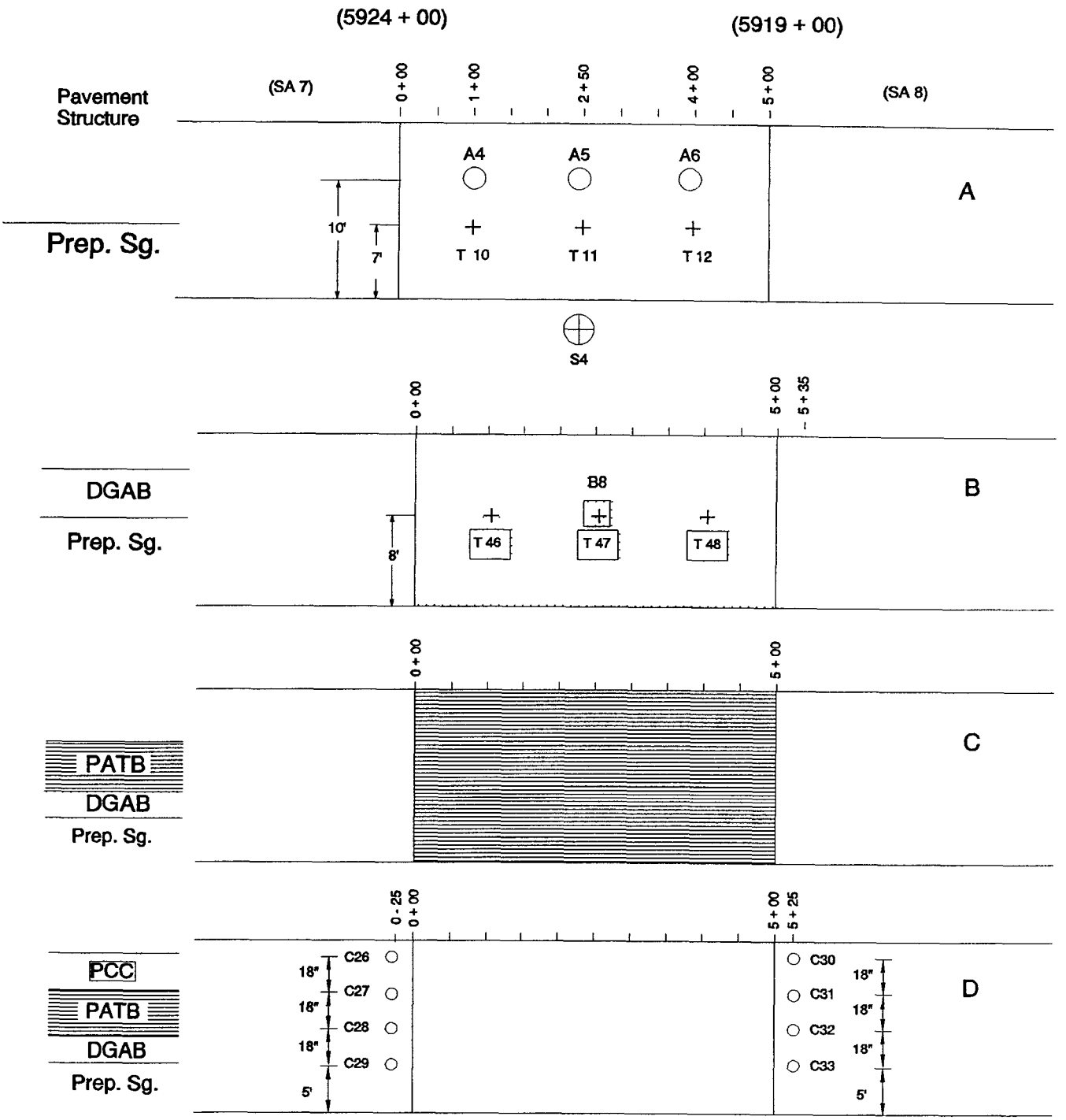
D Coring of finished PCC Surface (C10 - C17)

FIGURE B-6. SAMPLING AND TESTING PLAN FOR TEST SECTION 050211



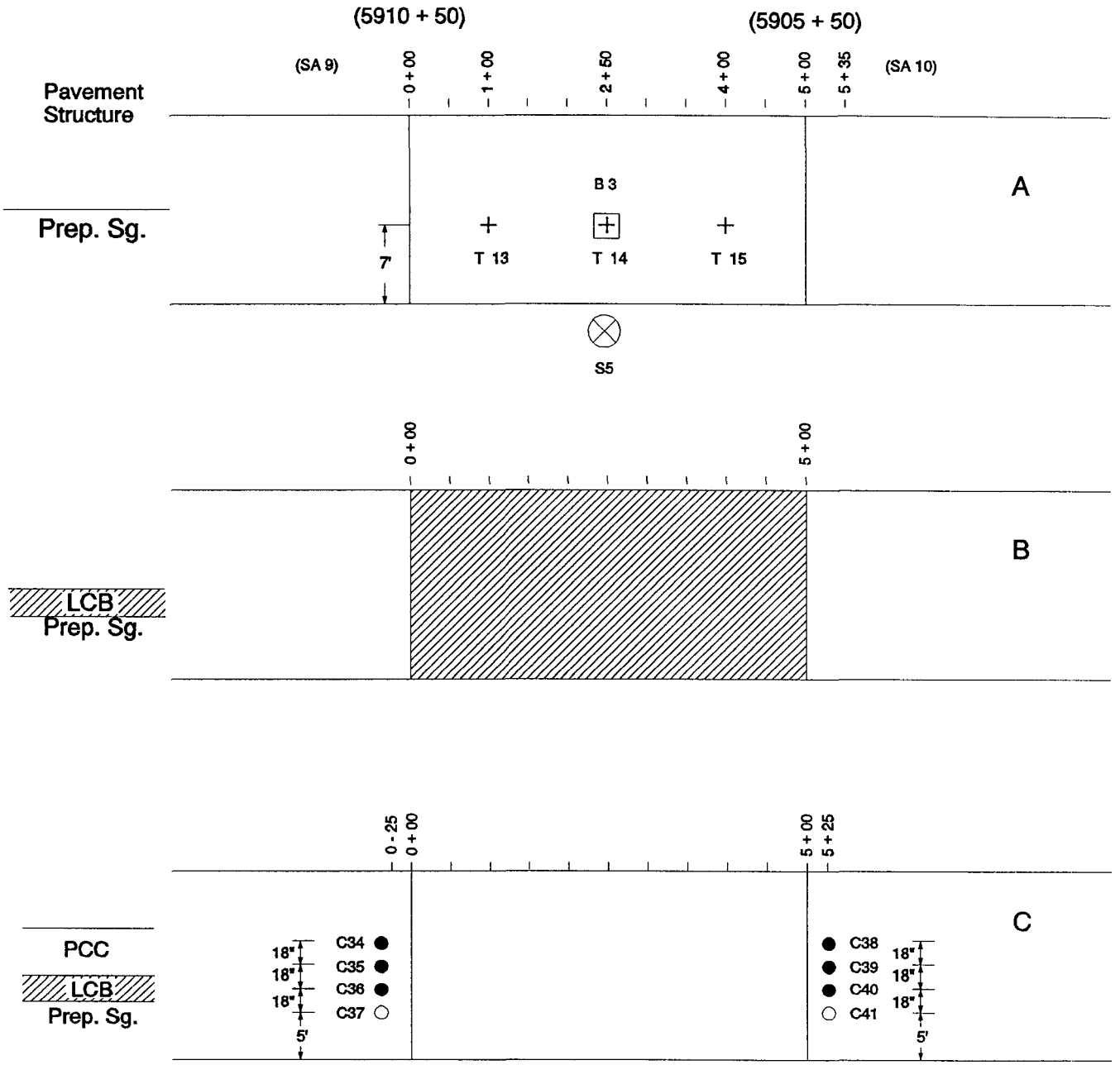
A Testing on prepared Subgrade (T7 - T9, B2, S3)
B Testing on compacted DGAB (T43 - T45)
C Coring on finished PCC Surface (C18 - C25)

FIGURE B-7. SAMPLING AND TESTING PLAN FOR TEST SECTION 050202



A Testing on prepared Subgrade (T10 - T12, A4 - A6, S4)
B Testing on compacted DGAB (T46 - T48, B8)
C No testing on PATB
D Coring on finished PCC Surface (C26 - C33)

FIGURE B-8. SAMPLING AND TESTING PLAN FOR TEST SECTION 050210



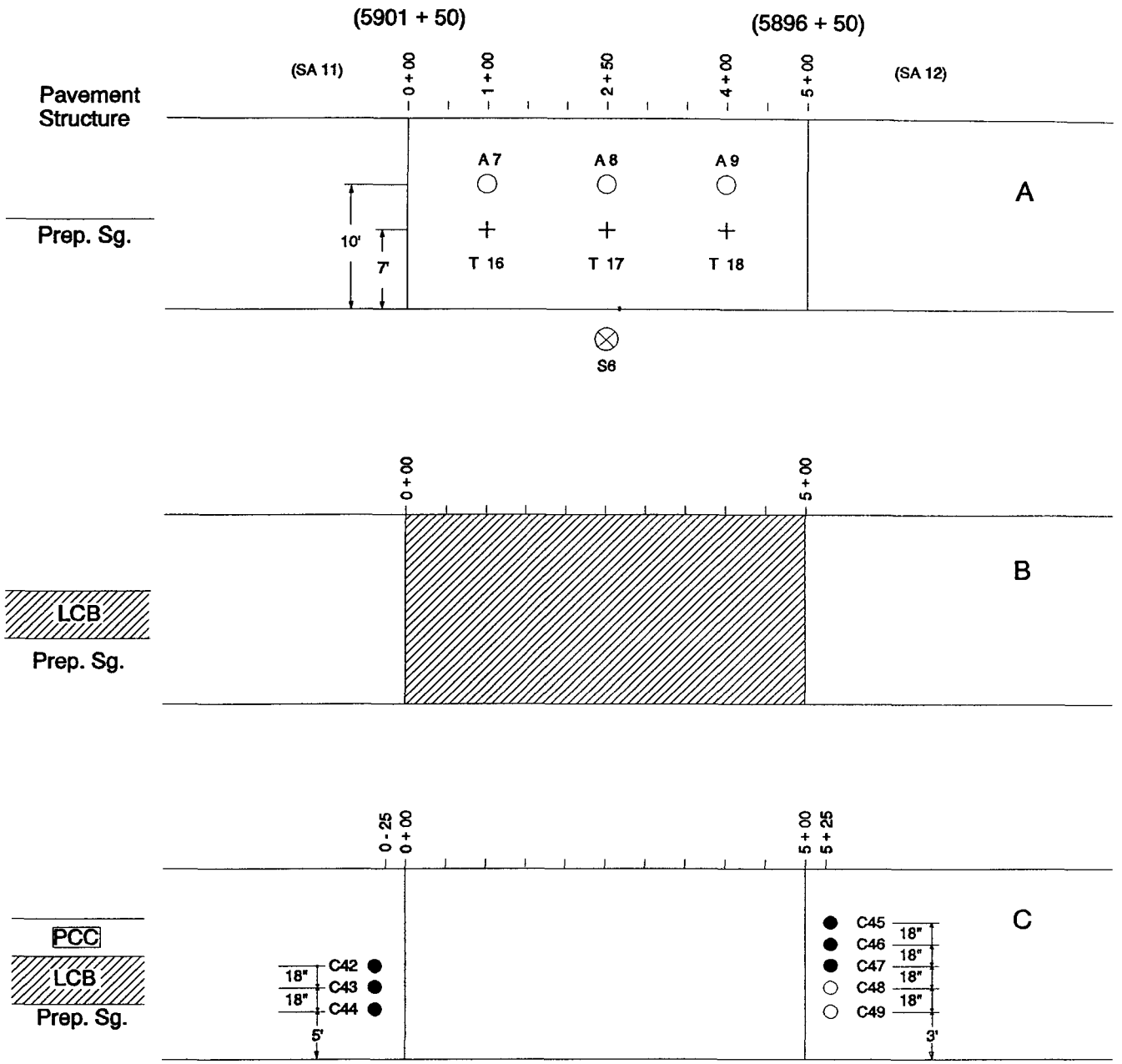
A Testing on prepared Subgrade (T13 - T15, B3, S5)

B No testing on LCB

C Coring on finished PCC Surface (C37, C41)

Coring PCC Surface and bound layers (C34 - C36, C38 - C40)

FIGURE B-9. SAMPLING AND TESTING PLAN FOR TEST SECTION 050207



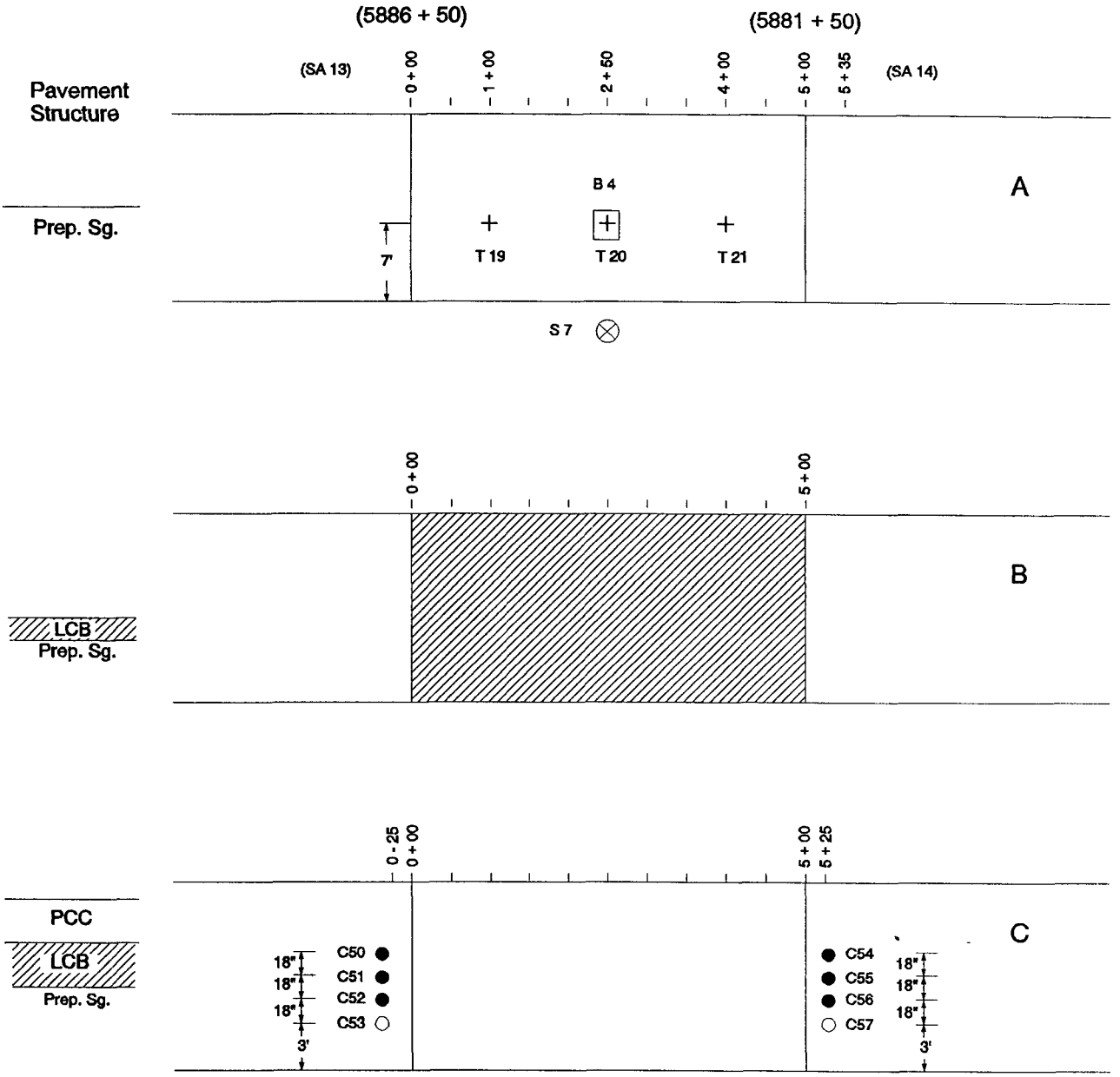
A Testing on prepared Subgrade (T16 - T18, A7 - A9, S6)

B No Testing on LCB

C Coring on finished PCC Surface (C48 - C49)

Coring PCC Surface and bound layers (C42 - C47)

FIGURE B-10. SAMPLING AND TESTING PLAN FOR TEST SECTION 050206



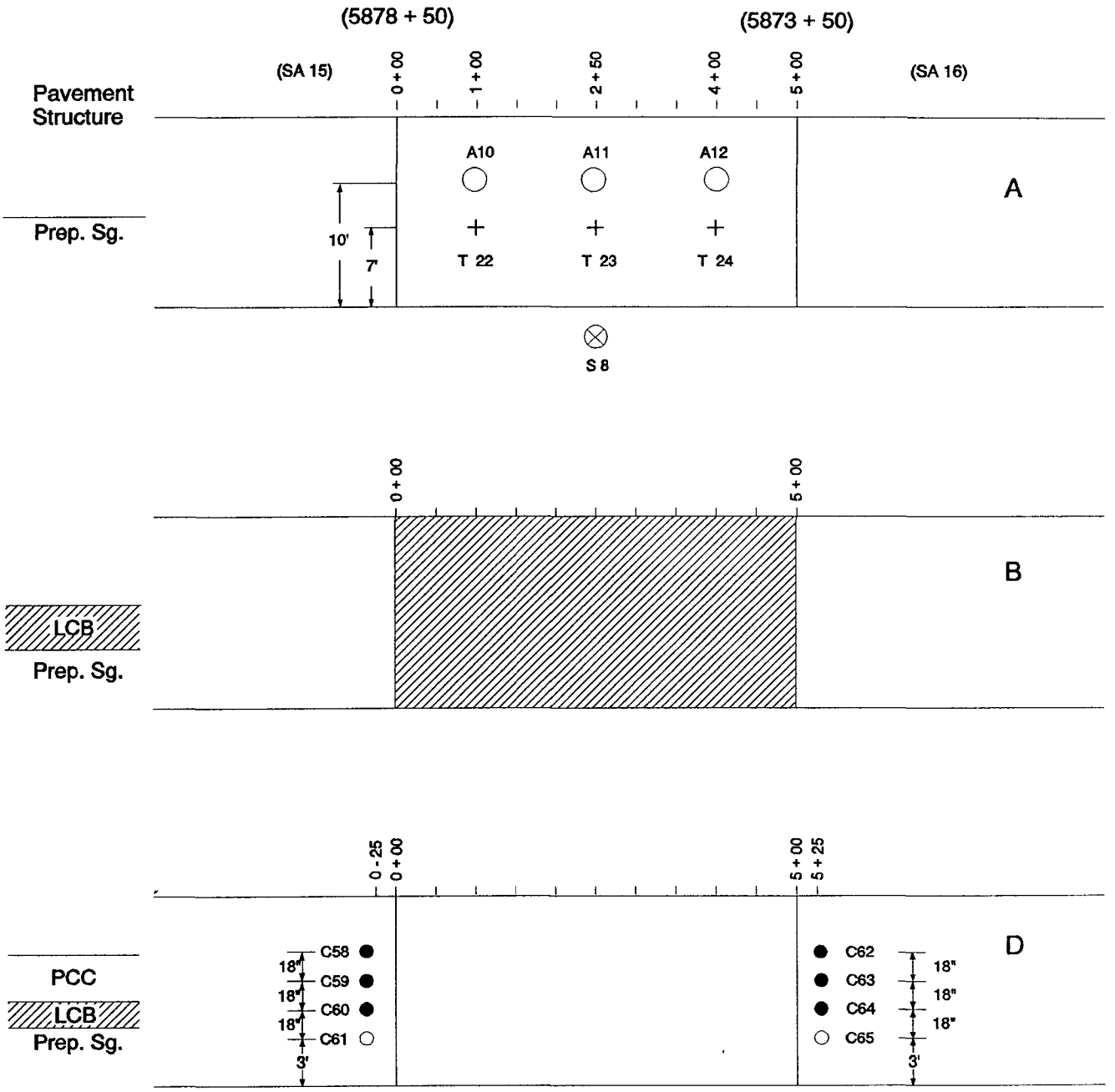
A Testing on prepared Subgrade (T19 - T21, B4, S7)

B No Testing on LCB

C Coring of finished PCC Surface (C53, C57)

Coring of Finished PCC Surface and bound layers (C50-C52, C54-C56)

FIGURE B-11. SAMPLING AND TESTING PLAN FOR TEST SECTION 050205



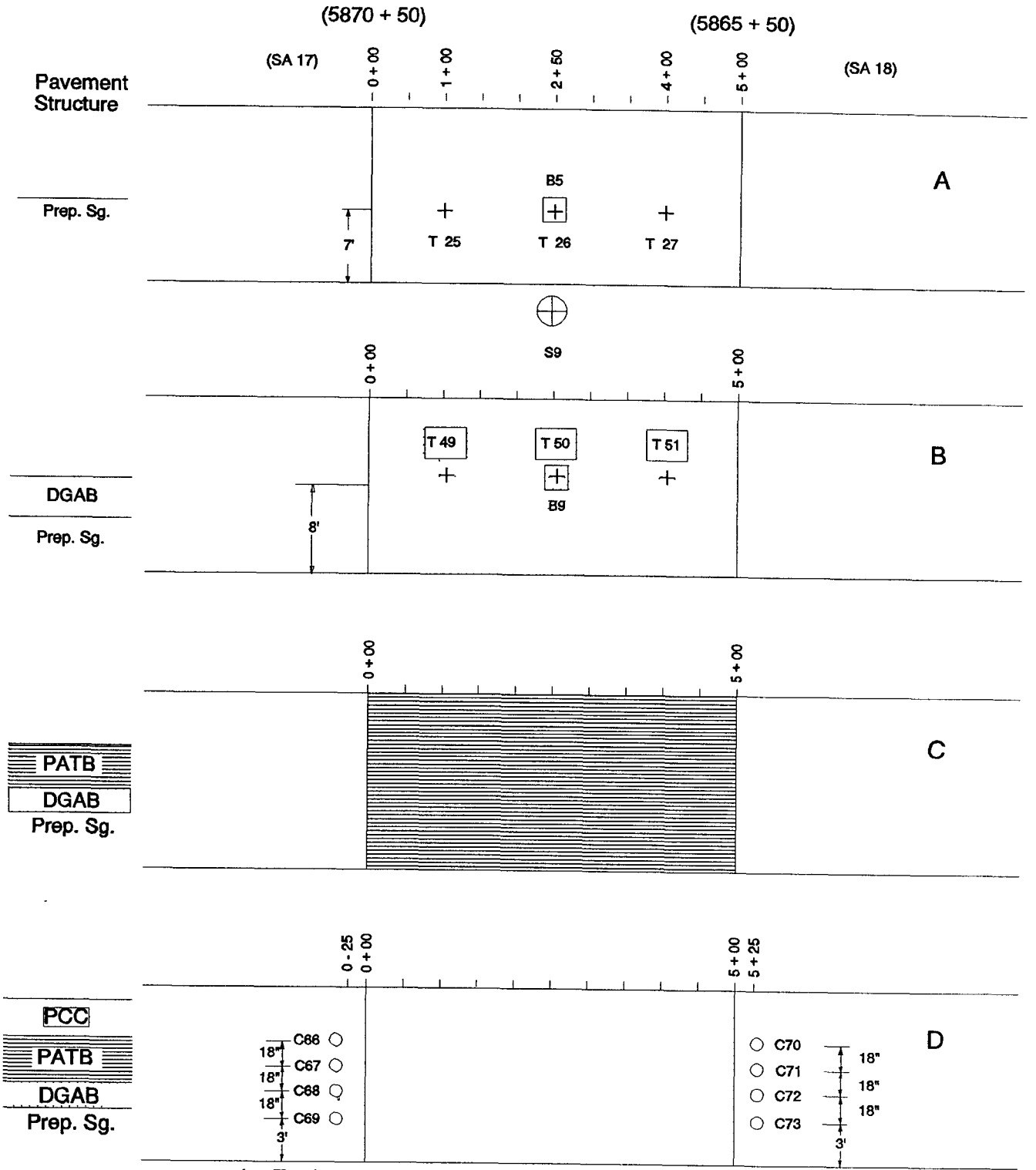
A Testing on prepared Subgrade (T22 - T24, A10- A12, S8)

B No testing on LCB

C Coring of finished PCC Surface (C61, C65)

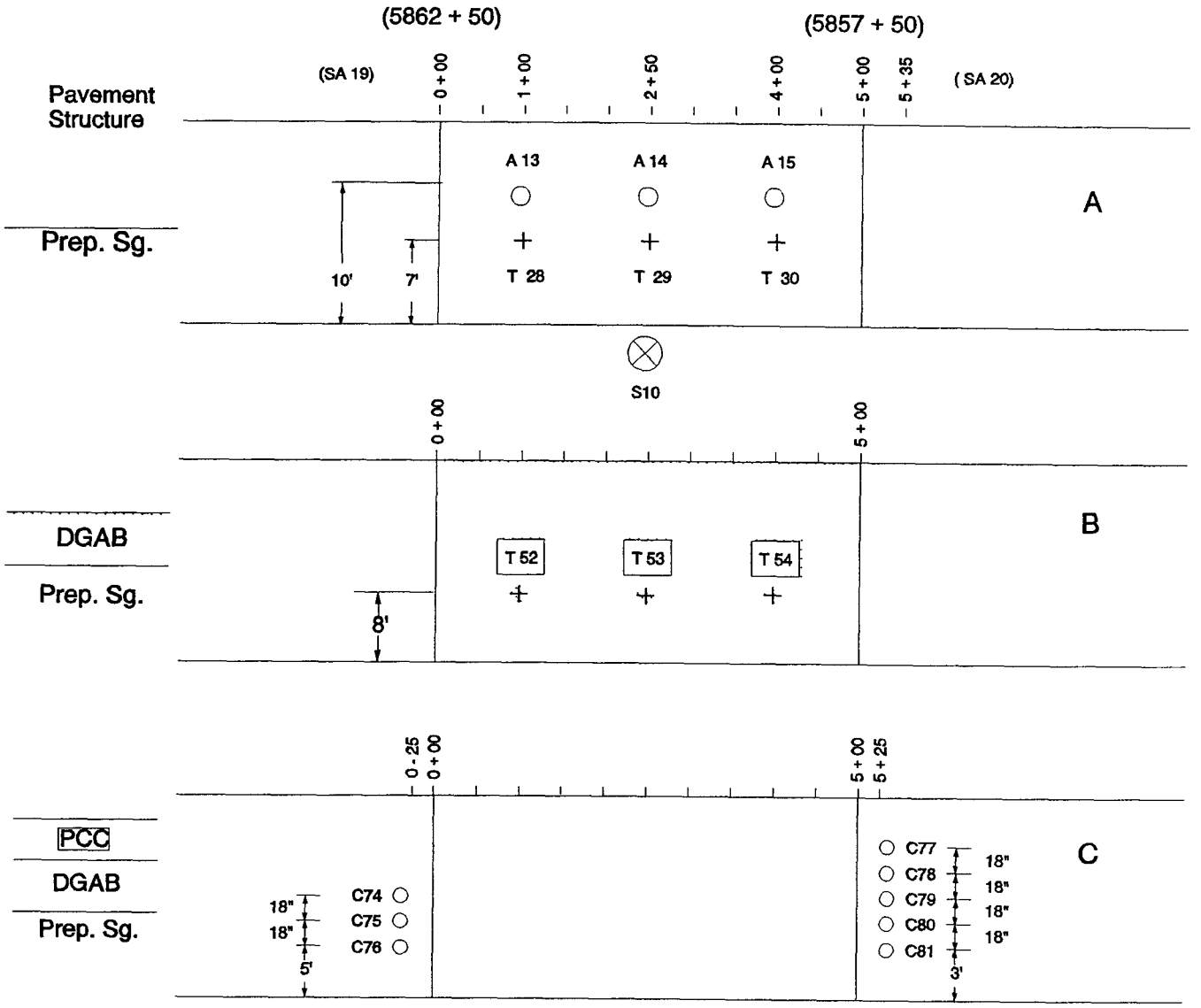
Coring PCC Surface and bound layers (C58 - C60, C62 - C64)

FIGURE B-12. SAMPLING AND TESTING PLAN FOR TEST SECTION 050208



A Testing on prepared Subgrade (T25 - T27, S9)
B Testing on compacted DGAB (T49 - T51, B9)
C No testing on PATB
D Coring of finished PCC Surface (C66 - C73)

FIGURE B-13. SAMPLING AND TESTING PLAN FOR TEST SECTION 050212

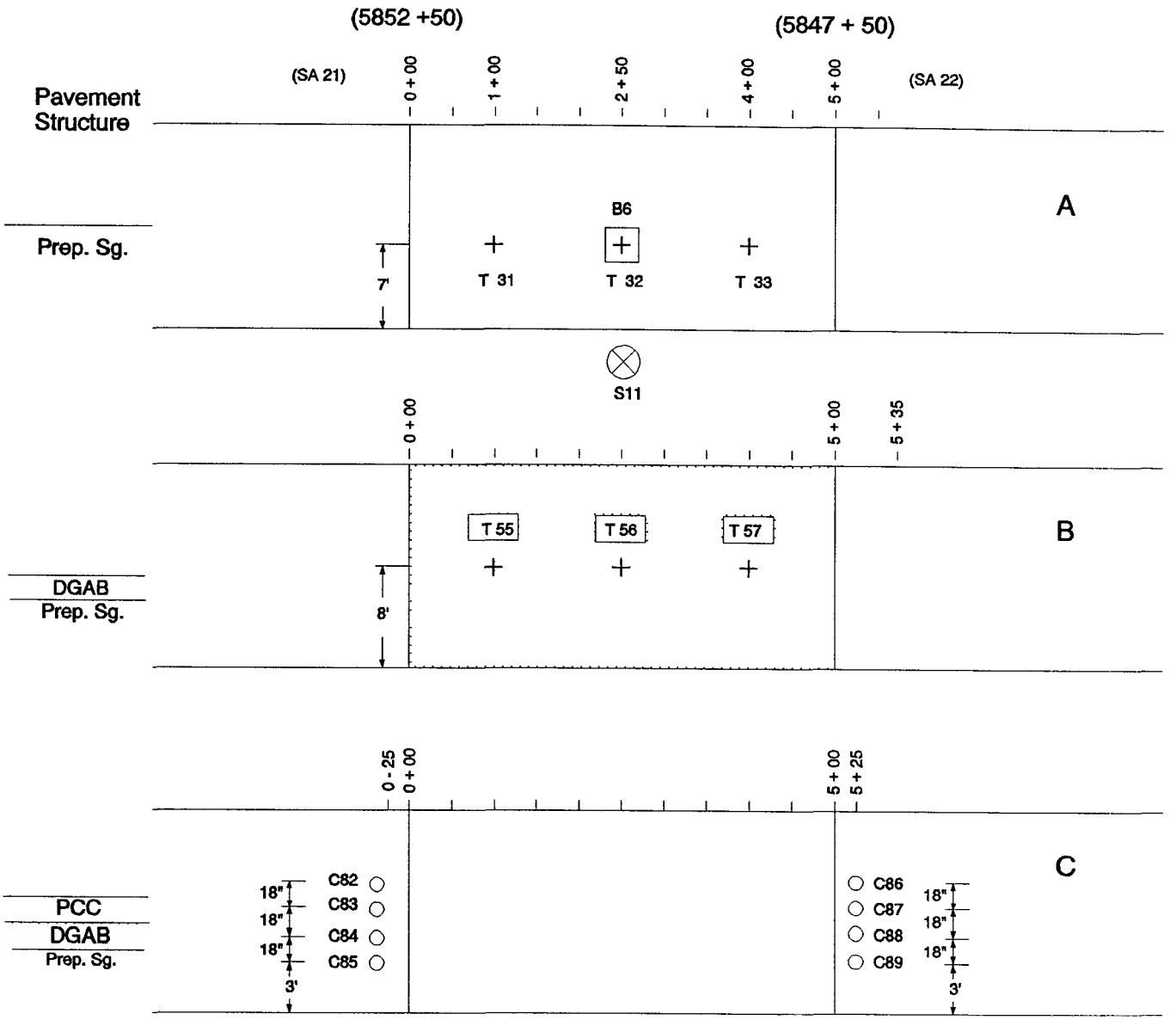


A Testing on prepared Subgrade (T28 - T30, A13 - A15, S10)

B Testing on compacted DGAB (T52 - T54)

C Coring of finished PCC Surface (C74 - C81)

FIGURE B-14. SAMPLING AND TESTING PLAN FOR TEST SECTION 050204

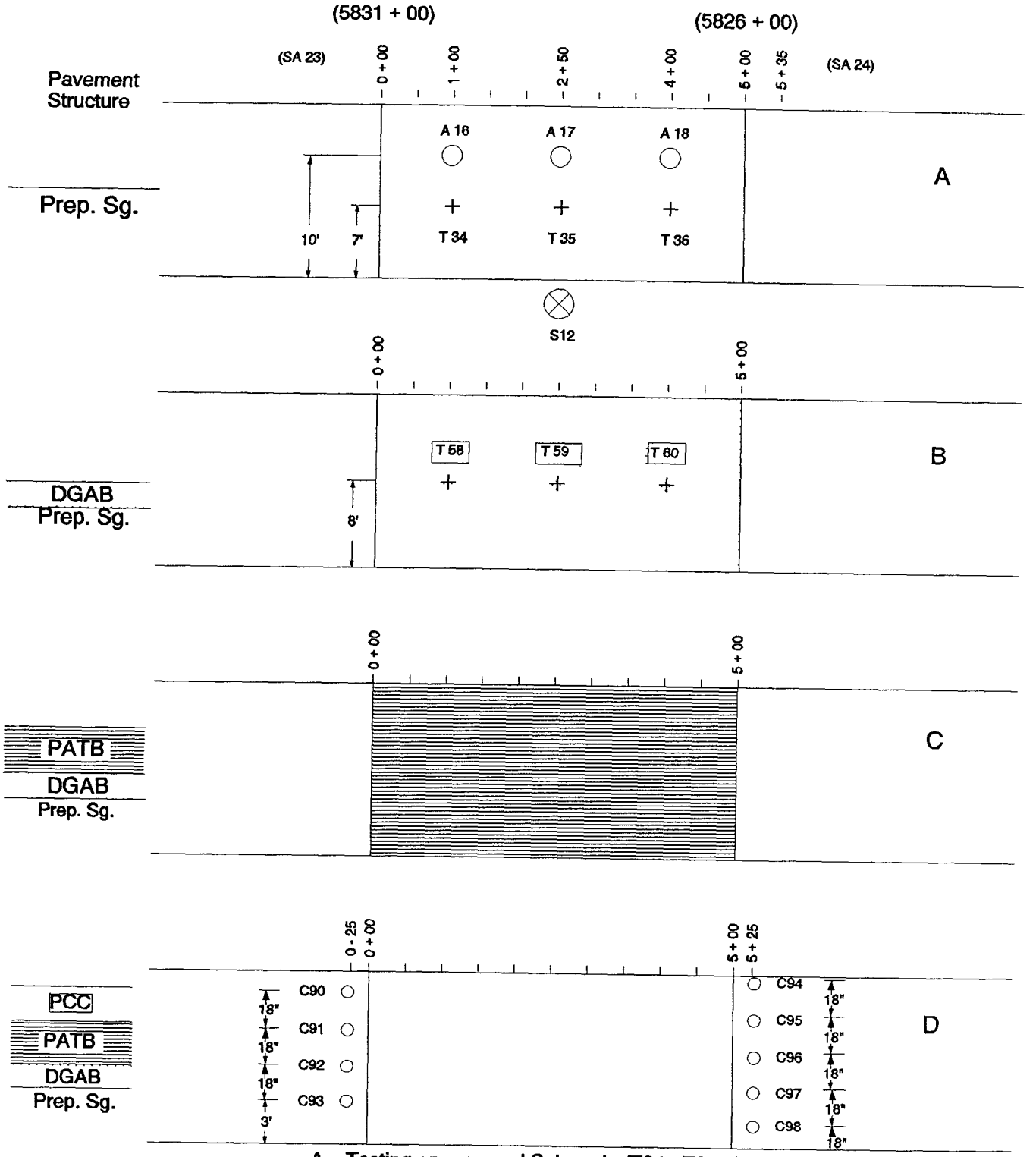


A Testing on prepared Subgrade (T31 - T33, , B6, S11)

B Testing on compacted DGAB (T55 - T57)

C Coring of finished PCC Surface (C82-C89)

FIGURE B-15. SAMPLING AND TESTING PLAN FOR TEST SECTION 050201



A Testing on prepared Subgrade (T34 - T36, A16 - A18, S12)
B Testing on compacted DGAB (T58 - T60)
C No testing on compacted PATB
D Coring on finished PCC Surface (C90-C98)

FIGURE B-16. SAMPLING AND TESTING PLAN FOR TEST SECTION 050209

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
B15	GX01	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GX02	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY01	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY02	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ01	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ02	3	152 mm × 305 mm (6″ × 12″) Cylinder
	FX01	3	152 mm × 305 mm (6″ × 12″) Beam
	FY01	3	152 mm × 305 mm (6″ × 12″) Beam
	FZ01	3	152 mm × 305 mm (6″ × 12″) Beam
B16	GX03	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GX04	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY03	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY04	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ03	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ04	3	152 mm × 305 mm (6″ × 12″) Cylinder
	FX02	3	152 mm × 305 mm (6″ × 12″) Beam
	FY02	3	152 mm × 305 mm (6″ × 12″) Beam
	FZ02	3	152 mm × 305 mm (6″ × 12″) Beam
B17	GX05	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GX06	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY05	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY06	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ05	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ06	3	152 mm × 305 mm (6″ × 12″) Cylinder
	FX03	3	152 mm × 305 mm (6″ × 12″) Beam
	FY03	3	152 mm × 305 mm (6″ × 12″) Beam
	FZ03	3	152 mm × 305 mm (6″ × 12″) Beam

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)
(Continued)

Sample Location №	Sample Number	Lab Test Number	Type of Sample
B18	GX07	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GX08	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY07	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY08	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ07	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ08	3	152 mm × 305 mm (6″ × 12″) Cylinder
	FX04	3	152 mm × 305 mm (6″ × 12″) Beam
	FY04	3	152 mm × 305 mm (6″ × 12″) Beam
	FZ04	3	152 mm × 305 mm (6″ × 12″) Beam
B19	GX09	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GX10	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY09	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY10	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ09	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ10	3	152 mm × 305 mm (6″ × 12″) Cylinder
	FX05	3	152 mm × 305 mm (6″ × 12″) Beam
	FY05	3	152 mm × 305 mm (6″ × 12″) Beam
	FZ05	3	152 mm × 305 mm (6″ × 12″) Beam
B20	GX11	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GX12	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY11	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GY12	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ11	3	152 mm × 305 mm (6″ × 12″) Cylinder
	GZ12	3	152 mm × 305 mm (6″ × 12″) Cylinder
	FX06	3	152 mm × 305 mm (6″ × 12″) Beam
	FY06	3	152 mm × 305 mm (6″ × 12″) Beam
	FZ06	3	152 mm × 305 mm (6″ × 12″) Beam

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
C1	CP01	1	102 mm (4″ Core)
C2	CP02	1	102 mm (4″ Core)
C3	CP03	1	102 mm (4″ Core)
C4	CP04	1	102 mm (4″ Core)
C5	CP05	2	102 mm (4″ Core)
C6	CP06	2	102 mm (4″ Core)
C7	CP07	2	102 mm (4″ Core)
C8	CP08	2	102 mm (4″ Core)
C10	CP10	1	102 mm (4″ Core)
C11	CP11	1	102 mm (4″ Core)
C12	CP12	1	102 mm (4″ Core)
C13	CP13	1	102 mm (4″ Core)
C14	CP14	2	102 mm (4″ Core)
C15	CP15	2	102 mm (4″ Core)
C16	CP16	2	102 mm (4″ Core)
C17	CP17	2	102 mm (4″ Core)
C18	CP18	1	102 mm (4″ Core)
C19	CP19	1	102 mm (4″ Core)
C20	CP20	1	102 mm (4″ Core)
C21	CP21	1	102 mm (4″ Core)
C22	CP22	2	102 mm (4″ Core)
C23	CP23	2	102 mm (4″ Core)
C24	CP24	2	102 mm (4″ Core)
C25	CP25	2	102 mm (4″ Core)
C26	CP26	1	102 mm (4″ Core)
C27	CP27	1	102 mm (4″ Core)

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)
(Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
C28	CP28	1	102 mm (4″ Core)
C29	CP29	1	102 mm (4″ Core)
C30	CP30	2	102 mm (4″ Core)
C31	CP31	2	102 mm (4″ Core)
C32	CP32	2	102 mm (4″ Core)
C33	CP33	2	102 mm (4″ Core)
C34	CP34	1	102 mm (4″ Core)
C35	CP35	1	102 mm (4″ Core)
C36	CP36	1	102 mm (4″ Core)
C37	CP37	1	102 mm (4″ Core)
C38	CP38	2	102 mm (4″ Core)
C39	CP39	2	102 mm (4″ Core)
C40	CP40	2	102 mm (4″ Core)
C41	CP41	2	102 mm (4″ Core)
C42	CP42	1	102 mm (4″ Core)
C43	CP43	1	102 mm (4″ Core)
C44	CP44	1	102 mm (4″ Core)
C45	CP45	2	102 mm (4″ Core)
C46	CP46	2	102 mm (4″ Core)
C47	CP47	2	102 mm (4″ Core)
C48	CP48	2	102 mm (4″ Core)
C49	CP49	2	102 mm (4″ Core)
C50	CP50	1	102 mm (4″ Core)
C51	CP51	1	102 mm (4″ Core)
C52	CP52	1	102 mm (4″ Core)
C53	CP53	1	102 mm (4″ Core)

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
C54	CP54	2	102 mm (4″ Core)
C55	CP55	2	102 mm (4″ Core)
C56	CP56	2	102 mm (4″ Core)
C57	CP57	2	102 mm (4″ Core)
C58	CP58	1	102 mm (4″ Core)
C59	CP59	1	102 mm (4″ Core)
C60	CP60	1	102 mm (4″ Core)
C61	CP61	1	102 mm (4″ Core)
C62	CP62	2	102 mm (4″ Core)
C63	CP63	2	102 mm (4″ Core)
C64	CP64	2	102 mm (4″ Core)
C65	CP65	2	102 mm (4″ Core)
C66	CP66	1	102 mm (4″ Core)
C67	CP67	1	102 mm (4″ Core)
C68	CP68	1	102 mm (4″ Core)
C69	CP69	1	102 mm (4″ Core)
C70	CP70	2	102 mm (4″ Core)
C71	CP71	2	102 mm (4″ Core)
C72	CP72	2	102 mm (4″ Core)
C73	CP73	2	102 mm (4″ Core)
C74	CP74	1	102 mm (4″ Core)
C75	CP75	1	102 mm (4″ Core)
C76	CP76	1	102 mm (4″ Core)
C77	CP77	2	102 mm (4″ Core)
C78	CP78	2	102 mm (4″ Core)
C79	CP79	2	102 mm (4″ Core)

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)

(Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
C80	CP80	2	102 mm (4″ Core)
C81	CP81	2	102 mm (4″ Core)
C82	CP82	1	102 mm (4″ Core)
C83	CP83	1	102 mm (4″ Core)
C84	CP84	1	102 mm (4″ Core)
C85	CP85	1	102 mm (4″ Core)
C86	CP86	2	102 mm (4″ Core)
C87	CP87	2	102 mm (4″ Core)
C88	CP88	2	102 mm (4″ Core)
C89	CP89	2	102 mm (4″ Core)
C90	CP90	1	102 mm (4″ Core)
C91	CP91	1	102 mm (4″ Core)
C92	CP92	1	102 mm (4″ Core)
C93	CP93	1	102 mm (4″ Core)
C94	CP94	2	102 mm (4″ Core)
C95	CP95	2	102 mm (4″ Core)
C96	CP96	2	102 mm (4″ Core)
C97	CP97	2	102 mm (4″ Core)
Lean Concrete Base			
B13	LX01	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LX02	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LY01	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LY02	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LZ01	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LZ02	3	152 mm × 305 mm (6″ × 12″) Cylinder

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)
(Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
B14	LX03	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LX04	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LY03	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LY04	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LZ03	3	152 mm × 305 mm (6″ × 12″) Cylinder
	LZ04	3	152 mm × 305 mm (6″ × 12″) Cylinder
C34	CL01	1	102 mm (4″ Core)
C35	CL02	1	102 mm (4″ Core)
C36	CL03	1	102 mm (4″ Core)
C38	CL04	2	102 mm (4″ Core)
C39	CL05	2	102 mm (4″ Core)
C40	CL06	2	102 mm (4″ Core)
C42	CL07	1	102 mm (4″ Core)
C43	CL08	1	102 mm (4″ Core)
C44	CL09	1	102 mm (4″ Core)
C45	CL10	2	102 mm (4″ Core)
C46	CL11	2	102 mm (4″ Core)
C47	CL12	2	102 mm (4″ Core)
C50	CL13	1	102 mm (4″ Core)
C51	CL14	1	102 mm (4″ Core)
C52	CL15	1	102 mm (4″ Core)
C54	CL16	2	102 mm (4″ Core)
C55	CL17	2	102 mm (4″ Core)
C56	CL18	2	102 mm (4″ Core)
C58	CL19	1	102 mm (4″ Core)
C59	CL20	1	102 mm (4″ Core)

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)
(Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
C60	CL21	1	102 mm (4″ Core)
C62	CL22	2	102 mm (4″ Core)
C63	CL23	2	102 mm (4″ Core)
C64	CL24	2	102 mm (4″ Core)
Permeable Asphalt Treated Base			
B10	BT01	3	45 kg (100 lb.) Bulk Sample
B11	BT02	3	45 kg (100 lb.) Bulk Sample
B12	BT03	3	45 kg (100 lb.) Bulk Sample
Dense Graded Aggregate Base			
B7	BG01	3	45 kg (100 lb.) Bulk Sample
B8	BG02	3	45 kg (100 lb.) Bulk Sample
B9	BG03	3	45 kg (100 lb.) Bulk Sample
Subgrade			
B1	BS01	3	45 kg (100 lb.) Bulk Sample
B2	BS02	3	45 kg (100 lb.) Bulk Sample
B3	BS03	3	45 kg (100 lb.) Bulk Sample
B4	BS04	3	45 kg (100 lb.) Bulk Sample
B5	BS05	3	45 kg (100 lb.) Bulk Sample
B6	BS06	3	45 kg (100 lb.) Bulk Sample
A1	TS01	3	Thin-Wall Tube Sample
A1	TS02	3	Thin-Wall Tube Sample
A3	TS05	3	Thin-Wall Tube Sample
A3	TS06	3	Thin-Wall Tube Sample
A4	TS07	3	Thin-Wall Tube Sample
A4	TS08	3	Thin-Wall Tube Sample
A6	TS11	3	Thin-Wall Tube Sample

TABLE B-4. SAMPLES TO BE SHIPPED TO THE STATE LABORATORY (OR THEIR DESIGNEE)
(Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
A6	TS12	3	Thin-Wall Tube Sample
A7	TS13	3	Thin-Wall Tube Sample
A7	TS14	3	Thin-Wall Tube Sample
A8	TS15	3	Thin-Wall Tube Sample
A8	TS16	3	Thin-Wall Tube Sample
A10	TS19	3	Thin-Wall Tube Sample
A10	TS20	3	Thin-Wall Tube Sample
A12	TS23	3	Thin-Wall Tube Sample
A12	TS24	3	Thin-Wall Tube Sample
A13	TS25	3	Thin-Wall Tube Sample
A13	TS26	3	Thin-Wall Tube Sample
A15	TS29	3	Thin-Wall Tube Sample
A15	TS30	3	Thin-Wall Tube Sample
A16	TS31	3	Thin-Wall Tube Sample
A16	TS32	3	Thin-Wall Tube Sample
A18	TS35	3	Thin-Wall Tube Sample
A18	TS36	3	Thin-Wall Tube Sample

TABLE B-5. SAMPLES TO BE SHIPPED TO THE FHWA-LTPP CONTRACTOR LABORATORY

Sample Location №	Sample Number	Lab Test Number	Type of Sample
Portland Cement Concrete			
No Testing to be Performed by FHWA-LTPP Contractor			
Lean Concrete Base			
No Testing to be Performed by FHWA-LTPP Contractor			
Permeable Asphalt Treated Base			
No Testing to be Performed by FHWA-LTPP Contractor			
Dense Graded Aggregate Base			
B7	BG01	3	136 kg (300 lb.) Bulk Sample
B8	BG02	3	136 kg (300 lb.) Bulk Sample
B9	BG03	3	136 kg (300 lb.) Bulk Sample
B7	MG01	3	Moisture Content Jar Sample
B8	MG02	3	Moisture Content Jar Sample
B9	MG03	3	Moisture Content Jar Sample
Subgrade			
B1	BS01	3	136 kg (300 lb.) Bulk Sample
B2	BS02	3	136 kg (300 lb.) Bulk Sample
B3	BS03	3	136 kg (300 lb.) Bulk Sample
B4	BS04	3	136 kg (300 lb.) Bulk Sample
B5	BS05	3	136 kg (300 lb.) Bulk Sample
B6	BS06	3	136 kg (300 lb.) Bulk Sample
A2	TS03	3	Thin-Wall Tube Sample
A2	TS04	3	Thin-Wall Tube Sample
A5	TS09	3	Thin-Wall Tube Sample
A5	TS10	3	Thin-Wall Tube Sample
A9	TS17	3	Thin-Wall Tube Sample
A9	TS18	3	Thin-Wall Tube Sample

TABLE B-5. SAMPLES TO BE SHIPPED TO THE FHWA-LTPP CONTRACTOR LABORATORY (Continued)

Sample Location Nº	Sample Number	Lab Test Number	Type of Sample
A11	TS21	3	Thin-Wall Tube Sample
A11	TS22	3	Thin-Wall Tube Sample
A14	TS27	3	Thin-Wall Tube Sample
A14	TS28	3	Thin-Wall Tube Sample
A17	TS33	3	Thin-Wall Tube Sample
A18	TS34	3	Thin-Wall Tube Sample
B1	MS01	3	Moisture Content Jar Sample
B2	MS02	3	Moisture Content Jar Sample
B3	MS03	3	Moisture Content Jar Sample
B4	MS04	3	Moisture Content Jar Sample
B5	MS05	3	Moisture Content Jar Sample
B6	MS06	3	Moisture Content Jar Sample
Portland Cement Concrete			
C9	CP9	2	102 mm (4″ Core)
C98	CP98	2	102 mm (4″ Core)

Note: Specimen shipped after core examination and thickness test performed in the State Laboratory (or their designee).

SECTION C

LABORATORY MATERIAL TESTING

SECTION C

LABORATORY MATERIAL TESTING

It is the intent of this section of the sampling and testing plan to provide an outline for the laboratory testing that is planned for the Arkansas SPS-2 project. The previous section ended with lists of samples to be shipped to each of two laboratories; the state designated laboratory and the FHWA/LTPP contracted laboratory. In this section, the tests to be performed on each sample are listed.

Table C.1 provides a reference project layer numbering scheme. It is important that the two laboratories reference the same layer by number to ensure meaningful results.

Table C.2 provides a listing of the tests to be performed for each material type and pavement layer, and the associated laboratory testing protocol. It is imperative that the protocols listed be strictly followed during testing.

Tables C.3 through C.8 provide tracking tables for the state designated laboratory for each material type. These tables itemize the testing to occur on each sample and provide an indication of whether the sample is to be disposed of. Tables C.9 through C.14 provide similar information for the FHWA/LTPP contracted laboratory.

TABLE C-1. PROJECT LAYER NUMBERING

Layer Nº.	Description
1	Subgrade
2	Dense Graded Aggregate Base (DGAB)
3	Permeable Asphalt Treated Base (PATB)
4	Lean Concrete Base (LCB)
5	Portland Cement Surface Course

TABLE C-2. SAMPLES TO BE USED FOR LABORATORY MATERIAL TESTING (Continued)

Material Type And Properties	LTPP Des.	LTPP Protocol	Min. Nº. of Tests/Layer	Sampling Location	Test Conducted By: State	FHWA
Portland Cement Concrete (Continued)						
Core Examination and Thickness	PC06	P66	98	All Cores C1-C98	X	
Air Content	PC08	P68				
28-day			2	C27, C51	X	
Flexural Strength	PC09	P69				
14-day 550 psi			3	B15-B17	X	
900 psi			3	B18-B20		
28-day 550 psi			3	B15-B17		
900 psi			3	B18-B20		
1-year 550 psi			3	B15-B17		
900 psi			3	B18-B20		

TABLE C-2. SAMPLES TO BE USED FOR LABORATORY MATERIAL TESTING

Material Type And Properties	LTPP Des.	LTPP Protocol	Min. Nº. of Tests/Layer	Sampling Location	Test Conducted By: State	FHWA
Subgrade						
Sieve Analysis	SS01	P51	6	B1-B6		X
Hydrometer to 0.001 mm	SS02	P42	6	B1-B6		X
Atterberg Limits	SS03	P43	6	B1-B6		X
Classification	SS04	P52	6	B1-B6		X
(Visual-manual only on thin-wall tubes)			18	A1-A18	X	X
Moisture-Density Relations	SS05	P55	6	B1-B6		X
Resilient Modulus	SS07	P46	6	A2, A5, A9, A11, A14, A17		X
(If thin-wall tube is not available)			6	B1-B6		X
Unit Weight (If thin-wall tube is not available, test is not conducted)	SS08	P56	6	A1, A4, A8, A10, A13, A16	X	
Natural Moisture Content	SS09	P49	6	B1-B6		X
Unconfined Comp. Strength (If thin-wall tube is not available, test is not conducted)	SS10	P54	6	A1, A4, A8, A10, A13, A16	X	
Permeability	SS11	P57	3	A3, A7, A18	X	
Permeability	UG09	P48	6	B1-B6	X	
Dense Graded Aggregate Base						
Particle Size Analysis	UG01	P41	3	B7-B9		X
Sieve Analysis (Washed)	UG02	P41	3	B7-B9		X
Atterberg Limits	UG04	P43	3	B7-B9		X
Moisture-Density Relations	UG05	P44	3	B7-B9		X
Resilient Modulus	UG07	P46	3	B7-B9		X
Classification	UG08	P47	3	B7-B9		X
Permeability	UG09	P48	3	B7-B9	X	
Natural Moisture Content	UG10	P49	3	B7-B9		X
Permeable Treated Asphalt Base						
Asphalt Content (Extraction)	AC04	P04	3	B10-B12 from paver	X	
Extracted Aggregate:						
Gradation of Aggregate	AG04	P14	3	B10-B12 from paver	X	

TABLE C-2. SAMPLES TO BE USED FOR LABORATORY MATERIAL TESTING (Continued)

Material Type And Properties	LTPP Des.	LTPP Protocol	Min. Nº. of Tests/Layer	Sampling Location	Test Conducted By: State	FHWA
Lean Concrete Base						
Compressive Strength	PC01	P61			X	
7-day			6	B13-B14		
			8	C34, C38, C42, C45, C50, C54, C58, C62		
28-day			6	B13-B14		
			8	C35, C39, C43, C46, C51, C55, C59, C63		
1-year			6	B13-B14		
			8	C36, C40, C44, C47, C52, C56, C60, C64		
Core Examination and Thickness	PC06	P66	24 (All cores)	(C34-C36, C38-C40, C42-C47, C50-C52, C54-C56, C58-C60, C62-C65)	X	
Portland Cement Concrete						
Compressive Strength	PC01	P61			X	
14-day 550 psi			3	B15-B17		
			6	C1, C10, C90, C34, C50, C82		
900 psi			3	B18-B20		
			6	C18, C26, C42, C58, C66, C74		
28-day 550 psi			3	B15-B17		
			6	C2, C11, C35, C51, C83, C91		
900 psi			3	B18-B20		
			6	C19, C27, C43, C59, C67, C75		
1-year 550 psi			3	B15-17		
			6	C3, C12, C36, C52, C84, C92		
900 psi			3	B18-B20		
			6	C20, C28, C44, C60, C68, C76		

TABLE C-2. SAMPLES TO BE USED FOR LABORATORY MATERIAL TESTING (Continued)

Material Type And Properties	LTPP Des.	LTPP Protocol	Min. Nº. of Tests/Layer	Sampling Location	Test Conducted By: State	FHWA
Portland Cement Concrete (Continued)						
Splitting Tensile Strength	PC02	P62			X	
14-day 550 psi			3	B15-B17		
			6	C5, C14, C38, C54, C86, C94		
900 psi			3	B18-B20		
			6	C22, C30, C45, C62, C70, C77		
28-day 550 psi			3	B15-B17		
			6	C6, C15, C39, C55, C87, C95		
900 psi			3	B18-B20		
			6	C23, C31, C46, C63, C71, C78		
1-year 550 psi			3	B15-B17		
			6	C7, C16, C40, C56, C88, C96		
900 psi			3	B18-B20		
			6	C24, C32, C47, C64, C72, C79		
Coefficient of Thermal Expansion	PC03	P63	2	C9, C98		X
Static Modulus of Elasticity	PC04	P64			X	
28-day 550 psi			6	C4, C13, C37, C53, C85, C93		
900 psi			6	C21, C29, C48, C61, C69, C80		
1-year 550 psi			6	C8, C17, C41, C57, C89, C97		
900 psi			6	C25, C33, C49, C65, C73, C81		
PCC Unit Weight	PC05	P65	12	C4, C13, C21, C29, C37, C48, C53, C61, C69, C80, C85, C93	X	

TABLE C-3. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
C1	CP01	1	PC06/P66	PC01/P61(14day)		No	(b)	Yes
C2	CP02	1	PC06/P66	PC01/P61(28day)		No	(b)	Yes
C3	CP03	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C4	CP04	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C5	CP05	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C6	CP06	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C7	CP07	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C8	CP08	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C10	CP10	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C11	CP11	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C12	CP12	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C13	CP13	1	PC06/P66	P05/P65	PC04/P64(28day)	No	(b)	Yes
C14	CP14	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C15	CP15	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C16	CP16	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C17	CP17	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C18	CP18	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C19	CP19	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C20	CP20	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C21	CP21	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C22	CP22	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C23	CP23	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C24	CP24	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C25	CP25	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C26	CP26	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C27	CP27	1	PC06/P66	PC08/P68	PC01/P61(28day)	No	(b)	Yes
C28	CP28	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes

TABLE C-3. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
C29	CP29	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C30	CP30	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C31	CP31	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C32	CP32	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C33	CP33	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C34	CP34	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C35	CP35	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C36	CP36	1	PC06/P66	PC01/P61 (1 year)		No	(b)	Yes
C37	CP37	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C38	CP38	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C39	CP39	2	PC06/P66	PC02/P62 (28 day)		No	(b)	Yes
C40	CP40	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C41	CP41	2	PC06/P66	PC04/P64 (1 year)		No	(b)	Yes
C42	CP42	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C43	CP43	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C44	CP44	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C45	CP45	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C46	CP46	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C47	CP47	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C48	CP48	2	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C49	CP49	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C50	CP50	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C51	CP51	1	PC06/P66	PC08/P68	PC01/P61 (28day)	No	(b)	Yes
C52	CP52	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C53	CP53	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C54	CP54	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes

TABLE C-3. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
C55	CP55	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C56	CP56	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C57	CP57	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C58	CP58	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C59	CP59	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C60	CP60	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C61	CP61	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C62	CP62	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C63	CP63	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C64	CP64	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C65	CP65	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C66	CP66	1	PC06/P66	PC01/P61(14 day)		Yes	(b)	No
C67	CP67	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C68	CP68	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C69	CP69	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C70	CP70	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C71	CP71	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C72	CP72	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C73	CP73	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C74	CP74	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C75	CP75	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C76	CP76	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C77	CP77	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C78	CP78	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C79	CP79	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C80	CP80	2	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes

TABLE C-3. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
C81	CP81	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C82	CP82	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C83	CP83	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C84	CP84	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C85	CP85	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C86	CP86	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C87	CP87	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C88	CP88	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C89	CP89	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
C90	CP90	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C91	CP91	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C92	CP92	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C93	CP93	1	PC06/P66	PC05/P65	PC04/P64(28day)	No	(b)	Yes
C94	CP94	2	PC06/P66	PC02/P62(14 day)		No	(b)	Yes
C95	CP95	2	PC06/P66	PC02/P62(28 day)		No	(b)	Yes
C96	CP96	2	PC06/P66	PC02/P62(1 year)		No	(b)	Yes
C97	CP97	2	PC06/P66	PC04/P64(1 year)		No	(b)	Yes
B15	GX01	3	PC01/P61(14day)			No	(d)	Yes
	GX02	3	PC02/P62(14day)			No	(d)	Yes
	GY01	3	PC01/P61(28day)			No	(d)	Yes
	GY02	3	PC02/P62(28day)			No	(d)	Yes
	GZ01	3	PC01/P61(1year)			No	(d)	Yes
	GZ02	3	PC02/P62(1year)			No	(d)	Yes
	FX01	3	PC09/P69(14day)			No	(d)	Yes
	FY01	3	PC09/P69(28day)			No	(d)	Yes
	FZ01	3	PC09/P69(1year)			No	(d)	Yes

TABLE C-3. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
B16	GX03	3	PC01/P61(14day)			No	(d)	Yes
	GX04	3	PC02/P62(14day)			No	(d)	Yes
	GY03	3	PC01/P61(28day)			No	(d)	Yes
	GY04	3	PC02/P62(28day)			No	(d)	Yes
	GZ03	3	PC01/P61(1year)			No	(d)	Yes
	GZ04	3	PC02/P62(1year)			No	(d)	Yes
	FX02	3	PC09/P69(14day)			No	(d)	Yes
	FY02	3	PC09/P69(28day)			No	(d)	Yes
	FZ02	3	PC09/P69(1year)			No	(d)	Yes
B17	GX05	3	PC01/P61(14day)			No	(d)	Yes
	GX06	3	PC02/P62(14day)			No	(d)	Yes
	GY05	3	PC01/P61(28day)			No	(d)	Yes
	GY06	3	PC02/P62(28day)			No	(d)	Yes
	GZ05	3	PC01/P61(1year)			No	(d)	Yes
	GZ06	3	PC02/P62(1year)			No	(d)	Yes
	FX03	3	PC09/P69(14day)			No	(d)	Yes
	FY03	3	PC09/P69(28day)			No	(d)	Yes
	FZ03	3	PC09/P69(1year)			No	(d)	Yes
B18	GX07	3	PC01/P61(14day)			No	(d)	Yes
	GX08	3	PC02/P62(14day)			No	(d)	Yes
	GY07	3	PC01/P61(28day)			No	(d)	Yes
	GY08	3	PC02/P62(28day)			No	(d)	Yes
	GZ07	3	PC01/P61(1year)			No	(d)	Yes
	GZ08	3	PC02/P62(1year)			No	(d)	Yes
	FX04	3	PC09/P69(14day)			No	(d)	Yes
	FY04	3	PC09/P69(28day)			No	(d)	Yes
	FZ04	3	PC09/P69(1year)			No	(d)	Yes

TABLE C-3. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
B19	GX09	3	PC01/P61(14day)			No	(d)	Yes
	GX10	3	PC02/P62(14day)			No	(d)	Yes
	GY09	3	PC01/P61(28day)			No	(d)	Yes
	GY10	3	PC02/P62(28day)			No	(d)	Yes
	GZ09	3	PC01/P61(1year)			No	(d)	Yes
	GZ10	3	PC02/P62(1year)			No	(d)	Yes
	FX05	3	PC09/P69(14day)			No	(d)	Yes
	FY05	3	PC09/P69(28day)			No	(d)	Yes
	FZ05	3	PC09/P69(1year)			No	(d)	Yes
B20	GX11	3	PC01/P61(14day)			No	(d)	Yes
	GX12	3	PC02/P62(14day)			No	(d)	Yes
	GY11	3	PC01/P61(28day)			No	(d)	Yes
	GY12	3	PC02/P62(28day)			No	(d)	Yes
	GZ11	3	PC01/P61(1year)			No	(d)	Yes
	GZ12	3	PC02/P62(1year)			No	(d)	Yes
	FX06	3	PC09/P69(14day)			No	(d)	Yes
	FY06	3	PC09/P69(28day)			No	(d)	Yes
	FZ06	3	PC09/P69(1year)			No	(d)	Yes

TABLE C-4. TRACKING TABLE OF LEAN CONCRETE BASE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
B13	LX01	3	PC01/P61			No	(d)	Yes
	LX02	3	PC01/P61			No	(d)	Yes
	LY01	3	PC01/P61			No	(d)	Yes
	LY02	3	PC01/P61			No	(d)	Yes
	LZ01	3	PC01/P61			No	(d)	Yes
	LZ02	3	PC01/P61			No	(d)	Yes
B14	LX03	3	PC01/P61			No	(d)	Yes
	LX04	3	PC01/P61			No	(d)	Yes
	LY03	3	PC01/P61			No	(d)	Yes
	LY04	3	PC01/P61			No	(d)	Yes
	LZ03	3	PC01/P61			No	(d)	Yes
	LZ04	3	PC01/P61			No	(d)	Yes
C34	CL01	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C35	CL02	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C36	CL03	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C38	CL04	2	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C39	CL05	2	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C40	CL06	2	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C42	CL07	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C43	CL08	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C44	CL09	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C45	CL10	2	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C46	CL11	2	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C47	CL12	2	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C50	CL13	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C51	CL14	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C52	CL15	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes

TABLE C-4. TRACKING TABLE OF LEAN CONCRETE BASE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE) (Continued)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence					
			Required Laboratory Tests Per Layer			Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third			
C54	CL16	2	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C55	CL17	2	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C56	CL18	2	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C58	CL19	1	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C59	CL20	1	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C60	CL21	1	PC06/P66	PC01/P61(1 year)		No	(b)	Yes
C62	CL22	2	PC06/P66	PC01/P61(14 day)		No	(b)	Yes
C63	CL23	2	PC06/P66	PC01/P61(28 day)		No	(b)	Yes
C64	CL24	2	PC06/P66	PC01/P61(1 year)		No	(b)	Yes

TABLE C-5. TRACKING TABLE OF PERMEABLE ASPHALT TREATED BASE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth			
B10	BT01	3	AC04/P04	AG04/P14			No	(a)	Yes
B11	BT02	3	AC04/P04	AG04/P14			No	(a)	Yes
B12	BT03	3	AC04/P04	AG04/P14			No	(a)	Yes

TABLE C-6. TRACKING TABLE OF DENSE GRADED AGGREGATE BASE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth			
B7	BG01	3	UG09/P48				No	(a)	Yes
B8	BG02	3	UG09/P48				No	(a)	Yes
B9	BG03	3	UG09/P48				No	(a)	Yes

TABLE C-7. TRACKING TABLE OF SUBGRADE TESTING IN THE STATE LABORATORY (OR THEIR DESIGNEE)

Sample Location Number	Sample Number	Lab Test Nº.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth			
B1	BS01	3	No testing - samples stored				Yes	(b)	No
B2	BS02	3	No testing - samples stored				Yes	(b)	No
B3	BS03	3	No testing - samples stored				Yes	(b)	No
B4	BS04	3	No testing - samples stored				Yes	(b)	No
B5	BS05	3	No testing - samples stored				Yes	(b)	No
B6	BS06	3	No testing - samples stored				Yes	(b)	No
A1	TS01	3	SS04/P52	SS08/P56	SS10/P54		No	(c)	Yes
A3	TS05	3	SS04/P52	SS11/P57			No	(c)	Yes
A4	TS07	3	SS04/P52	SS08/P56	SS10/P54		No	(c)	Yes
A6	TS11	3	SS04/P52				No	(c)	Yes
A7	TS13	3	SS04/P52	SS11/P57			No	(c)	Yes
A8	TS15	3	SS04/P52	SS08/P56	SS10/P54		No	(c)	Yes
A10	TS19	3	SS04/P52	SS08/P56	SS10/P54		No	(c)	Yes
A12	TS23	3	SS04/P52				No	(c)	Yes
A13	TS25	3	SS04/P52	SS08/P56	SS10/P54		No	(c)	Yes
A15	TS29	3	SS04/P52				No	(c)	Yes
A16	TS31	3	SS04/P52	SS08/P56	SS10/P54		No	(c)	Yes
A18	TS35	3	SS04/P52	SS11/P57			No	(c)	Yes
A3	TS06	3					Yes	(c)	No
A4	TS08	3					Yes	(c)	No
A6	TS12	3					Yes	(c)	No
A7	TS14	3					Yes	(c)	No
A8	TS16	3					Yes	(c)	No
A10	TS20	3					Yes	(c)	No
A12	TS24	3					Yes	(c)	No
A13	TS26	3					Yes	(c)	No
A15	TS30	3					Yes	(c)	No
A16	TS32	3					Yes	(c)	No
A18	TS36	3					Yes	(c)	No

TABLE C-8. TRACKING TABLE OF PORTLAND CEMENT CONCRETE TESTING IN THE FHWA/LTPP CONTRACTOR LABORATORY

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth			
No Portland Cement Concrete Testing Will be Conducted by the FHWA-LTPP Testing Contractor									

TABLE C-9. TRACKING TABLE OF LEAN CONCRETE BASE TESTING IN THE FHWA/LTPP CONTRACTOR LABORATORY

Sample Location Number	Sample Number	Lab Test Nº.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth			
No Lean Concrete Base Testing Will be Conducted by the FHWA-LTPP Testing Contractor									

TABLE C-10. TRACKING TABLE OF PERMEABLE ASPHALT TREATED BASE TESTING IN THE FHWA/LTPP CONTRACTOR LABORATORY

Sample Location Number	Sample Number	Lab Test №.	Steps Involved in Laboratory Handling and Testing Sequence						
			Required Laboratory Tests Per Layer				Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth			

No Permeable Asphalt Treated Base Testing
Will be Conducted by the FHWA-LTPP
Testing Contractor

TABLE C-11. TRACKING TABLE OF DENSE GRADED AGGREGATE BASE TESTING IN THE FHWA-LTPP CONTRACTOR LABORATORY

Sample Location Number	Sample Number	Lab Test Nº.	Steps Involved in Laboratory Handling and Testing Sequence								
			Required Laboratory Tests Per Layer						Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth	Fifth	Sixth			
B7	BG01	3	UG01/P41	UG02/P41	UG04/P43	UG08/P47	UG05/P44	UG07/P46	No	(b)	Yes
B8	BG02	3	UG01/P41	UG02/P41	UG04/P43	UG08/P47	UG05/P44	UG07/P46	No	(b)	Yes
B9	BG03	3	UG01/P41	UG02/P41	UG04/P43	UG08/P47	UG05/P44	UG07/P46	No	(b)	Yes
B7	MG01	3	UG10/P49						No	(b)	Yes
B8	MG02	3	UG10/P49						No	(b)	Yes
B9	MG03	3	UG10/P49						No	(b)	Yes

TABLE C-12. TRACKING TABLE OF SUBGRADE TESTING IN THE FHWA-LTPP CONTRACTOR LABORATORY

Sample Location Number	Sample Number	Lab Test Nº.	Steps Involved in Laboratory Handling and Testing Sequence								
			Required Laboratory Tests Per Layer						Extra Sample	Sample Storage	Sample Disposed ?
			First	Second	Third	Fourth	Fifth	Sixth			
B1	BS01	3	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SSO5/P55		No	(b)	Yes
B2	BS02	3	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SSO5/P55		No	(b)	Yes
B3	BS03	3	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SSO5/P55		No	(b)	Yes
B4	BS04	3	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SSO5/P55		No	(b)	Yes
B5	BS05	3	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SSO5/P55		No	(b)	Yes
B6	BS06	3	SS01/P51	SS02/P42	SS03/P43	SS04/P52	SSO5/P55		No	(b)	Yes
A2	TS03	3	SS04/P52	SS07/P46					No	(c)	Yes
A5	TS09	3	SS04/P52	SS07/P46					No	(c)	Yes
A9	TS17	3	SS04/P52	SS07/P46					No	(c)	Yes
A11	TS21	3	SS04/P52	SS07/P46					No	(c)	Yes
A14	TS27	3	SS04/P52	SS07/P46					No	(c)	Yes
A17	TS33	3	SS04/P52	SS07/P46					No	(c)	Yes
B1	MS01	3	SS09/P49						No	(b)	Yes
B2	MS02	3	SS09/P49						No	(b)	Yes
B3	MS03	3	SS09/P49						No	(b)	Yes
B4	MS04	3	SS09/P49						No	(b)	Yes
B5	MS05	3	SS09/P49						No	(b)	Yes
B6	MS06	3	SS09/P49						No	(b)	Yes
A2	TS04	3							Yes	(c)	No
A5	TS10	3							Yes	(c)	No
A9	TS18	3							Yes	(c)	No
A11	TS22	3							Yes	(c)	No
A14	TS28	3							Yes	(c)	No
A17	TS34	3							Yes	(c)	No

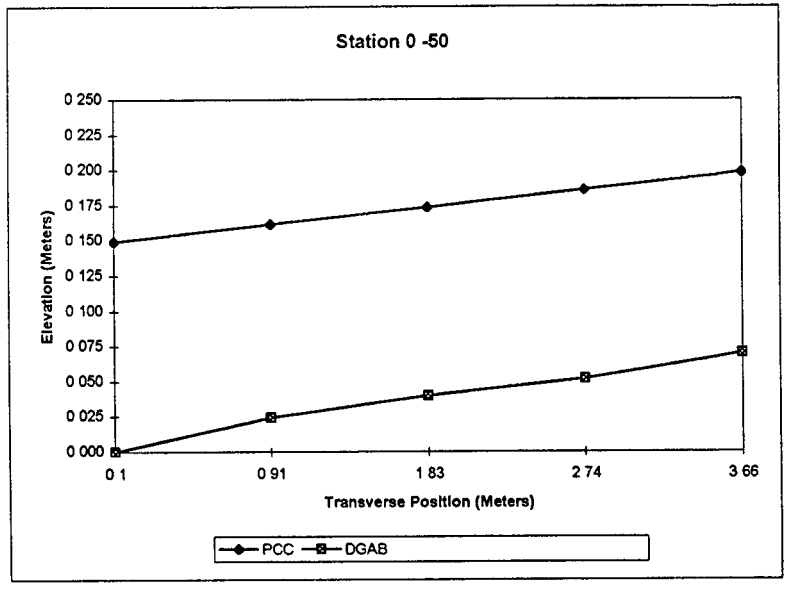
APPENDIX C

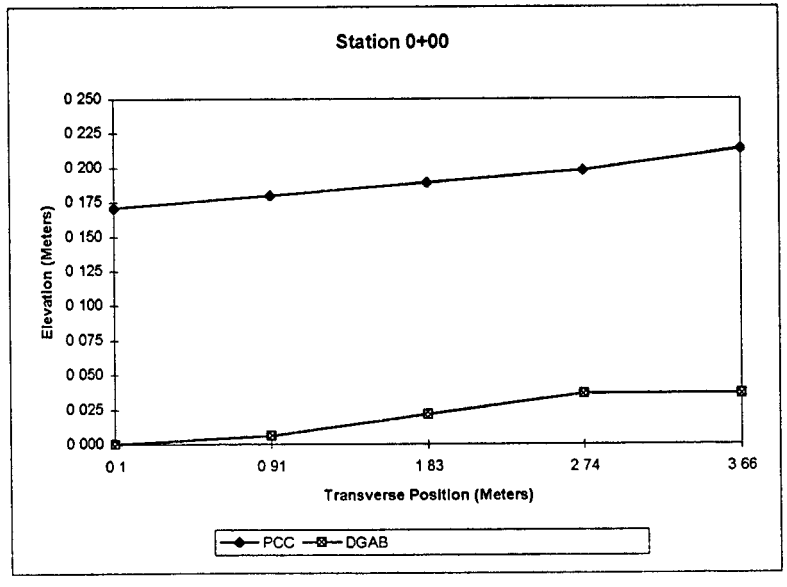
SURFACE PROFILE DATA

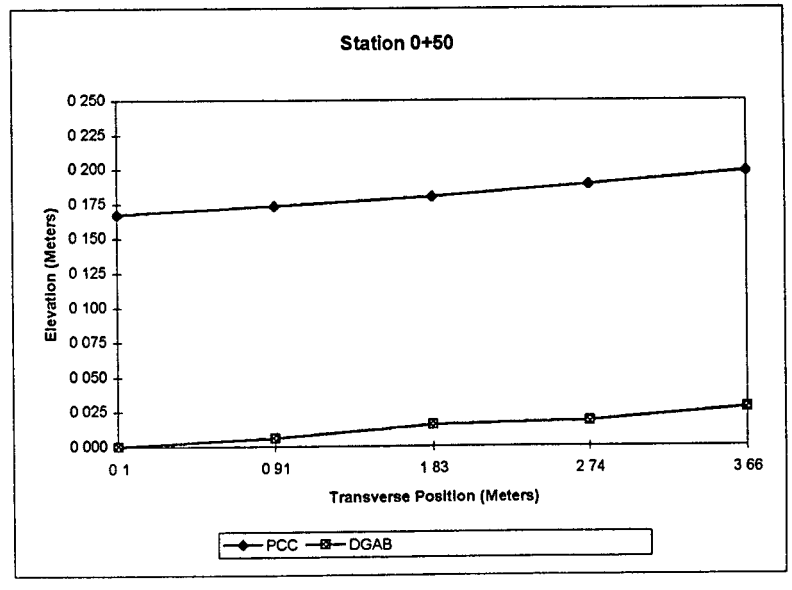
Arkansas SPS-2 (050201)

Transverse Offset	2 LAYERS	ELEVATION 0 1 Meters	PCC THICKNESS Meters	ELEVATION 0 91 Meters	PCC THICKNESS Meters	ELEVATION 1 83 Meters	PCC THICKNESS Meters	ELEVATION 2 74 Meters	PCC THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters
0 -50	PCC	0 336	0 149	0 349	0 137	0 361	0 134	0 373	0.134	0 385	0 128
	DGAB	0 187		0 211		0 227		0 239		0 257	
0+00	PCC	0 452	0 171	0 461	0 174	0 471	0 168	0 480	0 162	0 495	0.177
	DGAB	0 282		0 288		0 303		0 318		0 318	
0+50	PCC	0 528	0 168	0 535	0 168	0 541	0 165	0 550	0 171	0 559	0.171
	DGAB	0 361		0 367		0 376		0 379		0 388	
1+00	PCC	0 596	0 186	0.605	0.186	0 608	0 177	0 614	0 171	0 623	0 168
	DGAB	0 410		0 419		0.431		0 443		0.455	
1+50	PCC	0 611	0 177	0 617	0.177	0 626	0 177	0 632	0 177	0.641	0.165
	DGAB	0 434		0 440		0 449		0.455		0.477	
2+00	PCC	0 638	0.198	0 644	0.192	0 650	0.186	0 660	0.177	0 672	0 186
	DGAB	0 440		0 452		0 464		0.483		0.486	
2+50	PCC	0 620	0.192	0.632	0 213	0 644	0.189	0 656	0.186	0 669	0.180
	DGAB	0 428		0 419		0 455		0.471		0.489	
3+00	PCC	0 583	0.192	0 596	0 192	0 605	0 186	0 614	0.177	0.626	0.177
	DGAB	0 391		0 403		0.419		0.437		0.449	
3+50	PCC	0.547	0 207	0.553	0 207	0 562	0 201	0 571	0 204	0 580	0.195
	DGAB	0 339		0 346		0 361		0 367		0.385	
4+00	PCC	0 486	0 198	0 495	0 201	0 501	0 195	0 510	0.198	0.522	0.195
	DGAB	0 288		0 294		0 306		0 312		0.327	
4+50	PCC	0 422	0 210	0 428	0 204	0 434	0 195	0 440	0.192	0.452	0.195
	DGAB	0 211		0 224		0 239		0 248		0.257	
5+00	PCC	0 346	0.198	0 358	0 198	0 364	0 195	0.373	0.192	0.385	0 198
	DGAB	0 147		0 160		0 169		0 181		0 187	
5+50	PCC	0 294	0 201	0 300	0 195	0 309	0 186	0 318	0 189	0.330	0 189
	DGAB	0 093		0 105		0 123		0 129		0 141	
	AVG		0.188		0.188		0.181		0.179		0.178
	MAX		0.210		0.213		0.201		0.204		0.198
	MIN		0.149		0.137		0.134		0.134		0.128
	STD		0 017		0.020		0.018		0.018		0 019

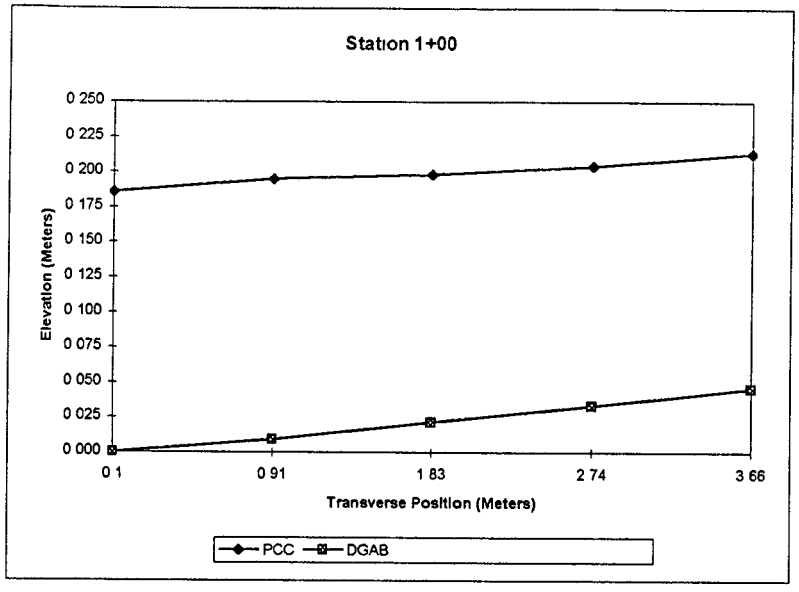
Arkansas SPS-2 (050201)

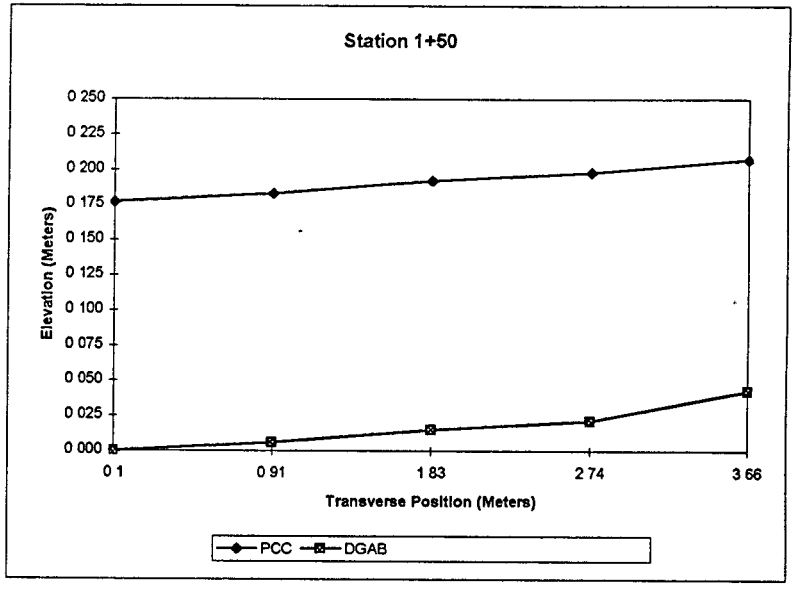


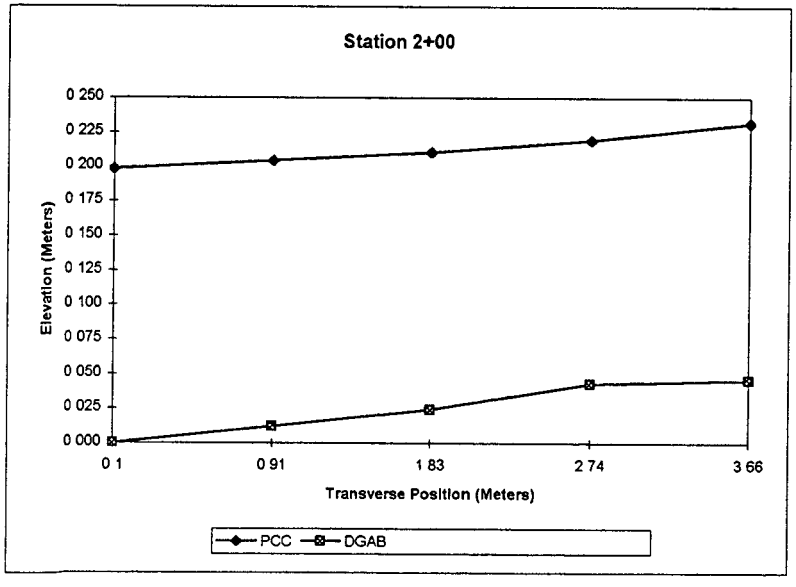


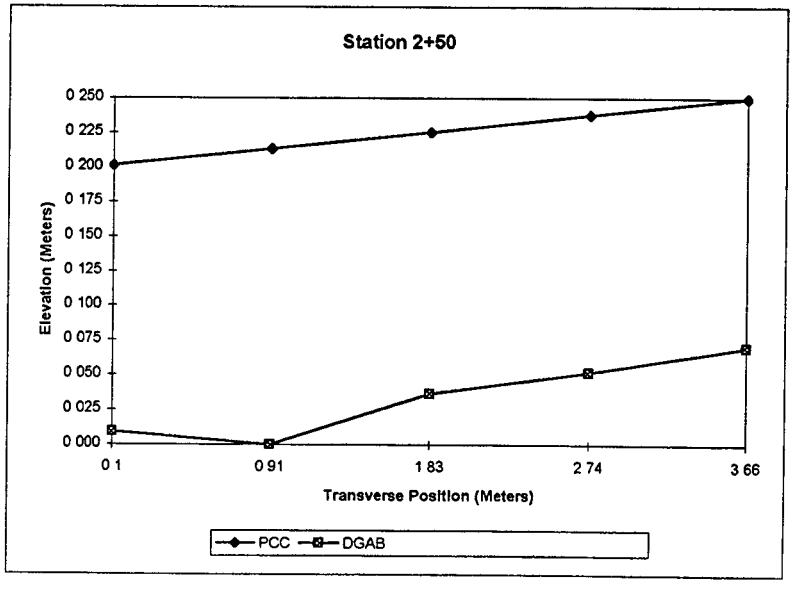


Arkansas SPS-2 (050201)

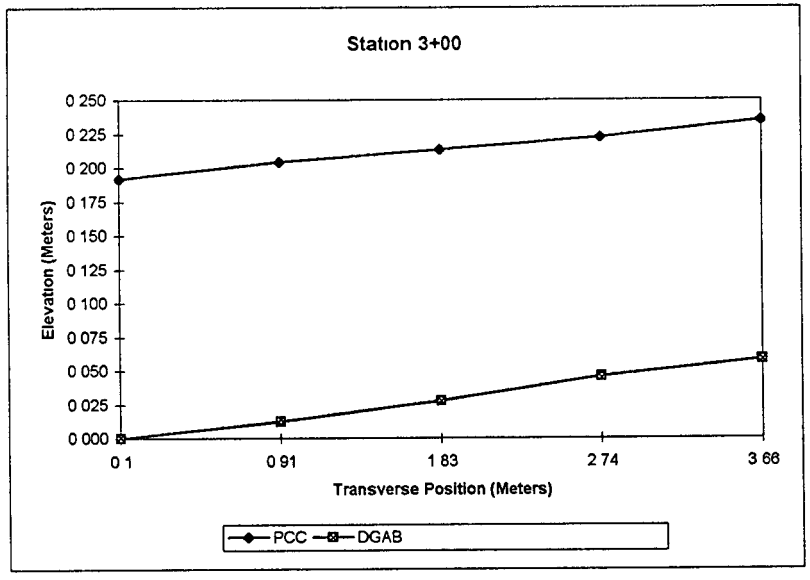


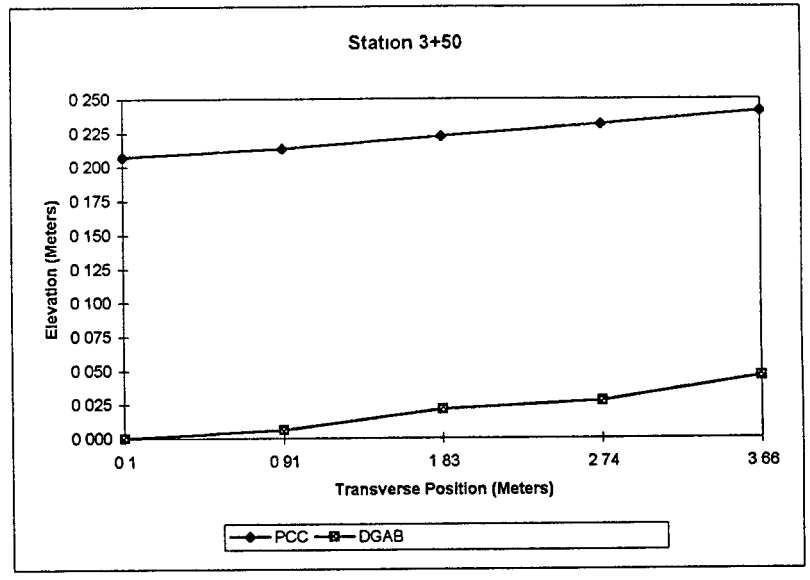


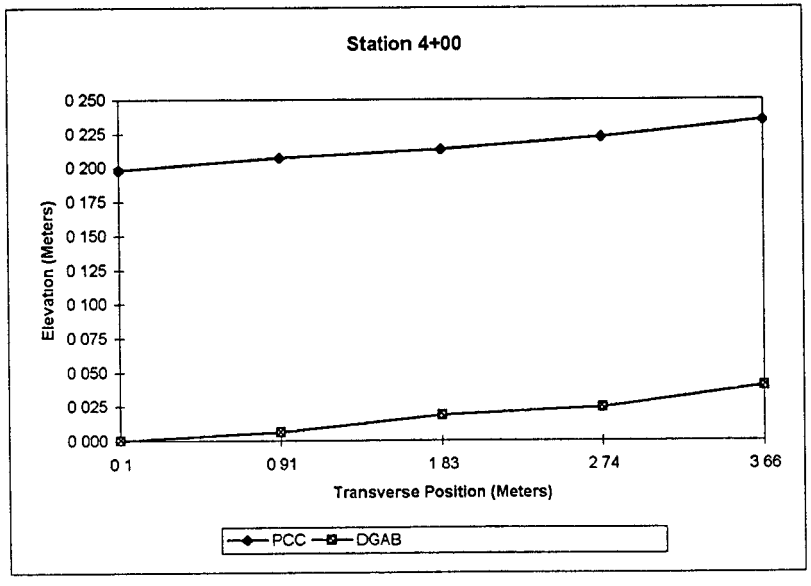


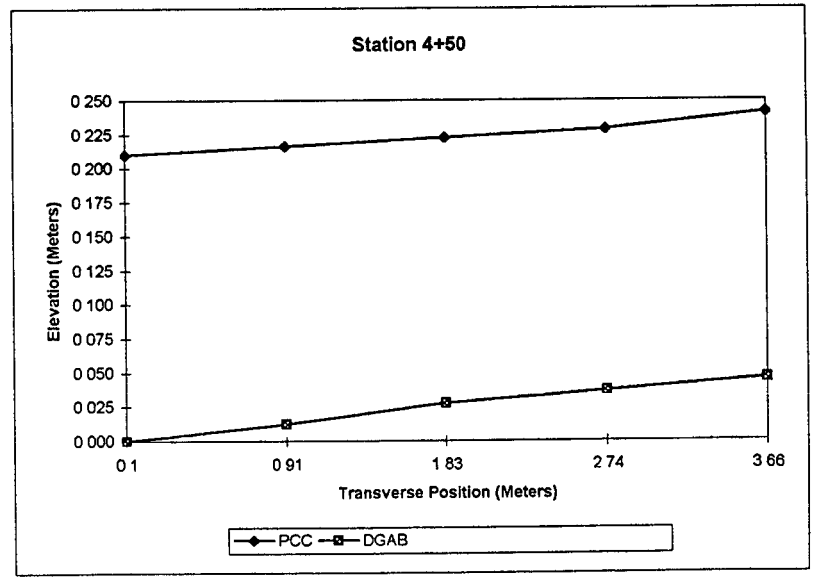


Arkansas SPS-2 (050201)









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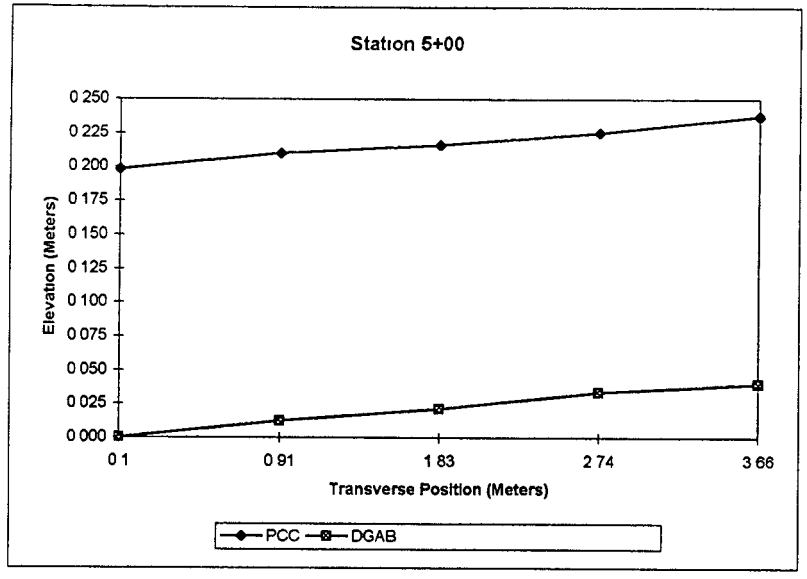
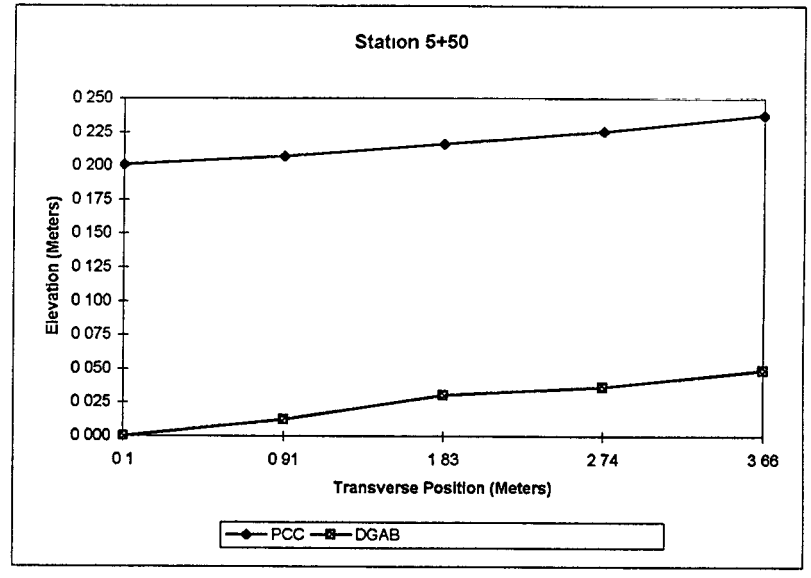
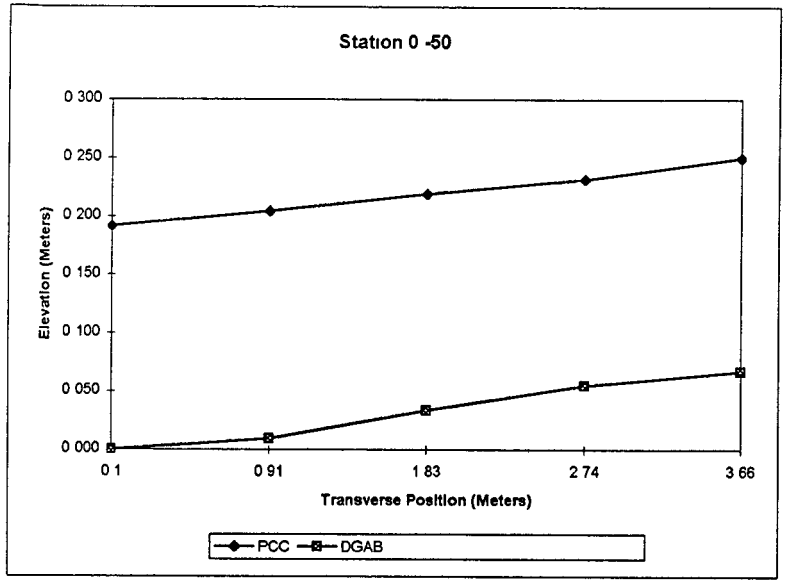


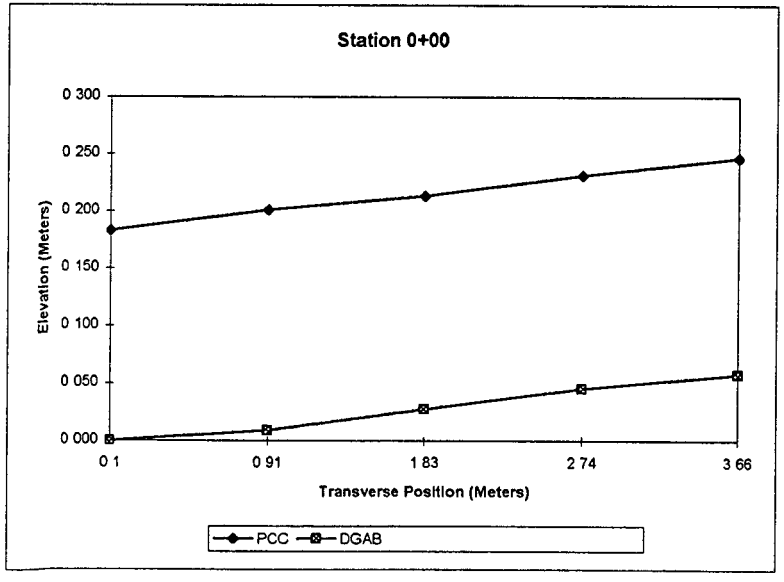


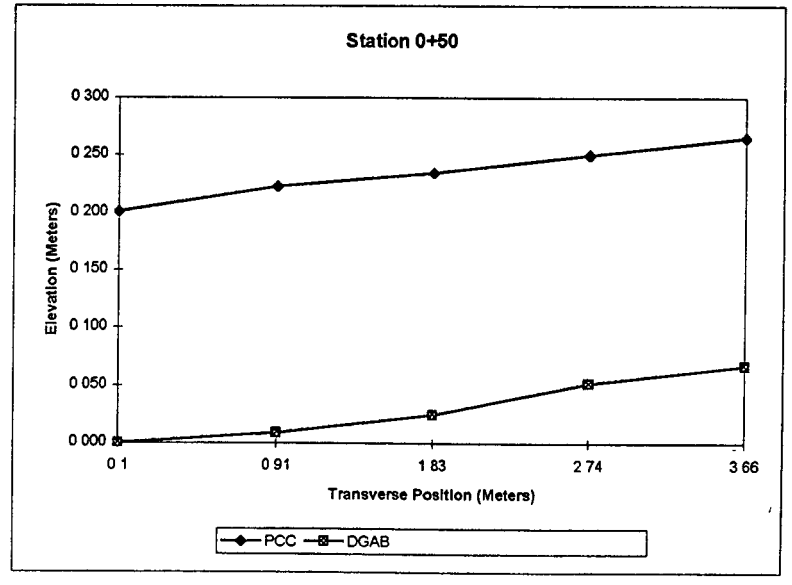
Arkansas SPS-2 (050202)

Transverse Offset	2 LAYERS	ELEVATION 0 1 Meters	PCC THICKNESS Meters	ELEVATION 0 91 Meters	PCC THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	ELEVATION 3 66 Meters	PCC THICKNESS Meters
0 -50	PCC	3 875	0 192	3 887	0 195	3 903	0 186	3 915	0 177	3 933	0 183
	DGAB	3 683		3 692		3 717		3 738		3 750	
0+00	PCC	3 561	0 183	3 579	0 192	3 592	0 186	3 610	0 186	3 625	0 189
	DGAB	3 378		3 387		3 406		3 424		3 436	
0+50	PCC	3.250	0 201	3 272	0 213	3 284	0 210	3 299	0 198	3 314	0.198
	DGAB	3 049		3 058		3 073		3 101		3 116	
1+00	PCC	2.952	0 189	2 967	0 189	2.982	0.189	2 997	0 189	3 013	0.186
	DGAB	2 763		2 778		2 793		2 808		2.827	
1+50	PCC	2.641	0 198	2 659	0 201	2 674	0.195	2 692	0 192	2 708	0 195
	DGAB	2.443		2 458		2.479		2.500		2 513	
2+00	PCC	2.342	0 201	2.357	0.198	2.372	0.198	2.391	0.204	2.406	0.198
	DGAB	2.141		2 159		2 174		2.186		2 208	
2+50	PCC	2 037	0.186	2 055	0 195	2 074	0.189	2 089	0.186	2.104	0.177
	DGAB	1.851		1 860		1.885		1 903		1 927	
3+00	PCC	1.738	0 183	1.757	0.186	1.772	0.198	1 787	0.189	1 802	0.180
	DGAB	1.556		1 571		1.574		1 598		1.623	
3+50	PCC	1.437	0 189	1.458	0.198	1.473	0.198	1 485	0.189	1.501	0 183
	DGAB	1.248		1 260		1.275		1 296		1.318	
4+00	PCC	1.132	0 201	1.150	0 204	1 165	0.201	1.181	0.198	1 202	0 204
	DGAB	0 931		0 946		0 964		0 983		0.998	
4+50	PCC	0 839	0 216	0 855	0 213	0 873	0 219	0 888	0.207	0 906	0 207
	DGAB	0 623		0 641		0 653		0 681		0 699	
5+00	PCC	0 531	0 204	0 553	0 213	0 565	0 207	0 580	0 201	0 595	0 198
	DGAB	0 327		0 339		0 358		0 379		0 397	
5+50	PCC	0 233	0 219	0 251	0 216	0 263	0 210	0 278	0 201	0 297	0 198
	DGAB	0 013		0 035		0 053		0.077		0 099	
		AVG	0.197		0.201		0.199		0.193		0.192
		MAX	0.219		0.216		0.219		0.207		0.207
		MIN	0.183		0.186		0.186		0.177		0.177
		STD	0.011		0.010		0.010		0.008		0.010

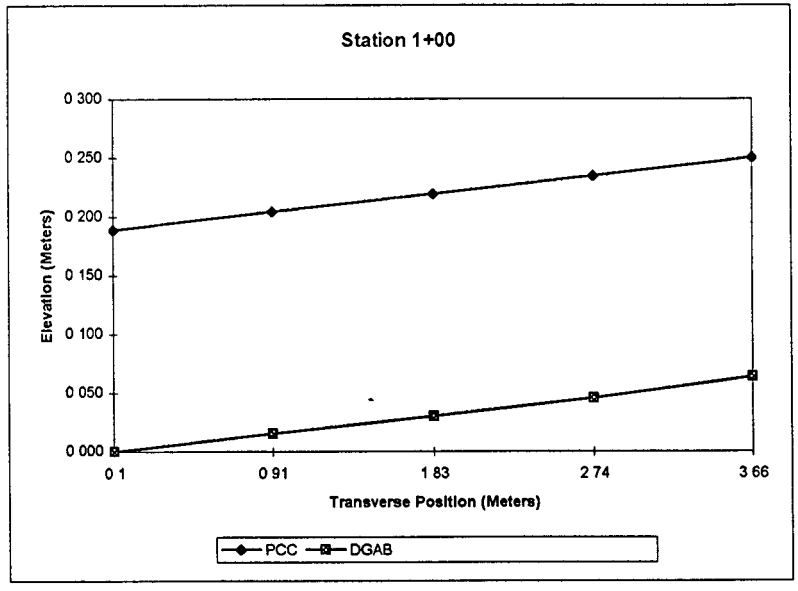
Arkansas SPS-2 (050202)

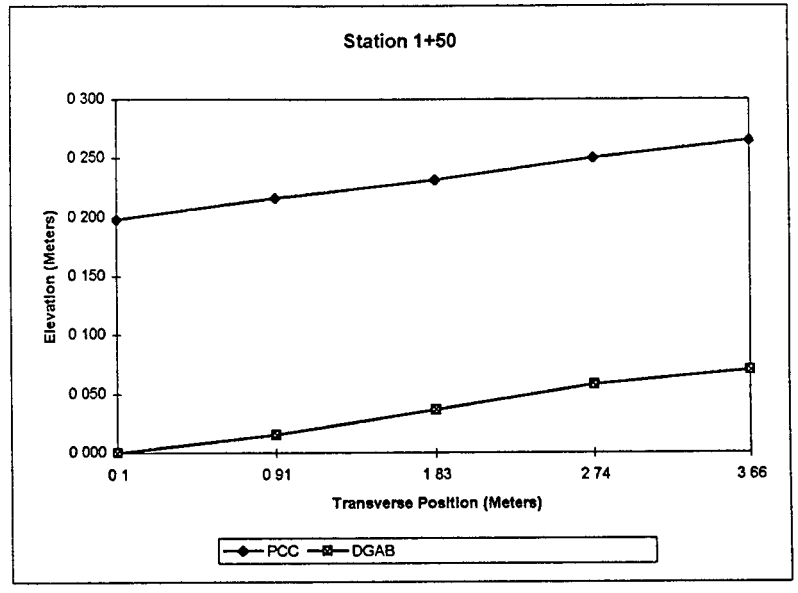


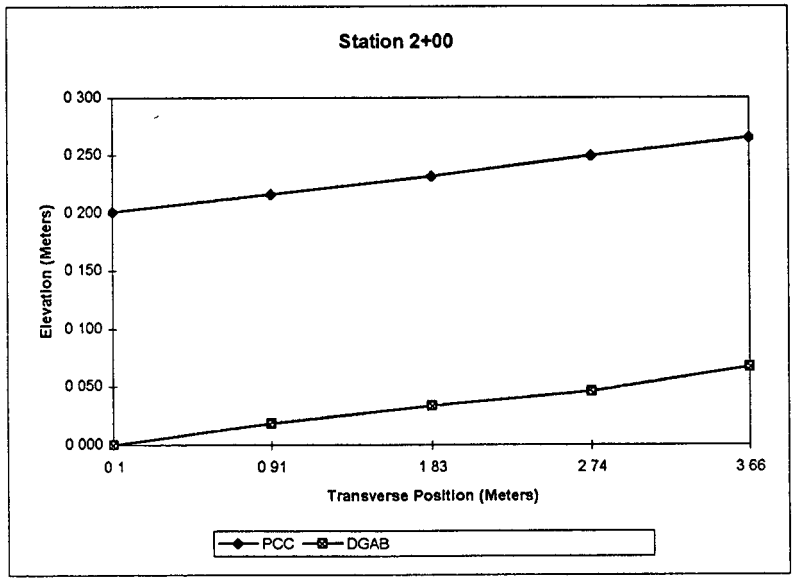


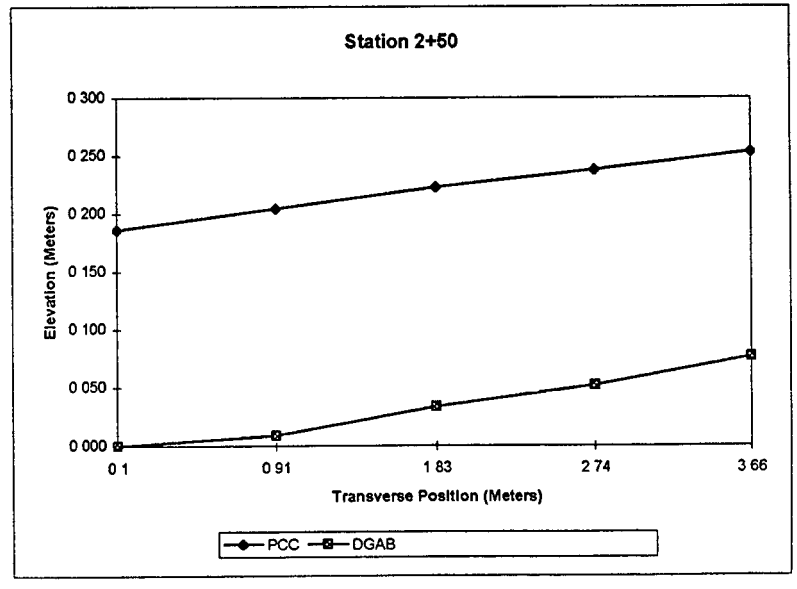


Arkansas SPS-2 (050202)









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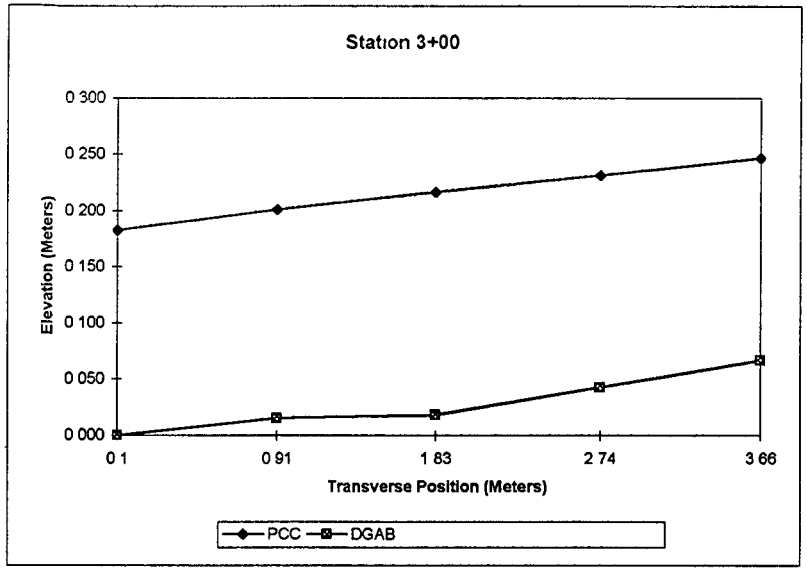

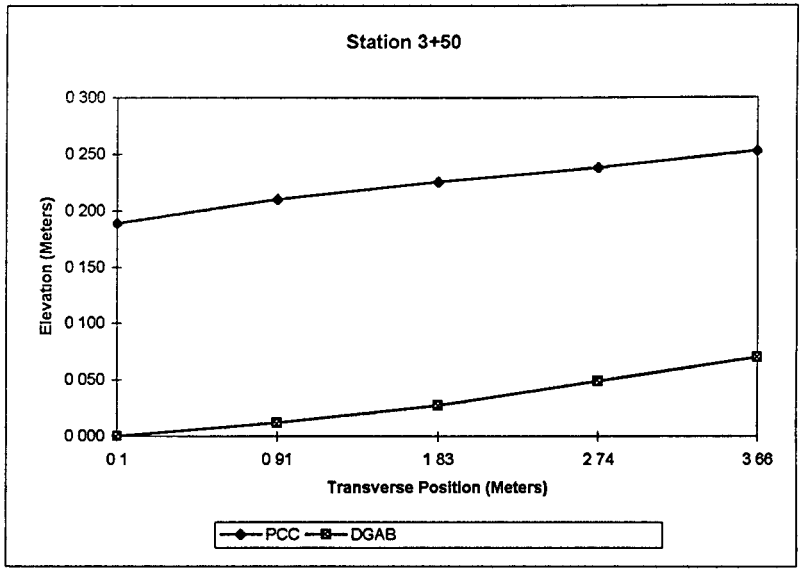

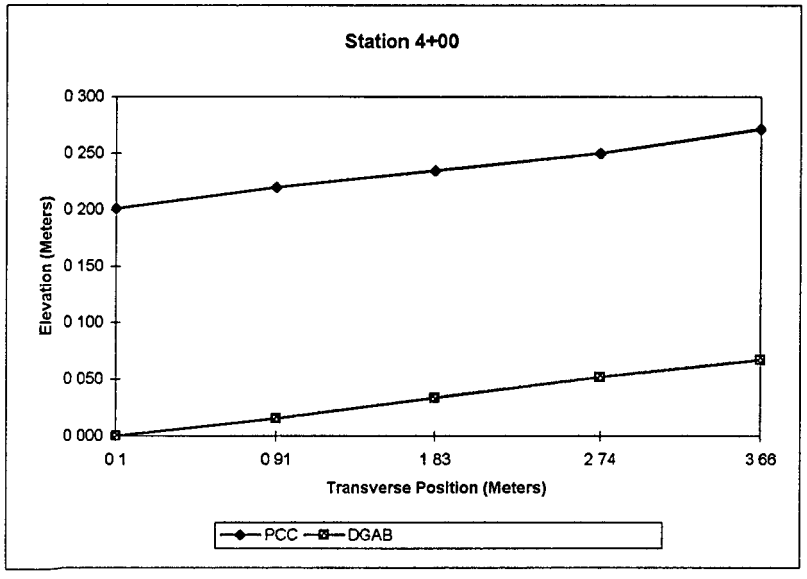

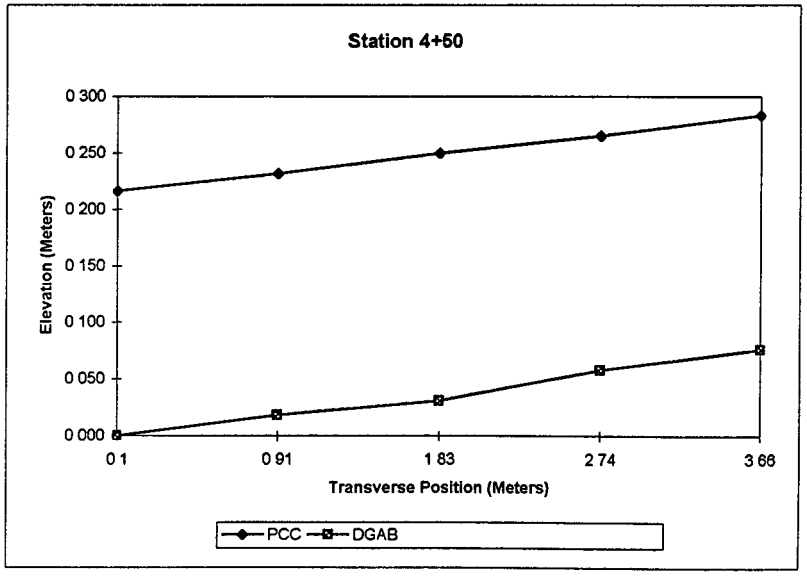

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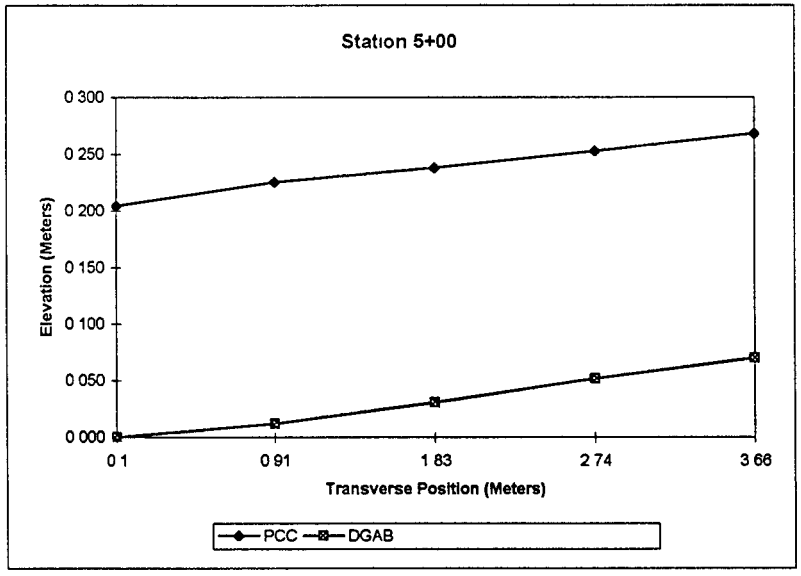
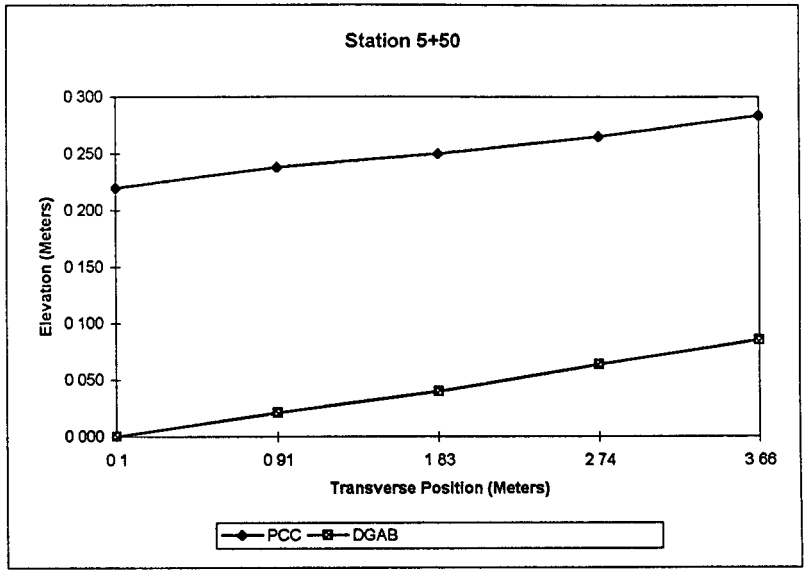
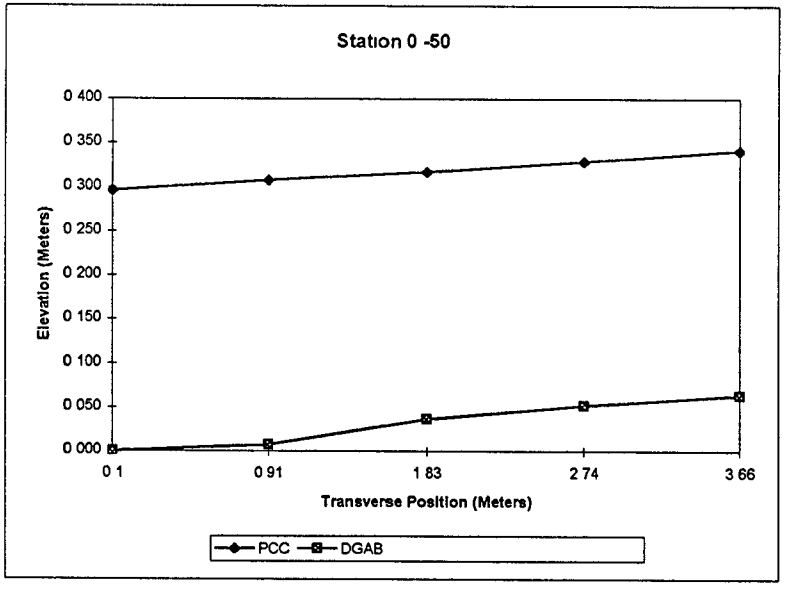


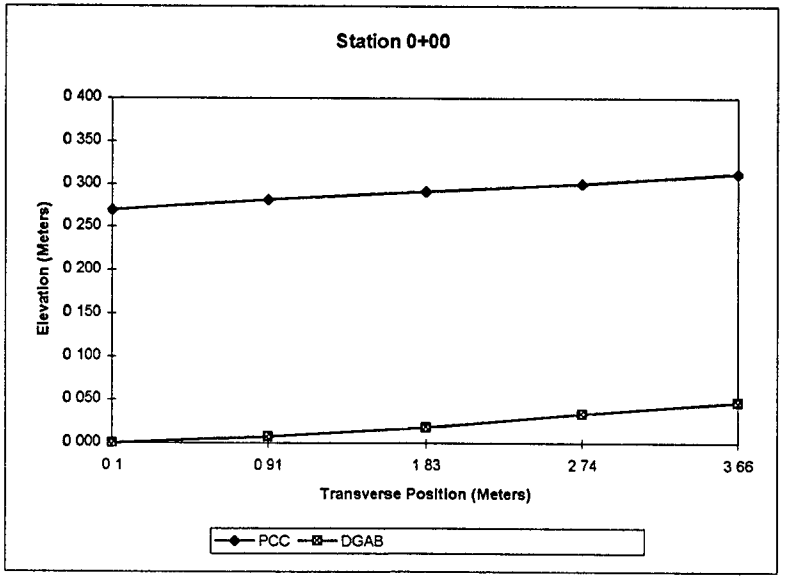


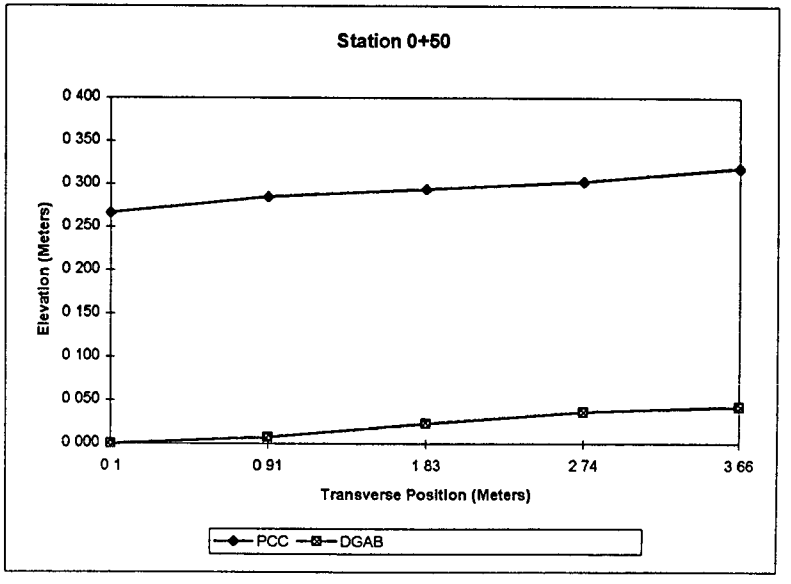
Arkansas SPS-2 (050203)

Transverse Offset	2 LAYERS	ELEVATION 0 1 Meters	PCC THICKNESS Meters	ELEVATION 0 91 Meters	PCC THICKNESS Meters	ELEVATION 1 83 Meters	PCC THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters
0 -50	PCC	0 370	0 296	0 382	0 300	0 391	0 280	0.404	0 277	0 416	0 277
	DGAB	0 074		0 082		0 111		0 126		0.138	
0+00	PCC	0 425	0.270	0 437	0 274	0 446	0 273	0 455	0 267	0 468	0 265
	DGAB	0 155		0 163		0.173		0.189		0 202	
0+50	PCC	0 458	0.267	0 477	0 277	0 486	0.271	0.495	0 267	0 510	0.276
	DGAB	0 192		0.199		0 215		0 228		0 234	
1+00	PCC	0 504	0 274	0.513	0.277	0 526	0 273	0.535	0 256	0.547	0.268
	DGAB	0 230		0 236		0 253		0.279		0.279	
1+50	PCC	0 544	0.267	0 553	0 273	0 565	0.270	0 577	0 274	0.590	0.270
	DGAB	0 277		0 280		0 295		0.303		0 320	
2+00	PCC	0.565	0 242	0 590	0 274	0 599	0.270	0 611	0.262	0.623	0.261
	DGAB	0 323		0 315		0 329		0 349		0.362	
2+50	PCC	0 608	0.287	0 617	0 302	0 623	0 285	0 635	0 283	0 644	0 279
	DGAB	0 321		0 315		0 338		0 352		0 366	
3+00	PCC	0 593	0 265	0 608	0 290	0 617	0.288	0 626	0.276	0 635	0 273
	DGAB	0 327		0 318		0 329		0 350		0 362	
3+50	PCC	0 562	0.265	0.586	0 291	0 596	0 290	0 608	0.288	0.617	0.280
	DGAB	0 297		0 295		0 306		0.320		0 337	
4+00	PCC	0 529	0 276	0.541	0 282	0 547	0 273	0.559	0 274	0 571	0.276
	DGAB	0 253		0 259		0 274		0.285		0 295	
4+50	PCC	0 458	0 258	0 480	0 279	0 492	0 273	0 501	0 270	0 568	0 328
	DGAB	0 201		0 201		0 219		0 231		0.241	
5+00	PCC	0 398	0 268	0.407	0 280	0 416	0 274	0 425	0.270	0 434	0.267
	DGAB	0 129		0 126		0 141		0 155		0.167	
5+50	PCC	0 303	0.270	0 315	0 282	0 324	0 274	0 337	0.273	0.349	0 267
	DGAB	0 033		0 033		0 050		0.064		0.082	
	AVG		0.270		0.284		0.277		0.273		0.277
	MAX		0.296		0.302		0.290		0.288		0.328
	MIN		0.242		0.273		0.270		0.256		0.265
	STD		0.012		0.009		0.007		0.008		0.016

Arkansas SPS-2 (050203)







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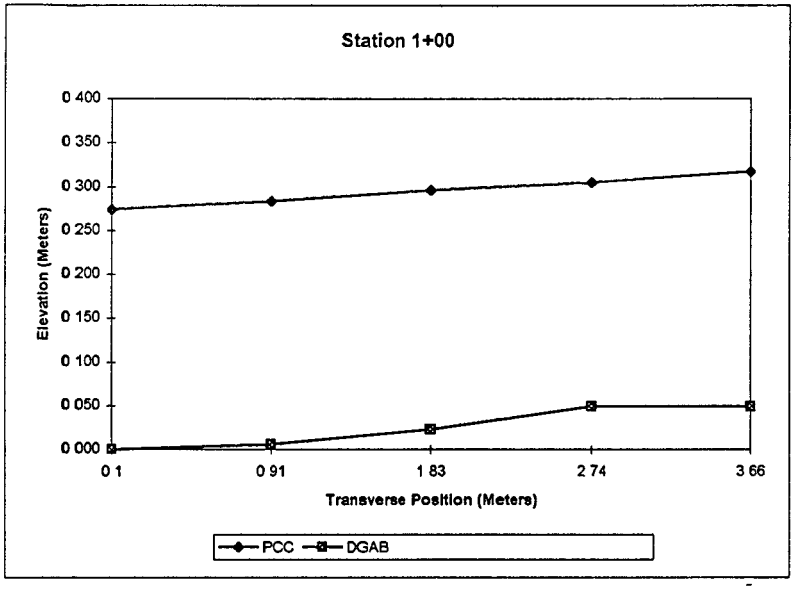

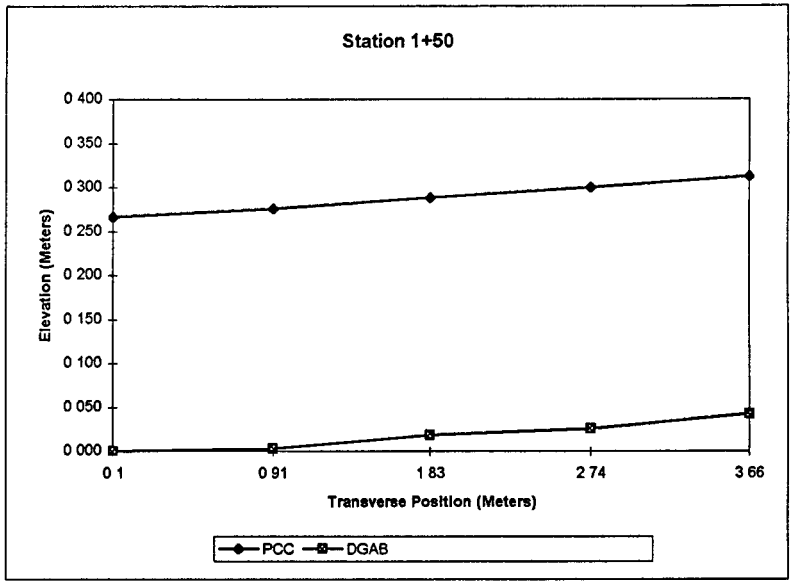

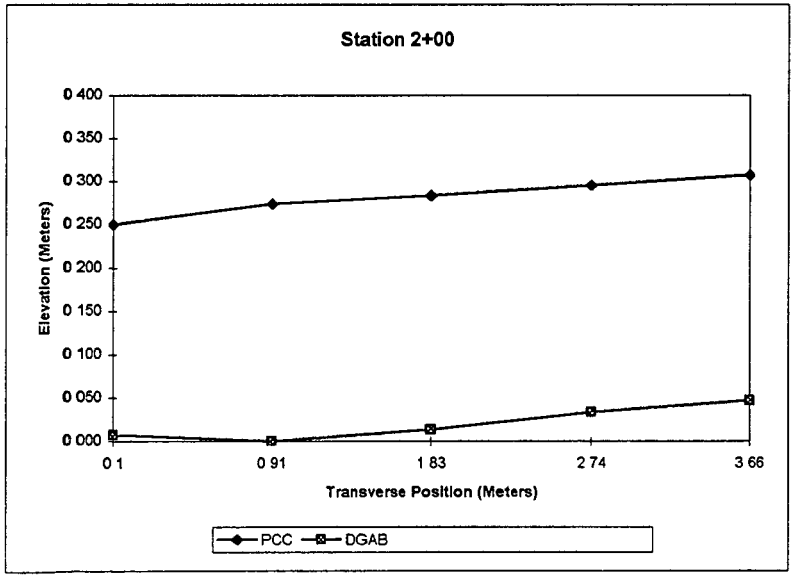

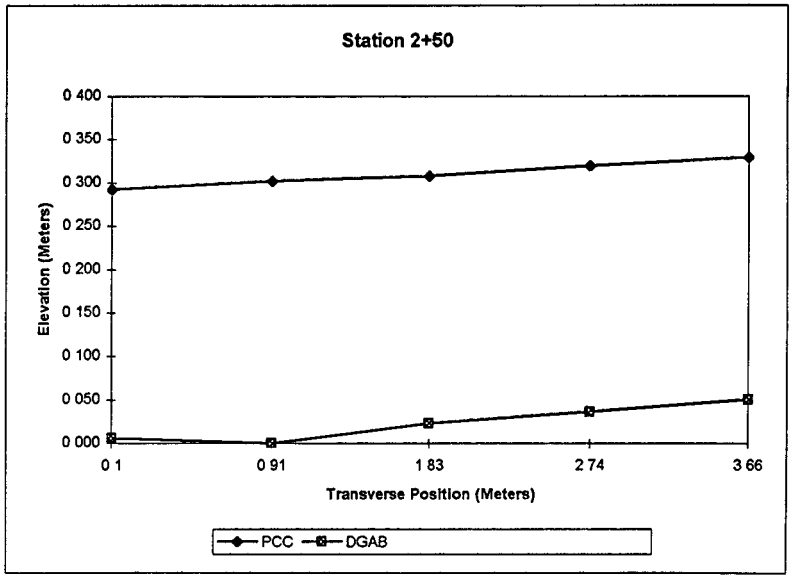

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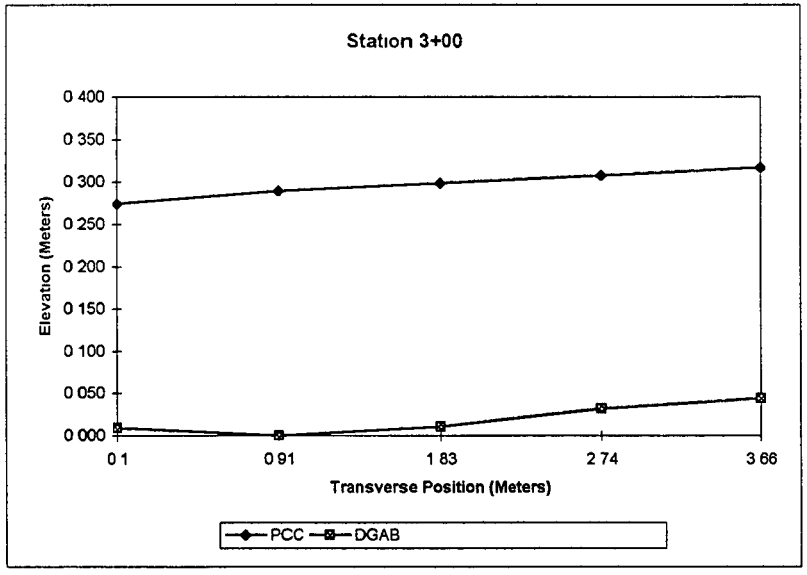
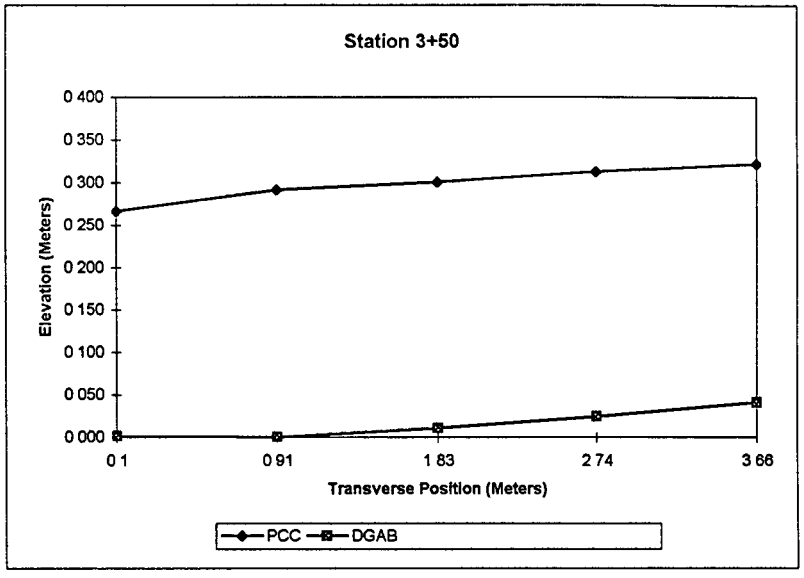
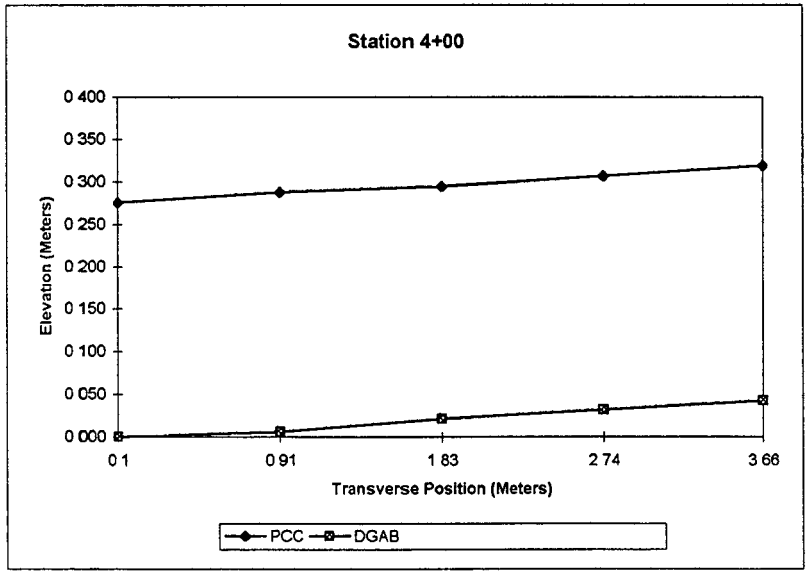
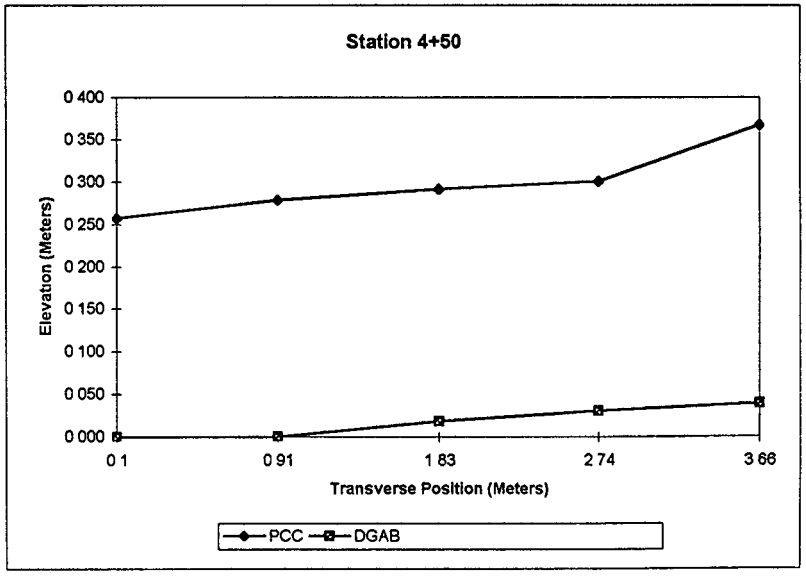
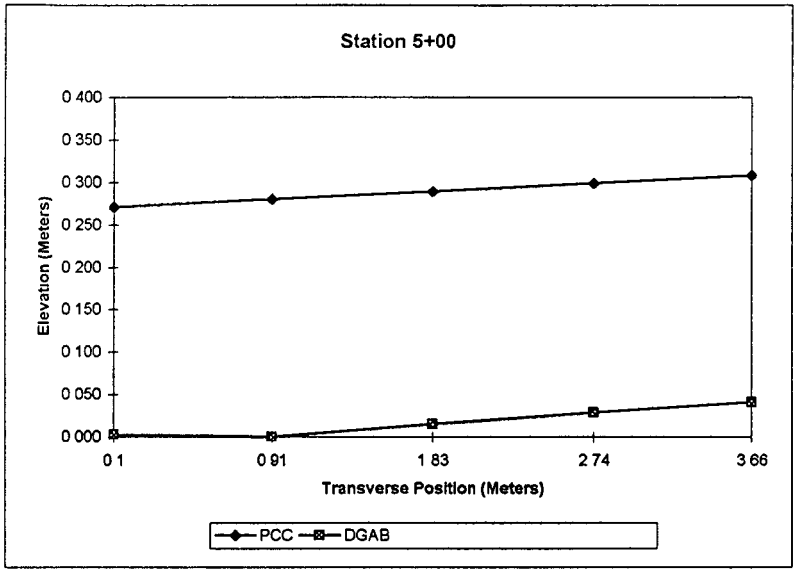


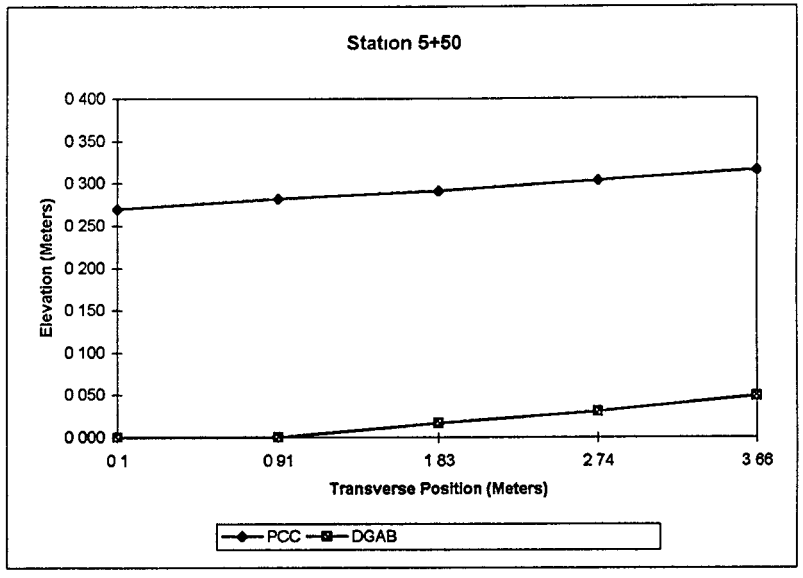






Arkansas SPS-2 (050203)

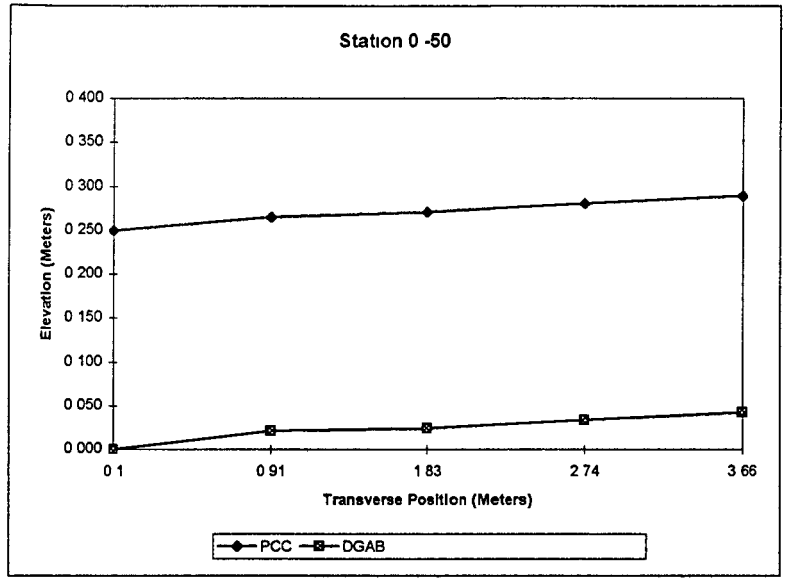


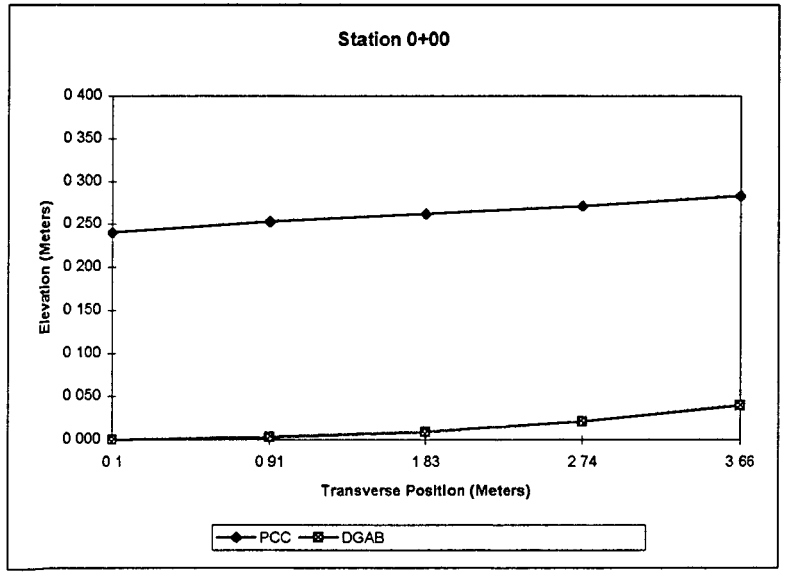


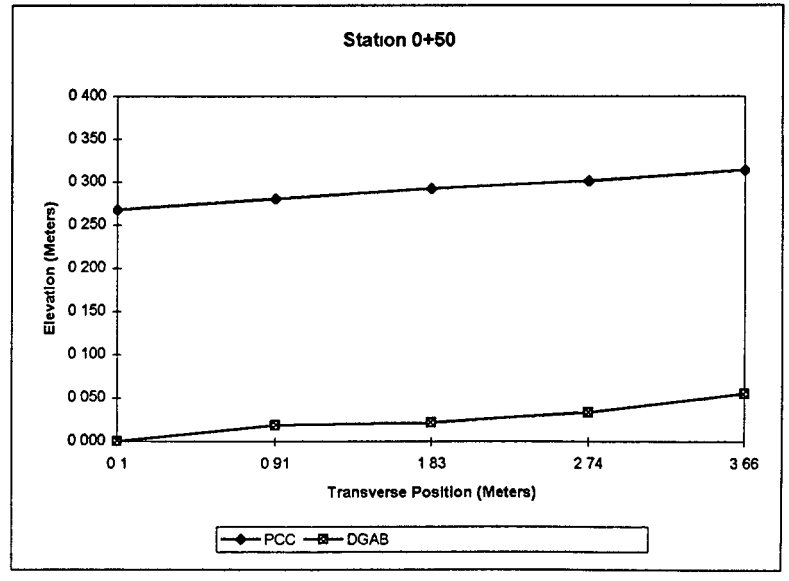
Arkansas SPS-2 (050204)

Transverse Offset	2 LAYERS	ELEVATION 0 1 Meters	PCC THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	ELEVATION 3 66 Meters	PCC THICKNESS Meters
0 -50	PCC	0 298	0 250	0 314	0 244	0 320	0 247	0 329	0 247	0 338	0 247
	DGAB	0 048		0 070		0 073		0 082		0 091	
0+00	PCC	0 722	0 241	0.734	0 250	0 743	0 253	0 753	0 250	0.765	0.244
	DGAB	0 481		0 484		0 490		0 503		0 521	
0+50	PCC	1 164	0 268	1.176	0 262	1.188	0 271	1.198	0 268	1.210	0.259
	DGAB	0 896		0 914		0 917		0 929		0 951	
1+00	PCC	1 600	0 271	1 609	0 268	1.621	0 277	1 633	0.268	1.649	0.277
	DGAB	1 329		1.341		1 344		1 365		1.371	
1+50	PCC	2 042	0 265	2 054	0 268	2.063	0.271	2 075	0.268	2 091	0.274
	DGAB	1 777		1.786		1 792		1.807		1 816	
2+00	PCC	2 481	0 277	2.493	0 277	2 502	0.271	2 511	0.265	2 523	0.262
	DGAB	2 203		2.216		2 231		2.246		2 261	
2+50	PCC	2 898	0 287	2.914	0 277	2.923	0 271	2 935	0.265	2.947	0 277
	DGAB	2 612		2 636		2.651		2 670		2 670	
3+00	PCC	3 285	0 277	3 298	0 271	3.310	0 274	3 319	0 271	3 331	0.271
	DGAB	3 008		3 026		3 036		3.048		3.060	
3+50	PCC	3 648	0 256	3 660	0 259	3 673	0 259	3.685	0 259	3.703	0.262
	DGAB	3 392		3 401		3 413		3.426		3 441	
4+00	PCC	3 993	0 262	4 005	0 259	4 014	0 262	4 026	0 262	4.038	0.259
	DGAB	3 730		3.746		3.752		3.764		3.779	
4+50	PCC	4 322	0 280	4 334	0 271	4 343	0.268	4 355	0 268	4 367	0 274
	DGAB	4 041		4 063		4 075		4 087		4.093	
5+00	PCC	4 627	0 265	4 639	0 262	4 648	0 262	4 660	0 259	4 675	0 265
	DGAB	4 361		4 377		4 386		4 401		4 410	
5+50	PCC	4 919	0 271	4 928	0 268	4 941	0 268	4 953	0 268	4 965	0 259
	DGAB	4 648		4 660		4 672		4 684		4 706	
		AVG	0.267		0.263		0.265		0.263		0.264
		MAX	0.287		0.277		0.277		0.271		0.277
		MIN	0.241		0.244		0.247		0.247		0.244
		STD	0 012		0.009		0.009		0.007		0.011

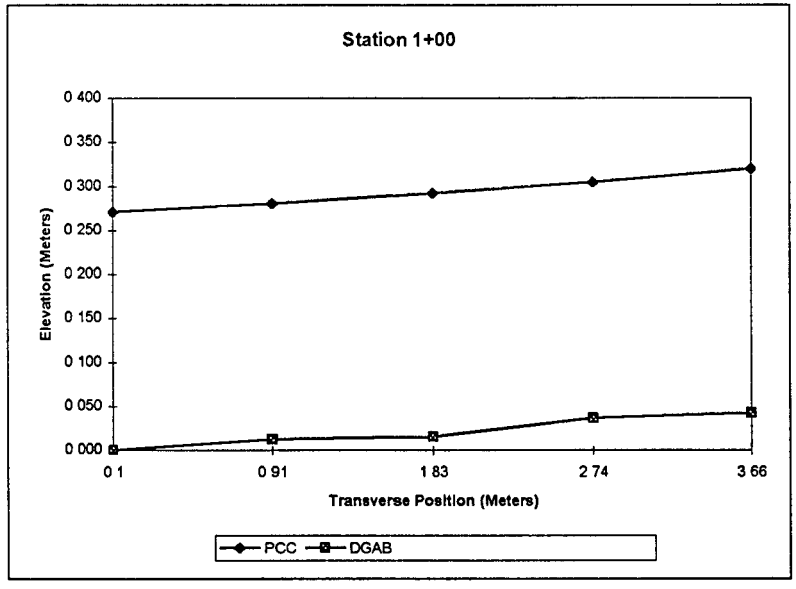
Arkansas SPS-2 (050204)

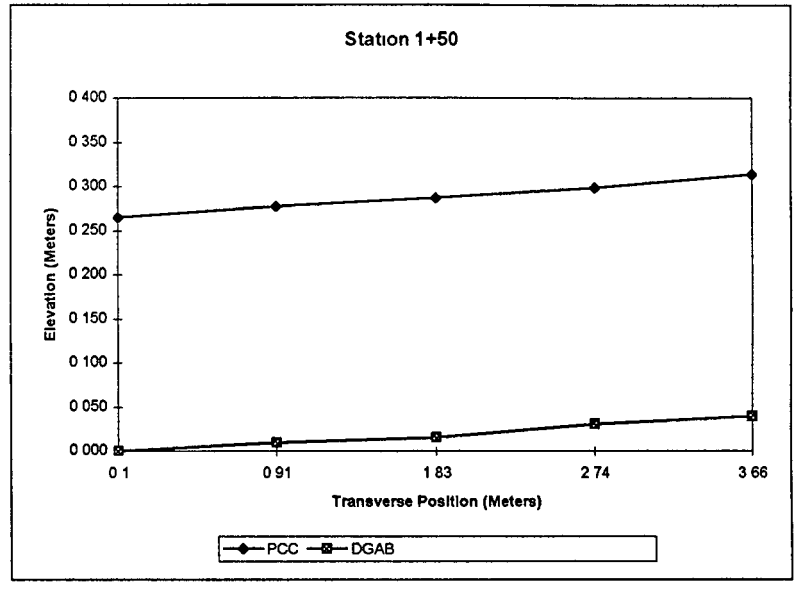


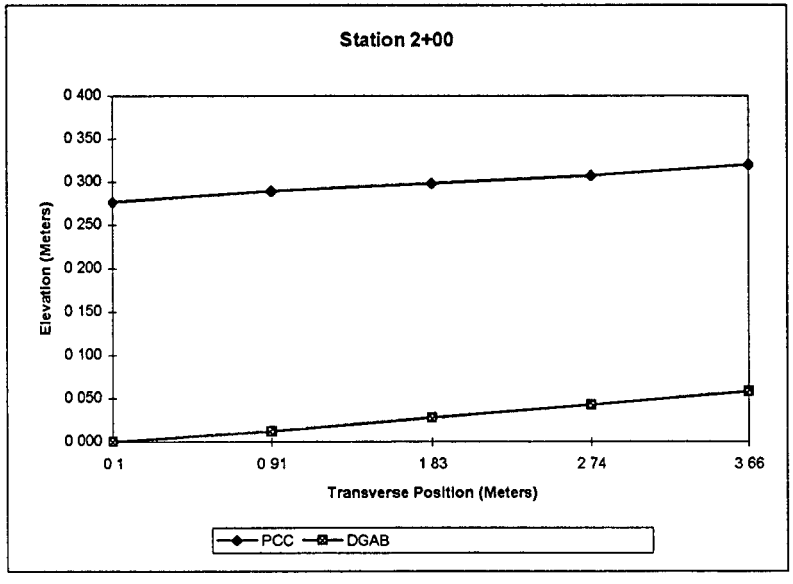


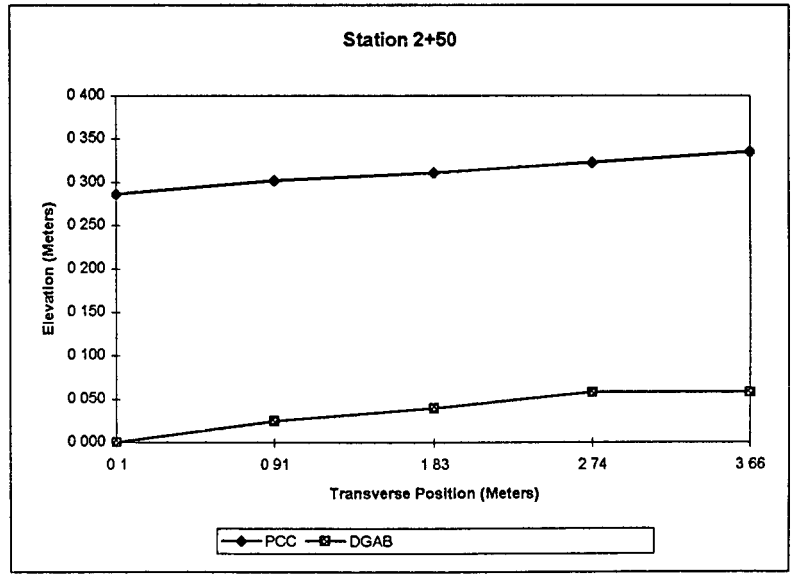


Arkansas SPS-2 (050204)

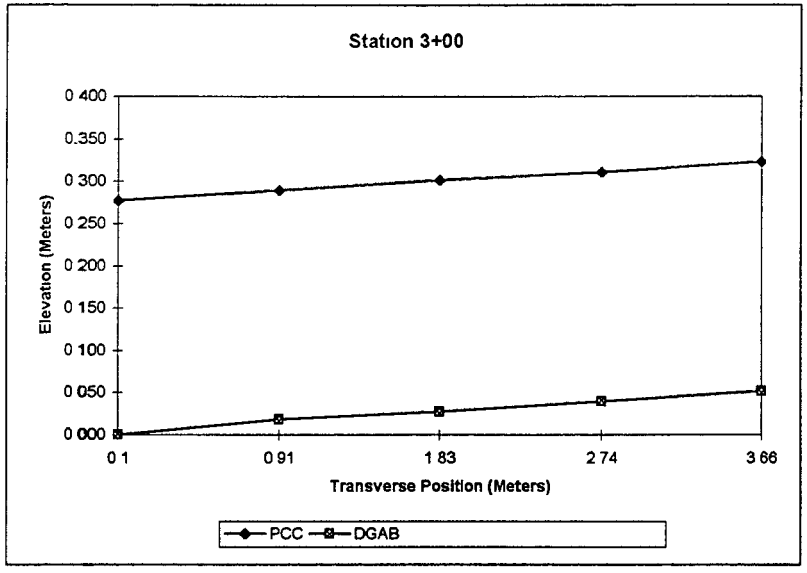


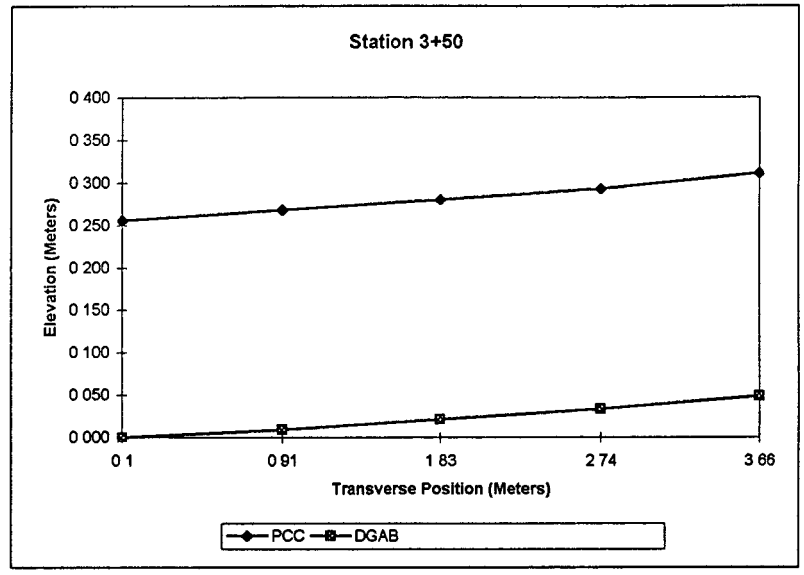


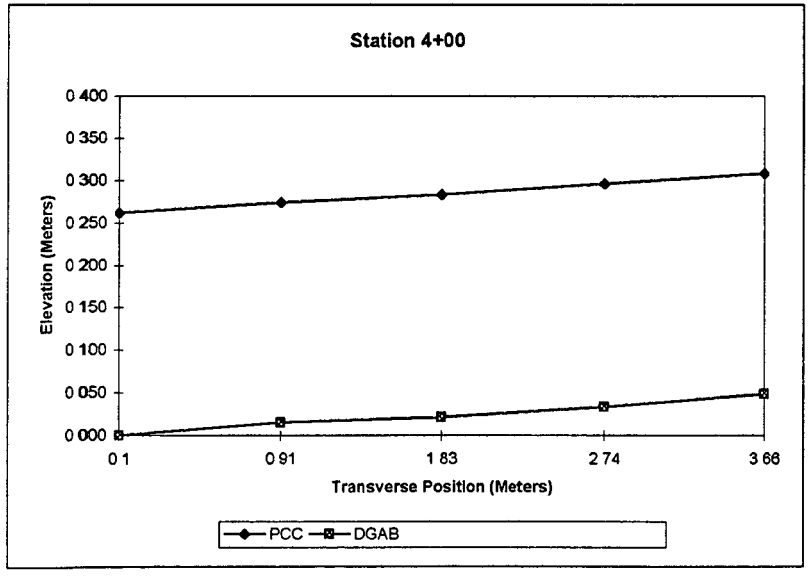


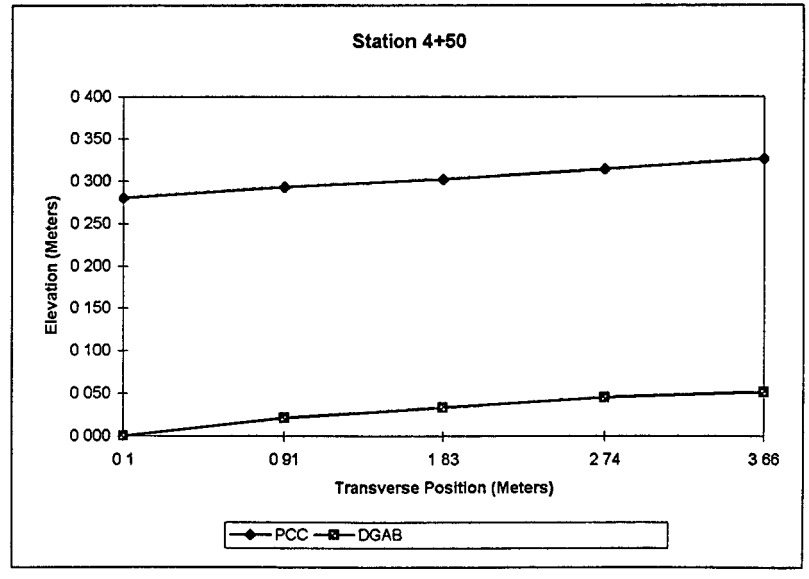


Arkansas SPS-2 (050204)

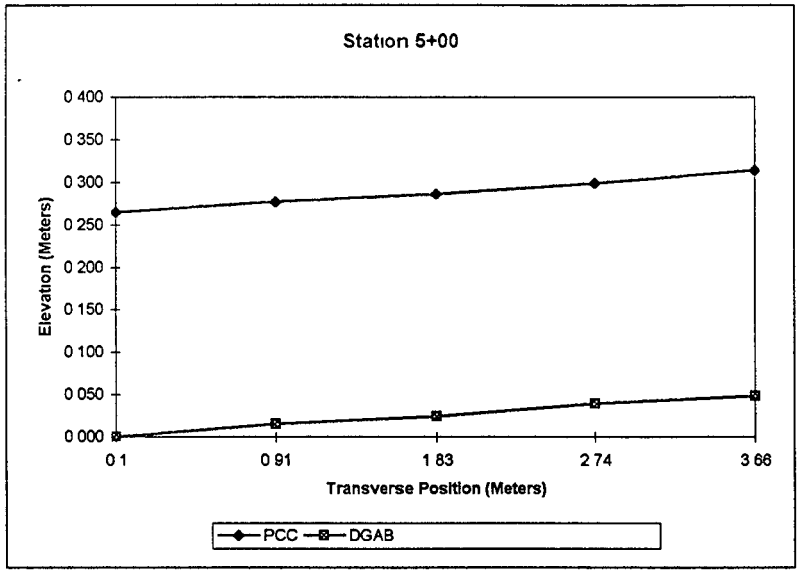


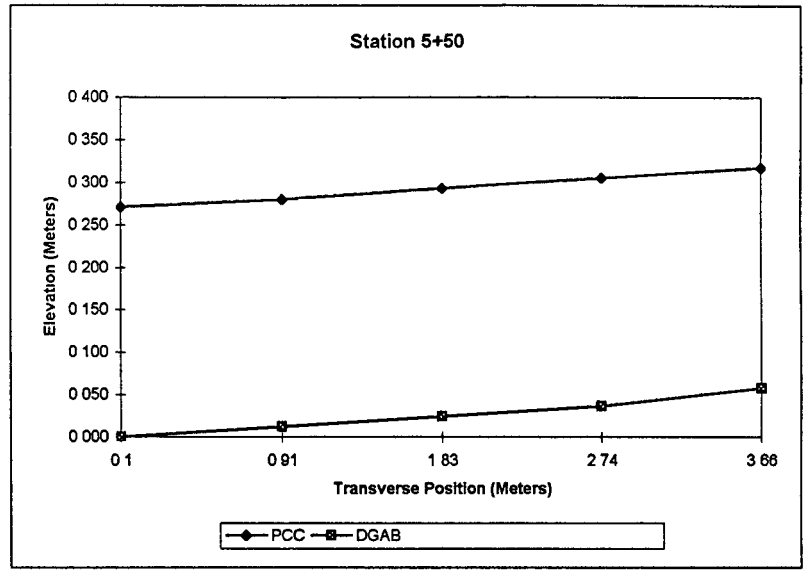






Arkansas SPS-2 (050204)

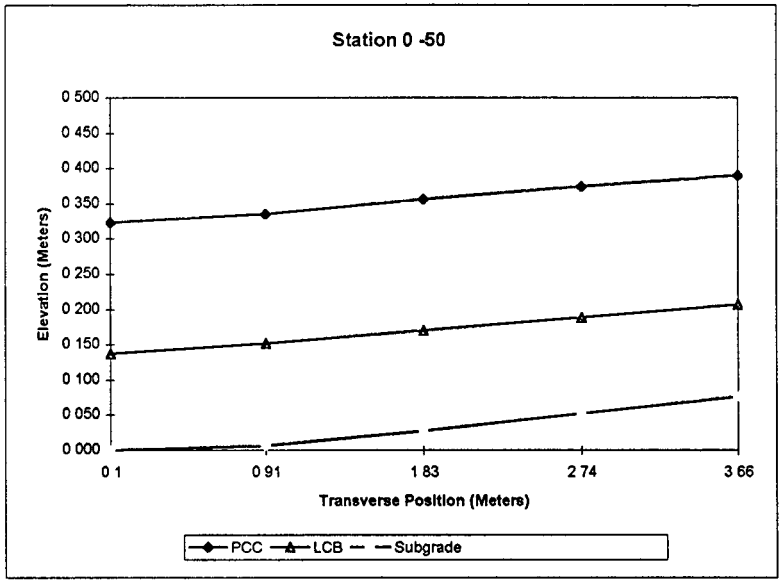


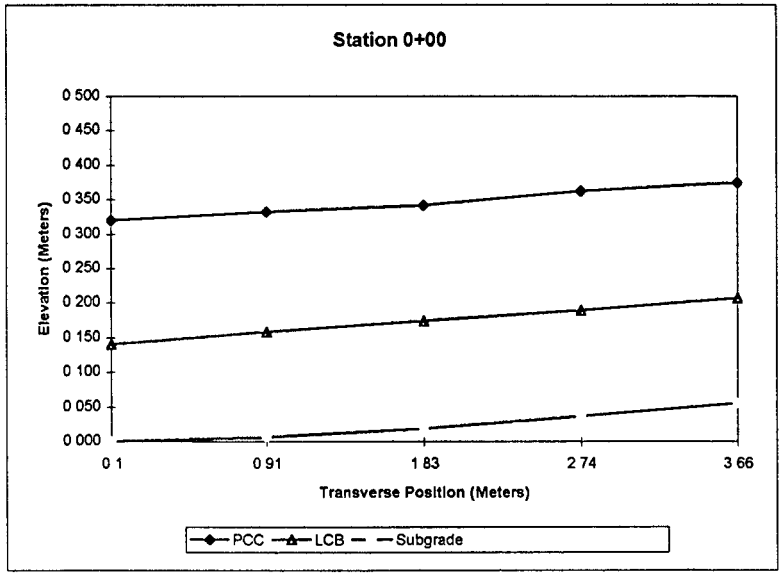


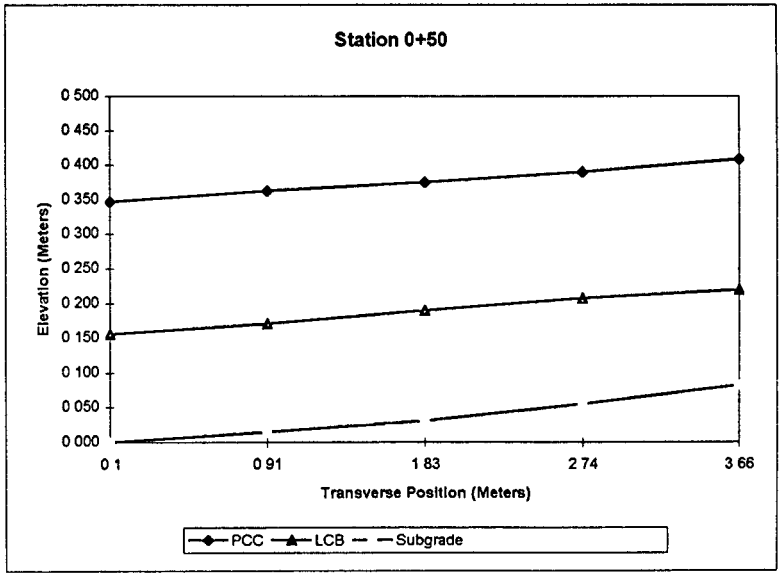
Arkansas SPS-2 (050205)

Transverse Offset	3 LAYERS	ELEVATION 0.1 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters
0 -50	PCC	3.024	0.186	0.137	3.036	0.183	0.146	3.058	0.186	0.143	3.076	0.186	0.137	3.091	0.183	0.131
	LCB	2.838			2.853			2.872			2.890			2.908		
	Subgrade	2.701			2.707			2.728			2.753			2.777		
0+00	PCC	2.805	0.180	0.140	2.817	0.174	0.152	2.826	0.168	0.155	2.847	0.174	0.152	2.859	0.168	0.152
	LCB	2.625			2.643			2.658			2.673			2.692		
	Subgrade	2.485			2.491			2.503			2.521			2.539		
0+50	PCC	2.597	0.192	0.155	2.613	0.192	0.155	2.625	0.186	0.158	2.640	0.183	0.152	2.658	0.189	0.137
	LCB	2.405			2.421			2.439			2.457			2.469		
	Subgrade	2.250			2.265			2.280			2.305			2.332		
1+00	PCC	2.375	0.186	0.149	2.390	0.183	0.149	2.402	0.180	0.149	2.427	0.186	0.143	2.439	0.180	0.149
	LCB	2.189			2.207			2.222			2.241			2.259		
	Subgrade	2.040			2.058			2.073			2.097			2.110		
1+50	PCC	2.149	0.192	0.146	2.164	0.189	0.149	2.180	0.183	0.152	2.198	0.186	0.146	2.210	0.177	0.152
	LCB	1.957			1.976			1.997			2.012			2.033		
	Subgrade	1.811			1.826			1.844			1.866			1.881		
2+00	PCC	1.927	0.195	0.149	1.942	0.192	0.146	1.957	0.183	0.146	1.972	0.180	0.152	1.991	0.180	0.152
	LCB	1.732			1.750			1.774			1.793			1.811		
	Subgrade	1.582			1.604			1.628			1.640			1.659		
2+50	PCC	1.704	0.183	0.128	1.726	0.189	0.128	1.738	0.183	0.134	1.753	0.177	0.137	1.768	0.177	0.143
	LCB	1.521			1.537			1.555			1.576			1.591		
	Subgrade	1.393			1.409			1.421			1.439			1.448		
3+00	PCC	1.503	0.189	0.168	1.518	0.186	0.171	1.530	0.183	0.168	1.546	0.177	0.168	1.564	0.180	0.165
	LCB	1.314			1.332			1.348			1.369			1.384		
	Subgrade	1.146			1.162			1.180			1.201			1.220		
3+50	PCC	1.296	0.192	0.168	1.311	0.189	0.162	1.320	0.168	0.180	1.338	0.183	0.165	1.351	0.177	0.165
	LCB	1.104			1.122			1.153			1.156			1.174		
	Subgrade	0.936			0.961			0.973			0.991			1.009		
4+00	PCC	1.095	0.195	0.171	1.107	0.186	0.165	1.119	0.180	0.171	1.131	0.177	0.168	1.149	0.180	0.162
	LCB	0.900			0.921			0.939			0.954			0.970		
	Subgrade	0.729			0.756			0.768			0.787			0.808		
4+50	PCC	0.878	0.189	0.177	0.890	0.186	0.174	0.903	0.180	0.174	0.918	0.177	0.171	0.936	0.183	0.165
	LCB	0.689			0.704			0.723			0.741			0.753		
	Subgrade	0.512			0.531			0.549			0.570			0.589		
5+00	PCC	0.662	0.189	0.165	0.680	0.192	0.165	0.689	0.189	0.165	0.704	0.189	0.158	0.723	0.192	0.158
	LCB	0.473			0.488			0.500			0.516			0.531		
	Subgrade	0.308			0.323			0.336			0.357			0.372		
5+50	PCC	0.445	0.186	0.183	0.467	0.195	0.174	0.476	0.186	0.171	0.491	0.186	0.168	0.503	0.186	0.162
	LCB	0.259			0.272			0.290			0.305			0.317		
	Subgrade	0.077			0.098			0.119			0.138			0.156		
	AVG		0.189	0.157		0.187	0.157		0.181	0.160		0.182	0.155		0.181	0.153
	MAX		0.195	0.183		0.195	0.174		0.189	0.180		0.189	0.171		0.192	0.165
	MIN		0.180	0.128		0.174	0.128		0.168	0.134		0.174	0.137		0.168	0.131
	STD		0.004	0.016		0.005	0.013		0.007	0.013		0.005	0.012		0.006	0.011

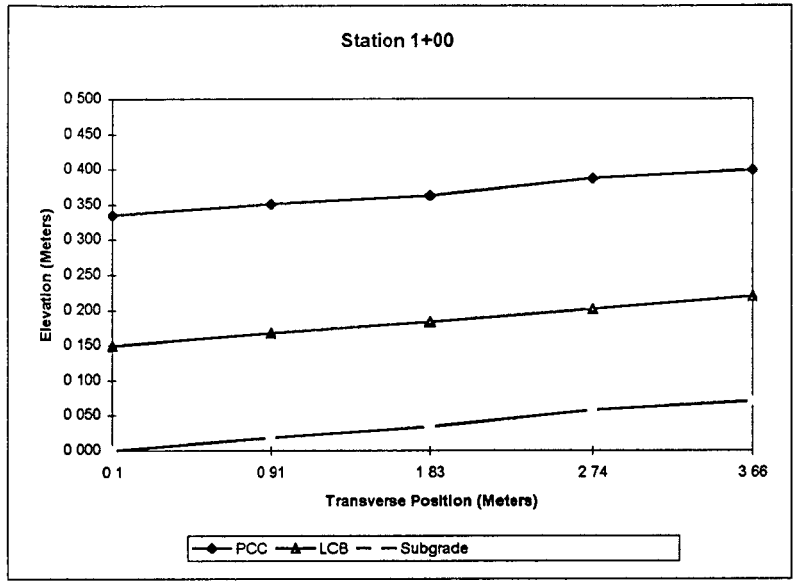
Arkansas SPS-2 (050205)

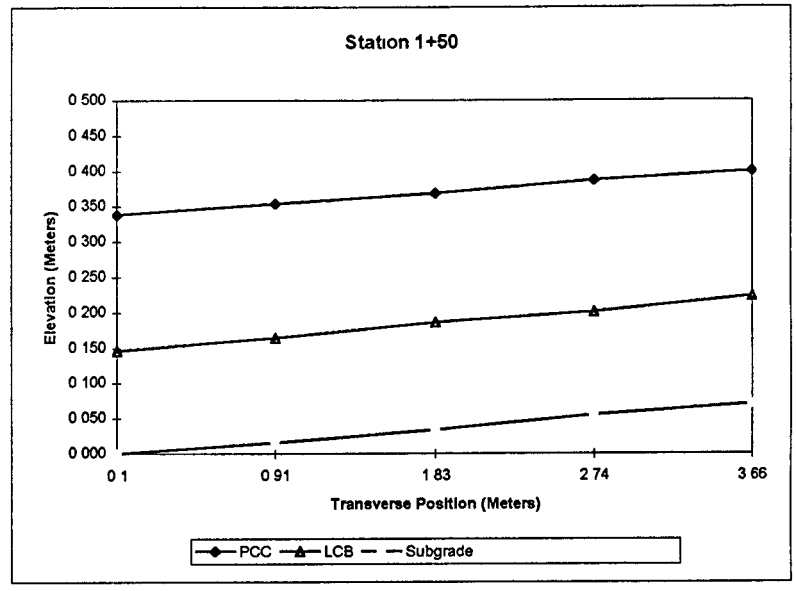


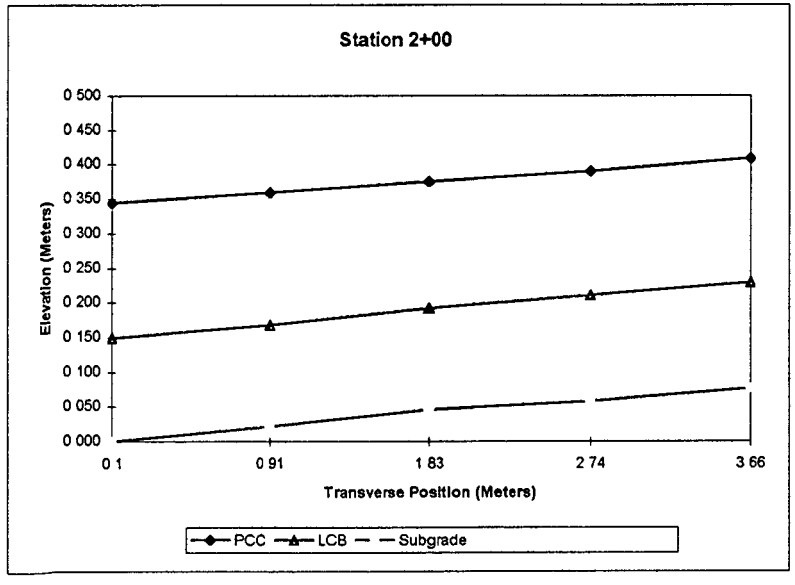


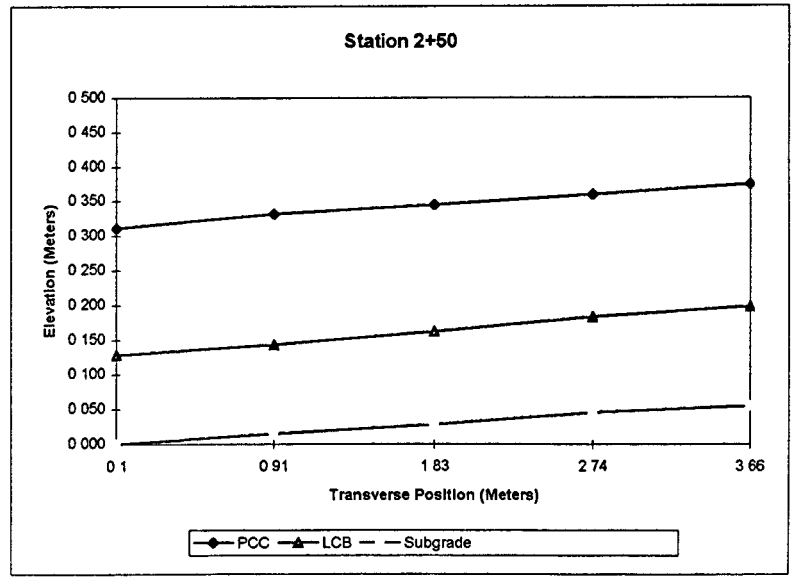


Arkansas SPS-2 (050205)

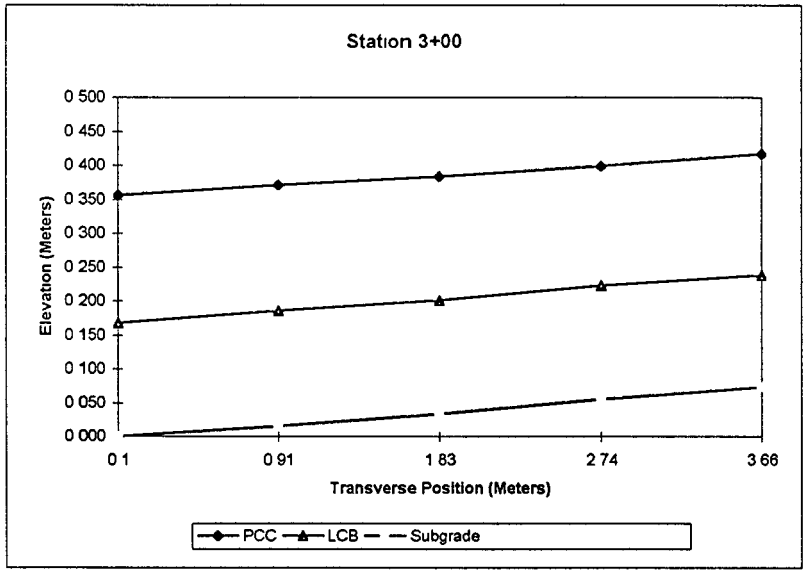


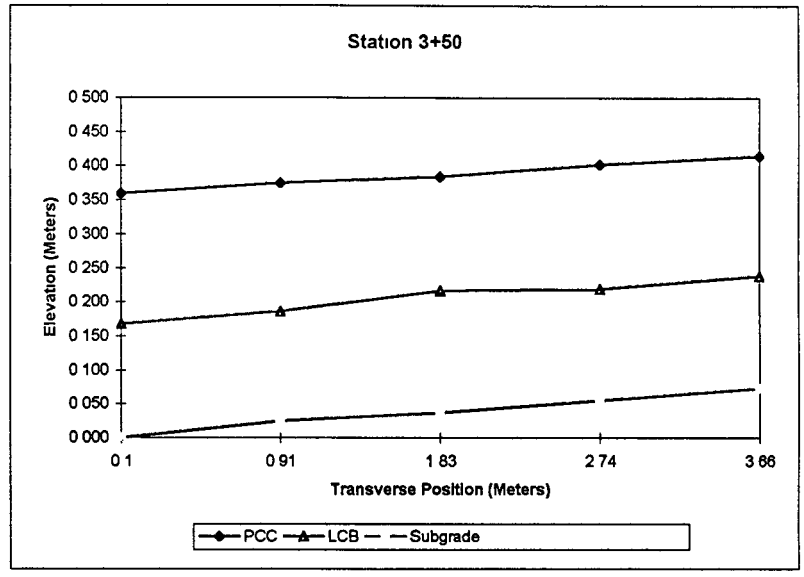


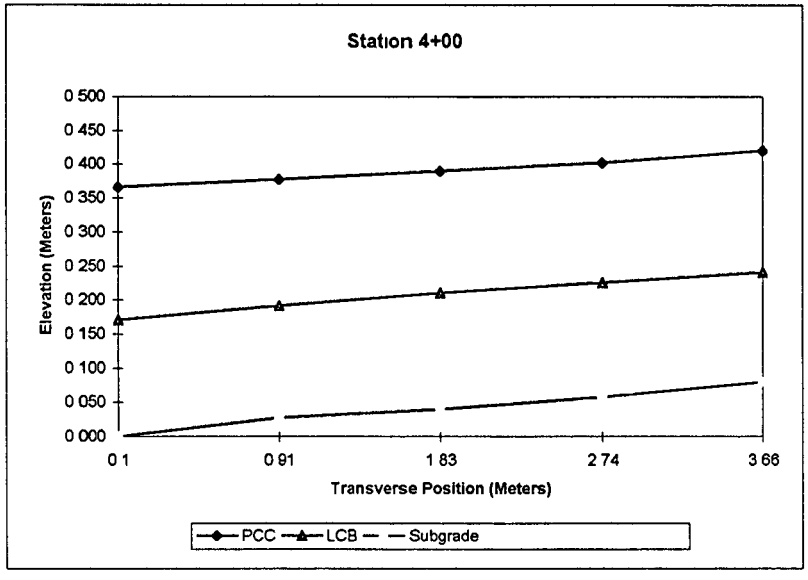


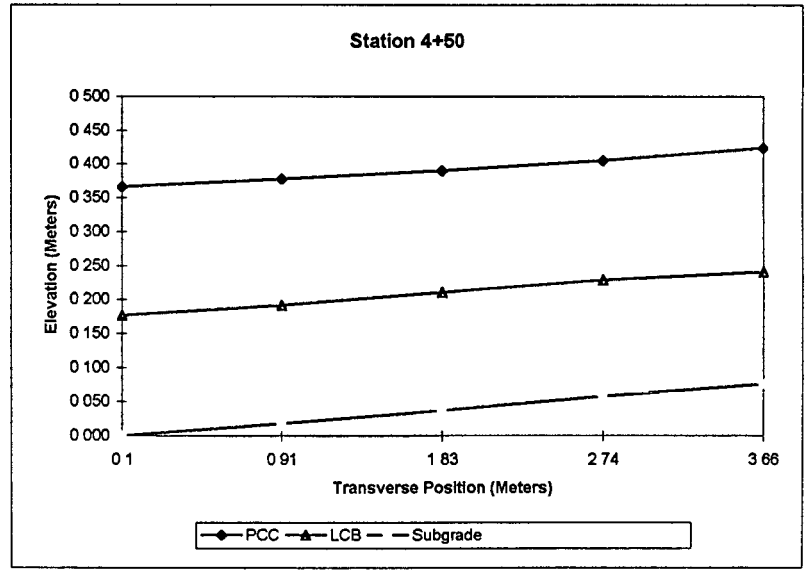


Arkansas SPS-2 (050205)

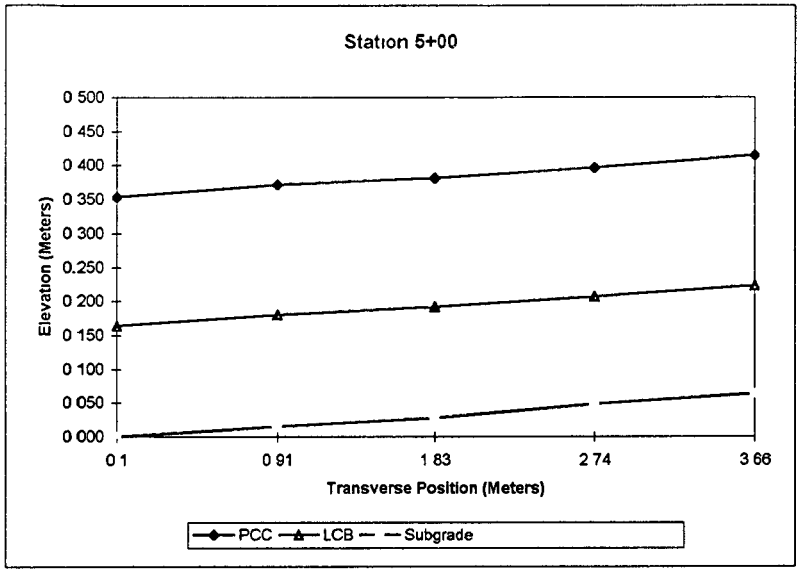


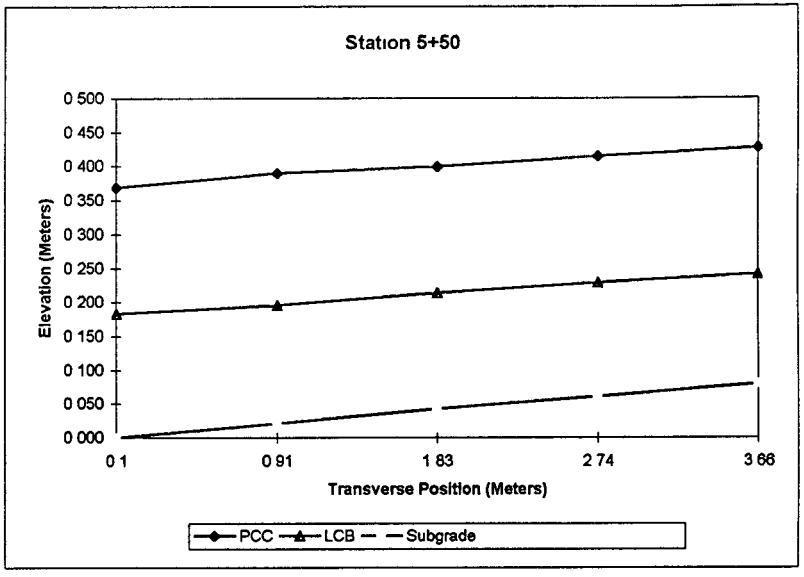






Arkansas SPS-2 (050205)

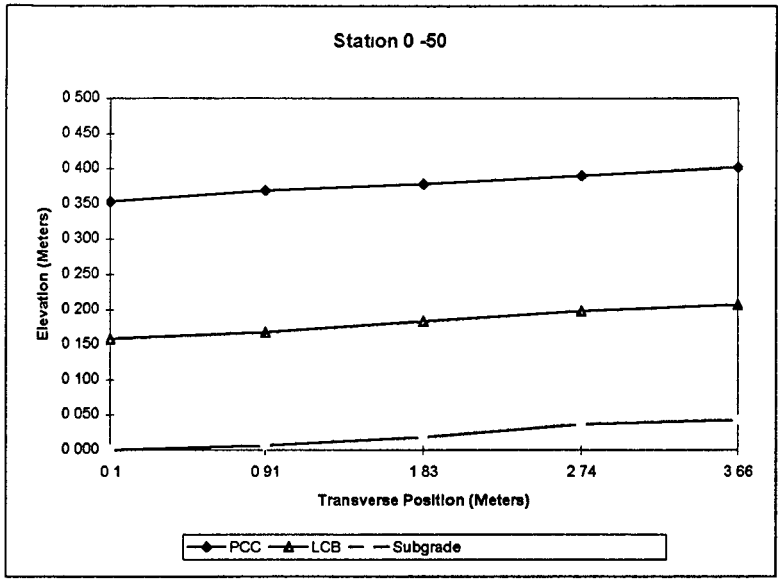


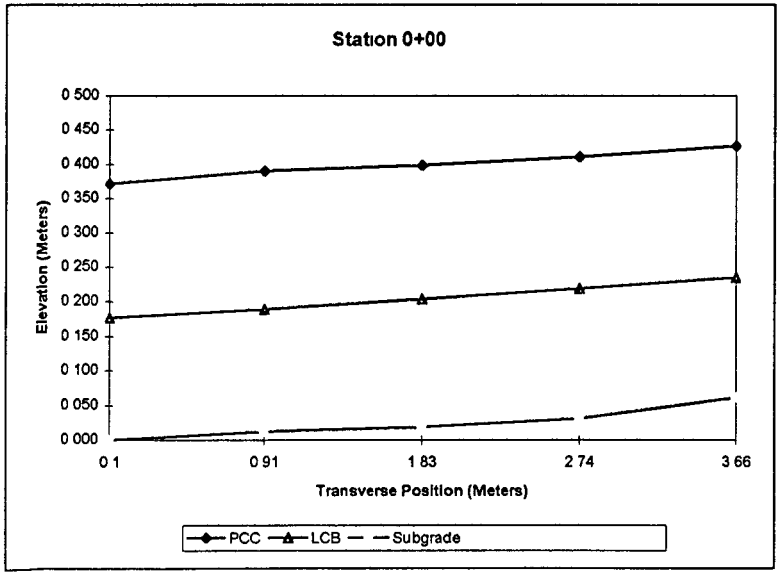


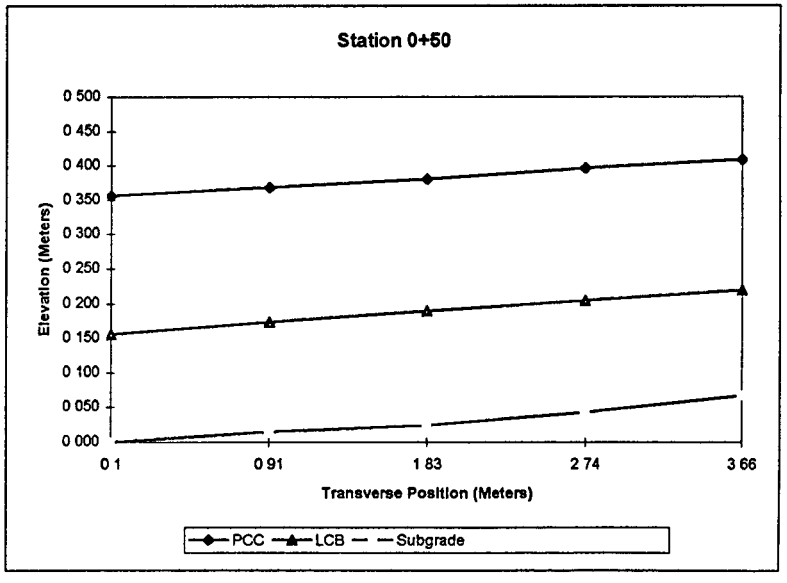
Arkansas SPS-2 (050206)

Transverse Offset	3 LAYERS	ELEVATION 0.1 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters
0 -50	PCC	1.359	0.195	0.158	1.374	0.201	0.162	1.383	0.195	0.165	1.395	0.192	0.162	1.408	0.195	0.165
	LCB	1.164			1.173			1.188			1.203			1.213		
	Subgrade	1.005			1.011			1.024			1.042			1.048		
0+00	PCC	1.426	0.195	0.177	1.444	0.201	0.177	1.453	0.195	0.186	1.466	0.192	0.189	1.481	0.192	0.174
	LCB	1.231			1.243			1.258			1.274			1.289		
	Subgrade	1.054			1.066			1.072			1.085			1.115		
0+50	PCC	1.478	0.201	0.155	1.490	0.195	0.158	1.502	0.192	0.165	1.517	0.192	0.162	1.530	0.189	0.152
	LCB	1.277			1.295			1.310			1.325			1.341		
	Subgrade	1.121			1.136			1.146			1.164			1.188		
1+00	PCC	1.502	0.198	0.158	1.517	0.198	0.162	1.536	0.201	0.158	1.548	0.195	0.165	1.560	0.192	0.168
	LCB	1.304			1.319			1.334			1.353			1.368		
	Subgrade	1.146			1.158			1.176			1.188			1.200		
1+50	PCC	1.487	0.192	0.140	1.505	0.198	0.140	1.520	0.195	0.146	1.536	0.195	0.146	1.548	0.192	0.143
	LCB	1.295			1.307			1.325			1.341			1.356		
	Subgrade	1.155			1.167			1.179			1.194			1.213		
2+00	PCC	1.456	0.192	0.158	1.475	0.198	0.155	1.487	0.195	0.158	1.499	0.192	0.162	1.511	0.189	0.158
	LCB	1.264			1.277			1.292			1.307			1.322		
	Subgrade	1.106			1.121			1.133			1.146			1.164		
2+50	PCC	1.395	0.198	0.155	1.408	0.198	0.162	1.420	0.198	0.162	1.432	0.195	0.158	1.444	0.192	0.149
	LCB	1.197			1.210			1.222			1.237			1.252		
	Subgrade	1.042			1.048			1.060			1.078			1.103		
3+00	PCC	1.307	0.207	0.162	1.319	0.207	0.162	1.331	0.204	0.171	1.344	0.204	0.171	1.356	0.201	0.165
	LCB	1.100			1.112			1.127			1.139			1.155		
	Subgrade	0.938			0.950			0.957			0.969			0.990		
3+50	PCC	1.176	0.207	0.158	1.185	0.201	0.165	1.200	0.201	0.152	1.213	0.201	0.165	1.225	0.198	0.165
	LCB	0.969			0.984			0.999			1.011			1.027		
	Subgrade	0.810			0.819			0.847			0.847			0.862		
4+00	PCC	1.021	0.204	0.158	1.030	0.198	0.155	1.045	0.198	0.158	1.057	0.195	0.149	1.072	0.192	0.149
	LCB	0.816			0.832			0.847			0.862			0.880		
	Subgrade	0.658			0.676			0.688			0.713			0.731		
4+50	PCC	0.832	0.204	0.152	0.850	0.207	0.155	0.862	0.204	0.149	0.877	0.201	0.158	0.893	0.201	0.155
	LCB	0.627			0.643			0.658			0.676			0.691		
	Subgrade	0.475			0.487			0.508			0.518			0.536		
5+00	PCC	0.627	0.207	0.155	0.643	0.207	0.165	0.655	0.204	0.158	0.673	0.204	0.149	0.688	0.204	0.149
	LCB	0.420			0.435			0.451			0.469			0.484		
	Subgrade	0.265			0.271			0.292			0.319			0.335		
5+50	PCC	0.417	0.210	0.143	0.432	0.210	0.152	0.444	0.204	0.155	0.460	0.204	0.155	0.478	0.204	0.168
	LCB	0.207			0.222			0.240			0.255			0.274		
	Subgrade	0.063			0.070			0.085			0.100			0.106		
	AVG		0.201	0.156		0.202	0.160		0.199	0.161		0.198	0.161		0.196	0.158
	MAX		0.210	0.177		0.210	0.177		0.204	0.186		0.204	0.189		0.204	0.174
	MIN		0.192	0.140		0.195	0.140		0.192	0.146		0.192	0.146		0.189	0.143
	STD		0.006	0.009		0.005	0.008		0.004	0.010		0.005	0.011		0.005	0.009

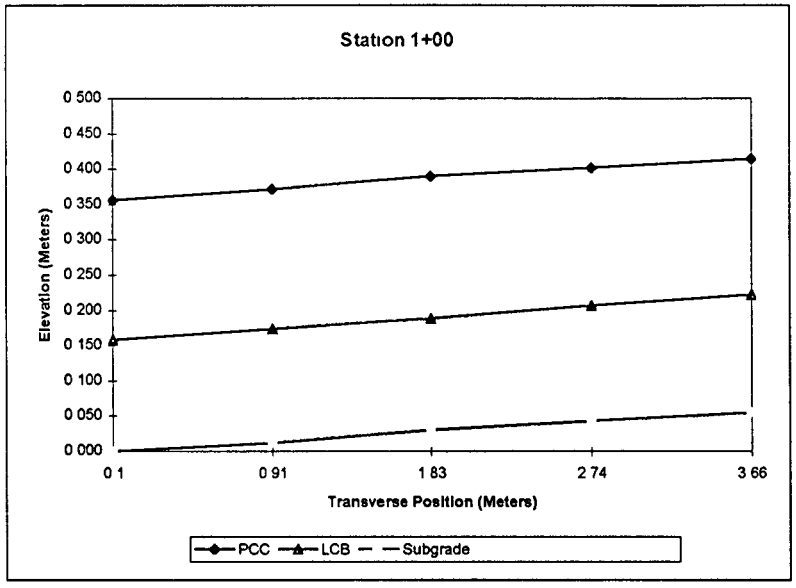
Arkansas SPS-2 (050206)

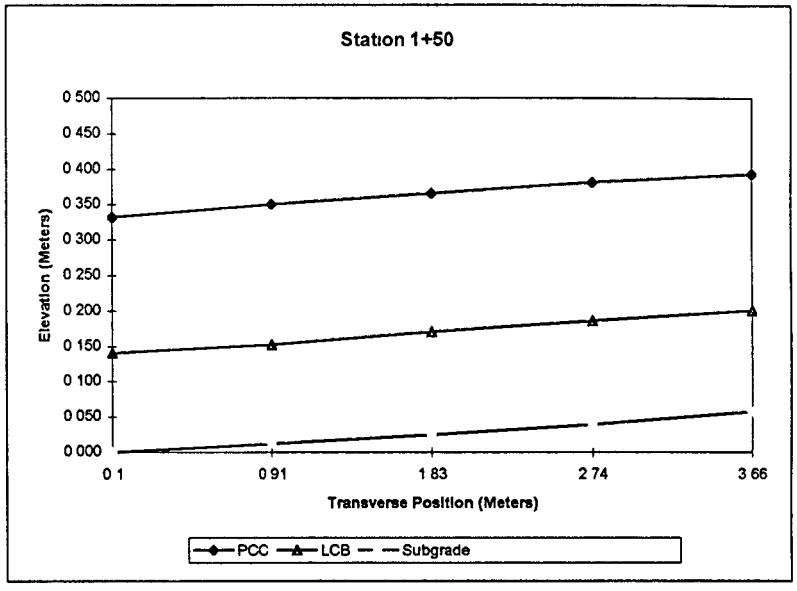


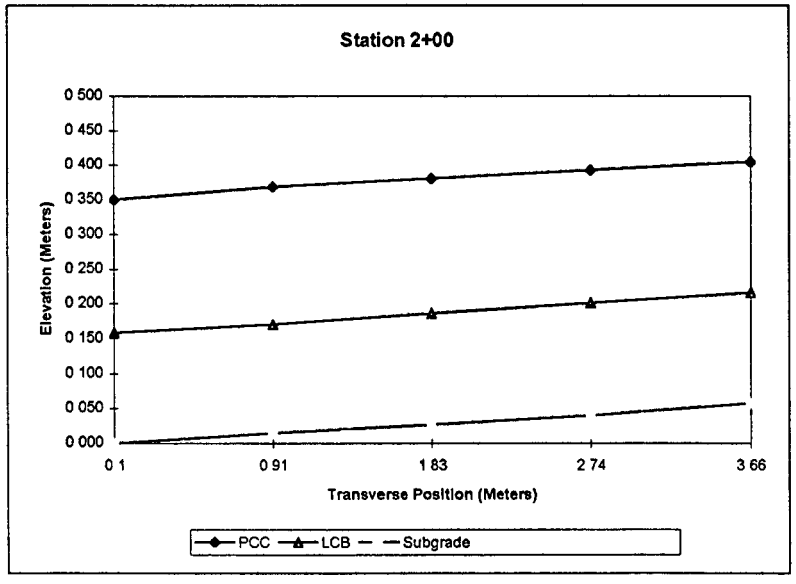


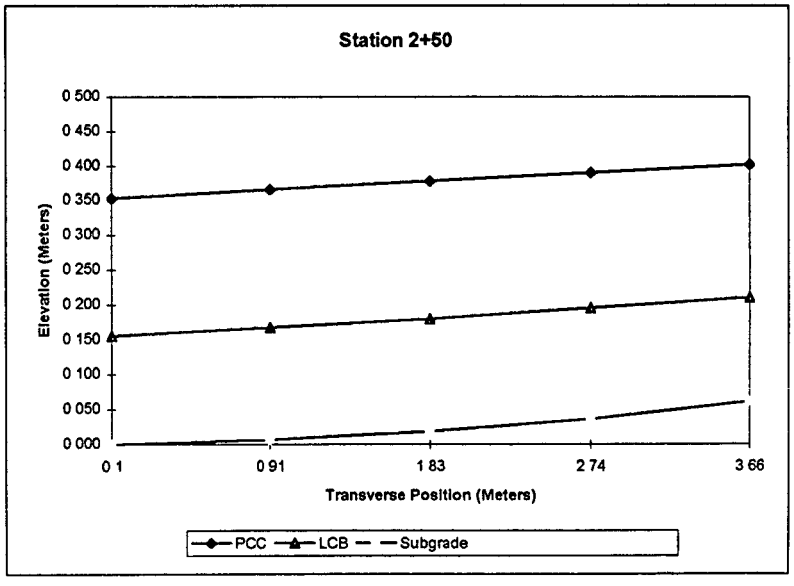


Arkansas SPS-2 (050206)

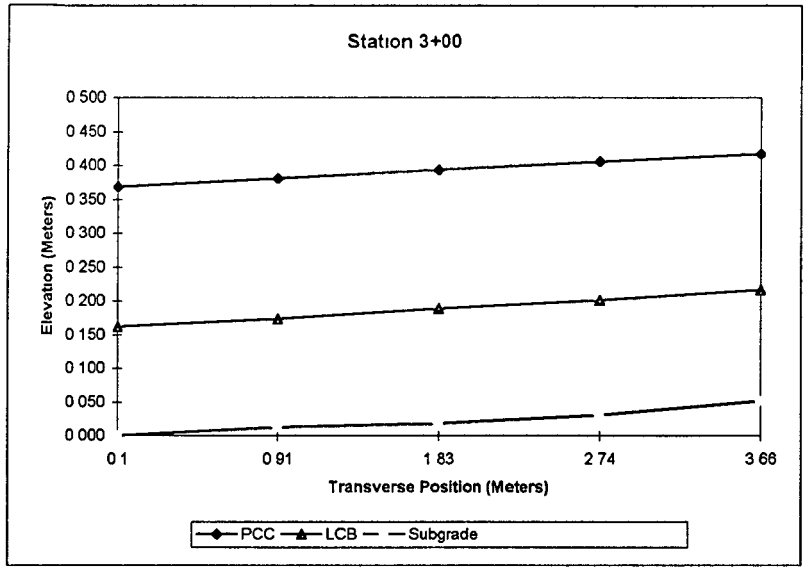


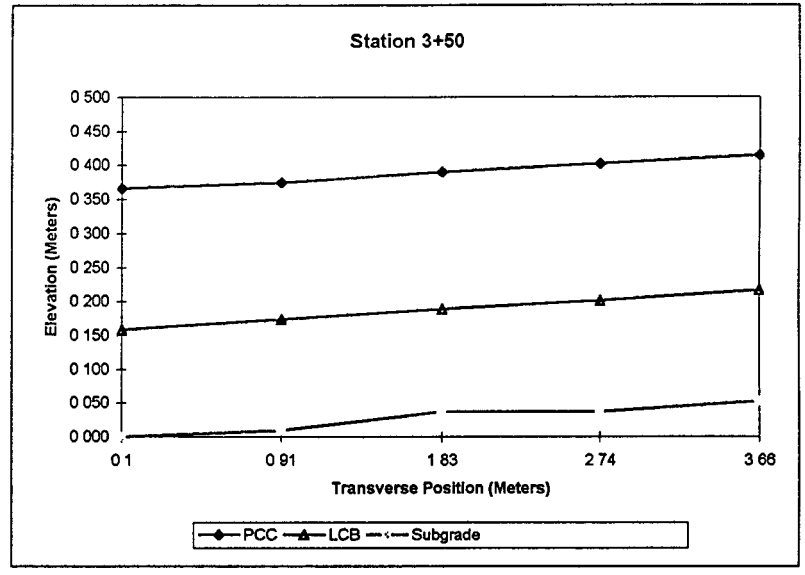


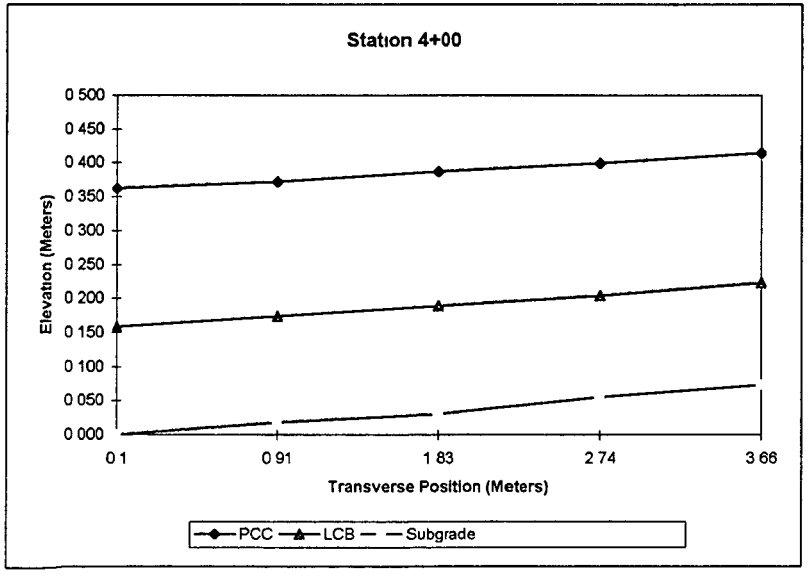


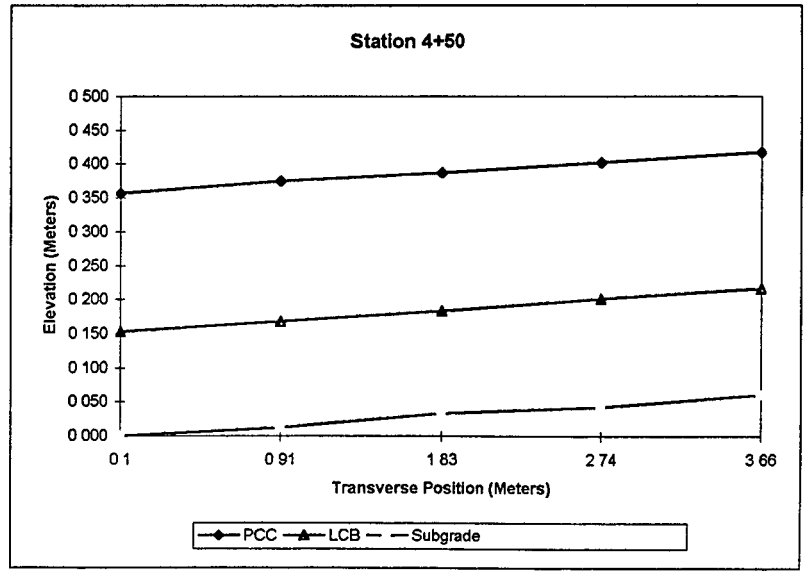


Arkansas SPS-2 (050206)

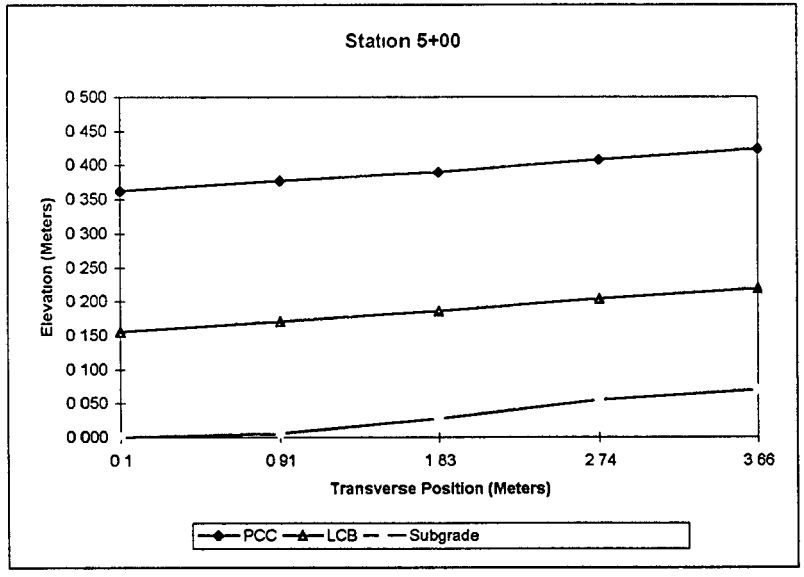


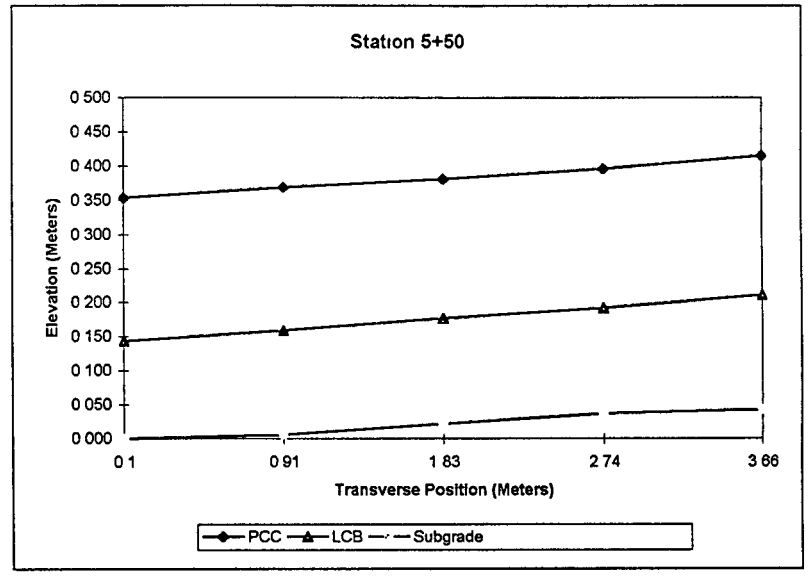






Arkansas SPS-2 (050206)

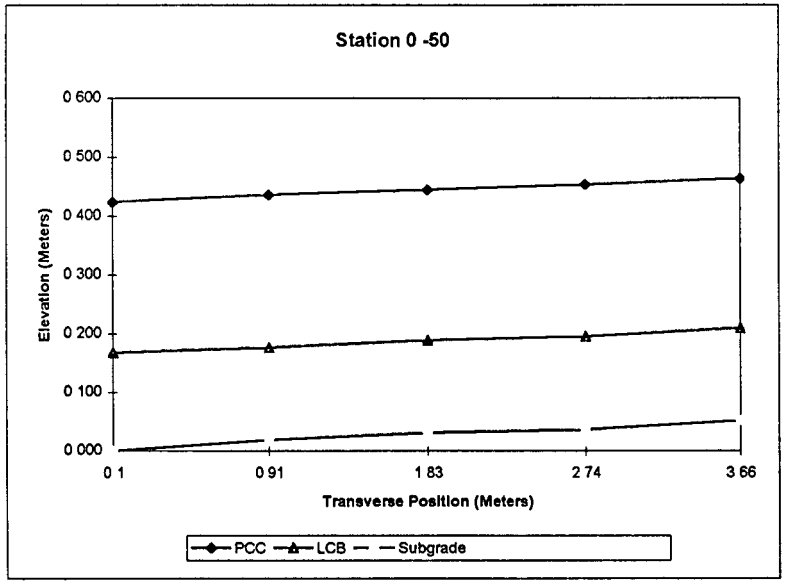


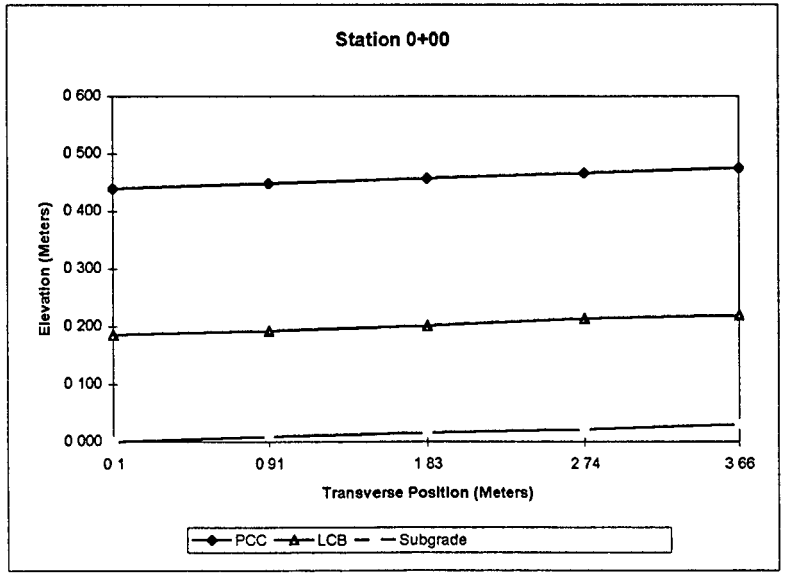


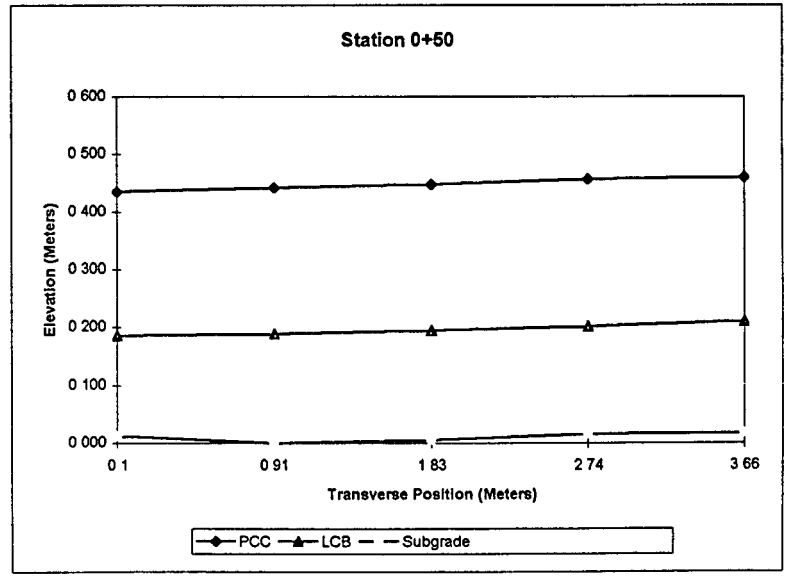
Arkansas SPS-2 (050207)

Transverse Offset	3 LAYERS	ELEVATION 0.1 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters
0 -50	PCC	0 500	0 256	0 168	0 512	0 259	0 158	0 522	0 256	0 158	0 531	0 259	0 158	0 540	0 253	0 158
	LCB	0 244			0 253			0 266			0 272			0 287		
	Subgrade	0 077			0 095			0 107			0 113			0 128		
0+00	PCC	0 951	0 253	0 186	0 960	0 256	0 183	0 970	0 256	0 186	0 979	0 253	0 192	0 988	0 256	0 189
	LCB	0 698			0 704			0 714			0 726			0 732		
	Subgrade	0 512			0 522			0 528			0 534			0 543		
0+50	PCC	1 402	0 250	0 174	1 409	0 253	0 189	1 415	0 253	0 189	1 424	0 256	0 186	1 427	0 250	0 192
	LCB	1 152			1 156			1 162			1 168			1 177		
	Subgrade	0 979			0 967			0 973			0 982			0 985		
1+00	PCC	1 847	0 271	0 165	1 857	0 274	0 158	1 860	0 271	0 171	1 869	0 271	0 155	1 878	0 271	0 152
	LCB	1 576			1 582			1 588			1 597			1 607		
	Subgrade	1 412			1 424			1 418			1 442			1 454		
1+50	PCC	2 286	0 268	0 180	2 299	0 274	0 180	2 308	0 274	0 183	2 314	0 271	0 180	2 323	0 271	0 177
	LCB	2 018			2 024			2 033			2 043			2 052		
	Subgrade	1 838			1 844			1 850			1 863			1 875		
2+00	PCC	2 716	0 268	0 177	2 728	0 274	0 183	2 737	0 277	0 171	2 744	0 268	0 180	2 753	0 268	0 162
	LCB	2 448			2 454			2 460			2 475			2 484		
	Subgrade	2 271			2 271			2 289			2 295			2 323		
2+50	PCC	3 149	0 271	0 155	3 155	0 268	0 165	3 164	0 268	0 168	3 176	0 268	0 174	3 189	0 271	0 168
	LCB	2 878			2 887			2 896			2 908			2 917		
	Subgrade	2 722			2 722			2 728			2 734			2 750		
3+00	PCC	3 594	0 274	0 158	3 603	0 271	0 158	3 615	0 268	0 155	3 624	0 265	0 155	3 637	0 265	0 155
	LCB	3 320			3 332			3 347			3 359			3 371		
	Subgrade	3 161			3 173			3 192			3 204			3 216		
3+50	PCC	4 012	0 274	0 149	4 021	0 268	0 152	4 030	0 265	0 158	4 042	0 265	0 165	4 057	0 265	0 155
	LCB	3 737			3 752			3 765			3 777			3 792		
	Subgrade	3 588			3 600			3 606			3 612			3 637		
4+00	PCC	4 402	0 271	0 158	4 414	0 274	0 162	4 426	0 271	0 165	4 438	0 271	0 152	4 453	0 271	0 155
	LCB	4 130			4 140			4 155			4 167			4 182		
	Subgrade	3 972			3 978			3 990			4 015			4 027		
4+50	PCC	4 758	0 280	0 158	4 767	0 277	0 158	4 780	0 277	0 168	4 795	0 277	0 162	4 807	0 274	0 168
	LCB	4 478			4 490			4 502			4 517			4 533		
	Subgrade	4 319			4 332			4 335			4 356			4 365		
5+00	PCC	5 081	0 271	0 155	5 094	0 274	0 158	5 106	0 274	0 158	5 118	0 277	0 149	5 130	0 277	0 155
	LCB	4 810			4 819			4 831			4 841			4 853		
	Subgrade	4 655			4 661			4 673			4 691			4 697		
5+50	PCC	5 380	0 274	0 158	5 395	0 280	0 143	5 404	0 277	0 149	5 417	0 277	0 143	5 426	0 277	0 143
	LCB	5 106			5 115			5 127			5 139			5 148		
	Subgrade	4 947			4 972			4 978			4 996			5 005		
	AVG		0 268	0 164		0 269	0 164		0 268	0 167		0 268	0 164		0 267	0 164
	MAX		0 280	0 186		0 280	0 189		0 277	0 189		0 277	0 192		0 277	0 192
	MIN		0 250	0 149		0 253	0 143		0 253	0 149		0 253	0 143		0 250	0 143
	STD		0 009	0 010		0 008	0 013		0 008	0 012		0 008	0 015		0 009	0 014

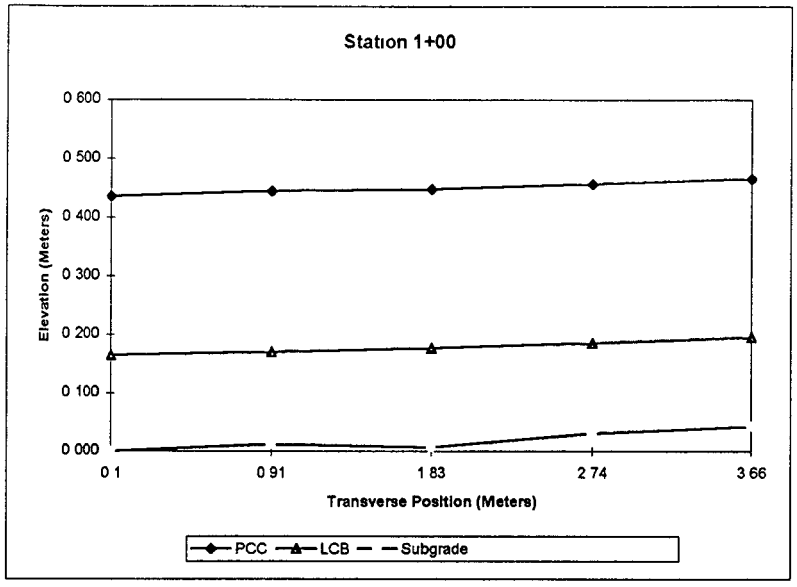
Arkansas SPS-2 (050207)

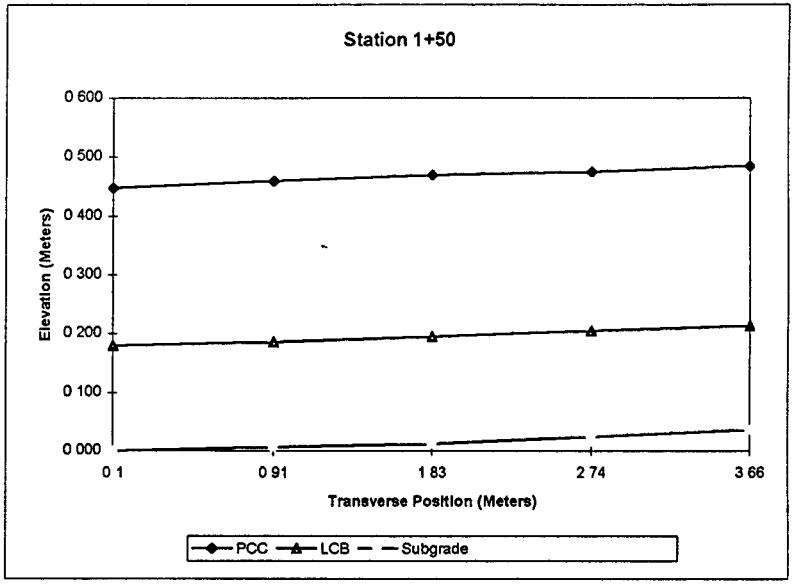


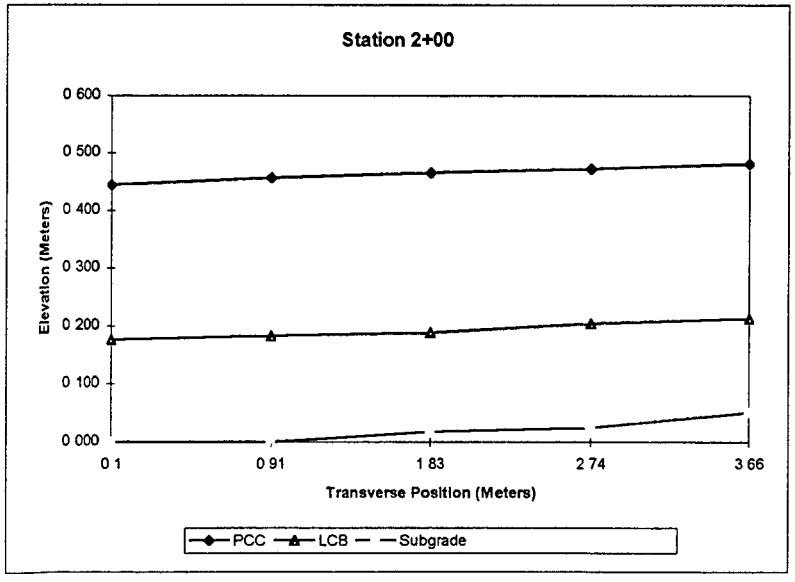


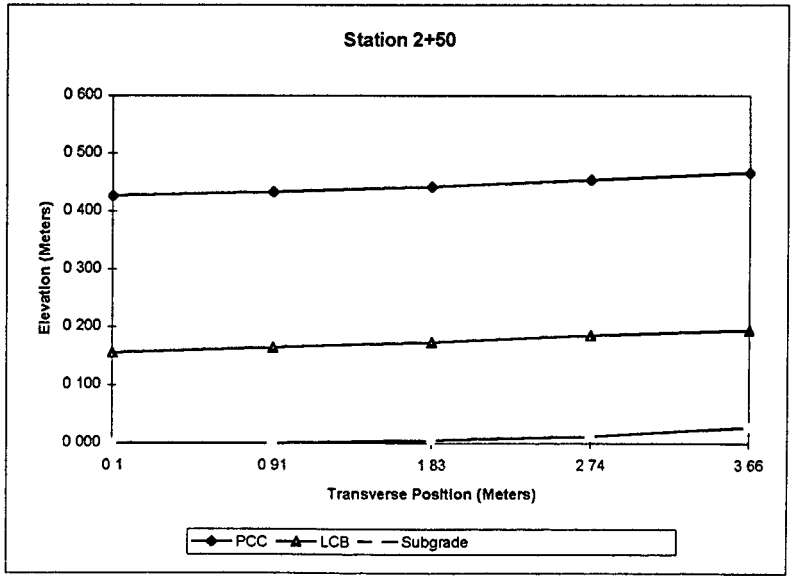


Arkansas SPS-2 (050207)

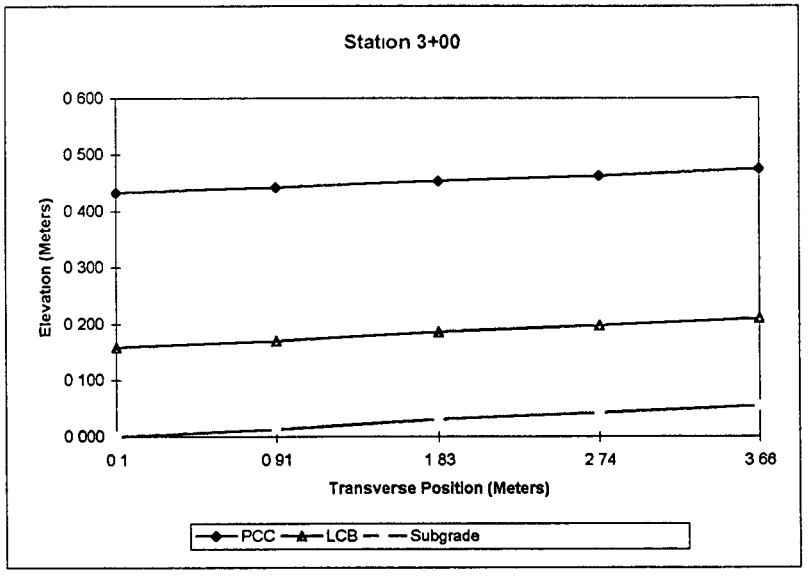


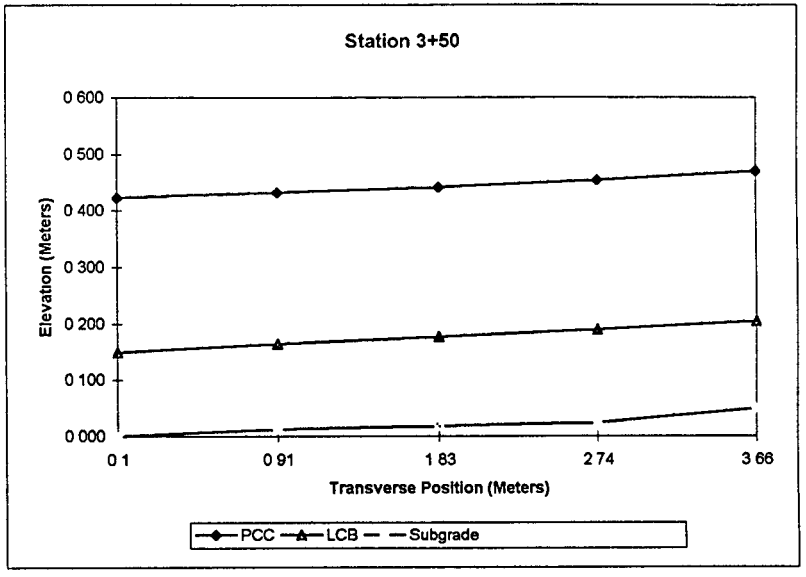


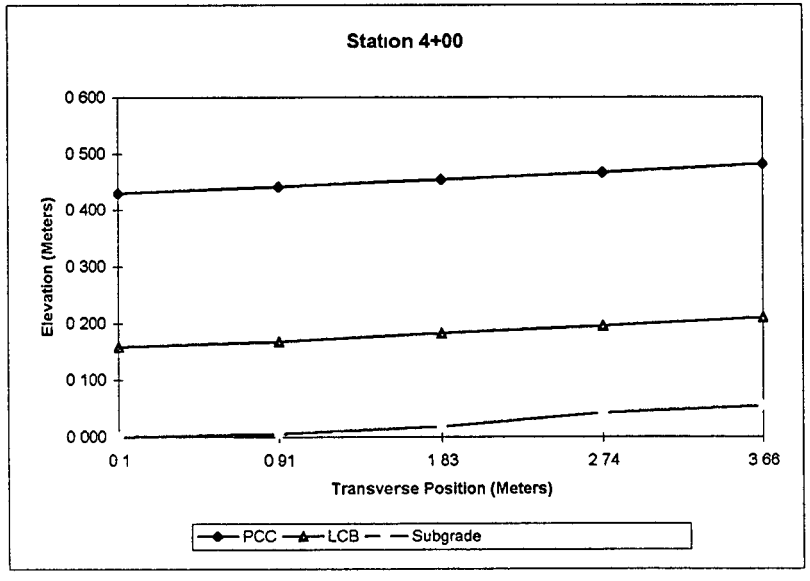


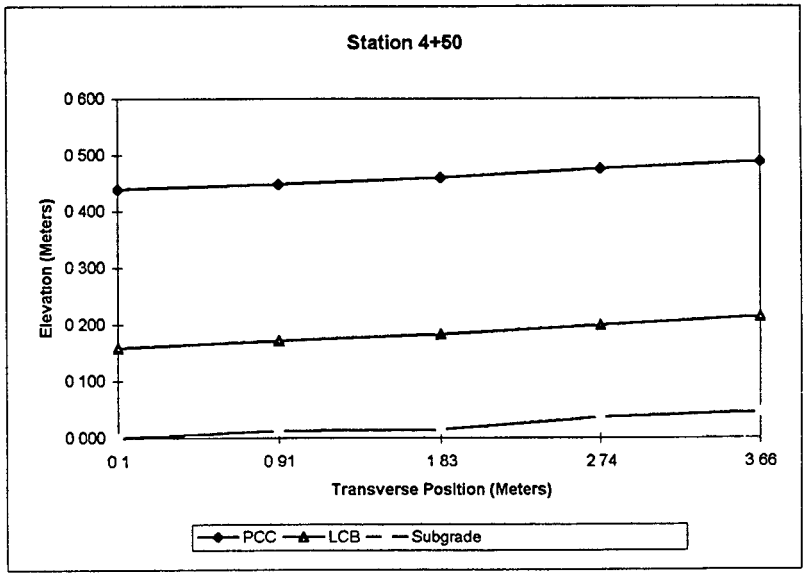


Arkansas SPS-2 (050207)

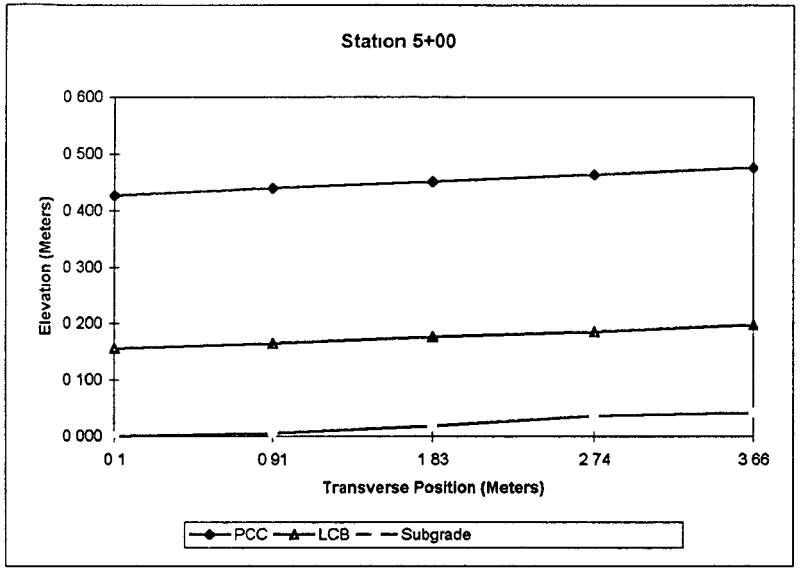


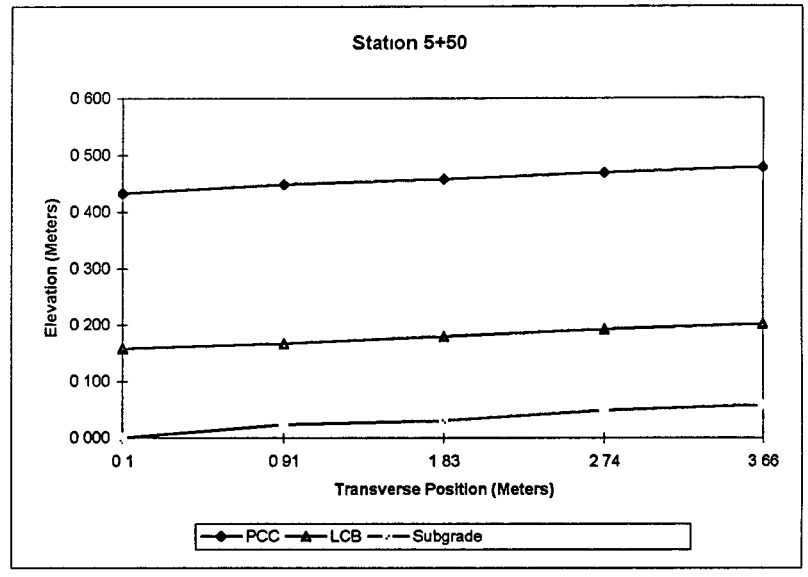






Arkansas SPS-2 (050207)

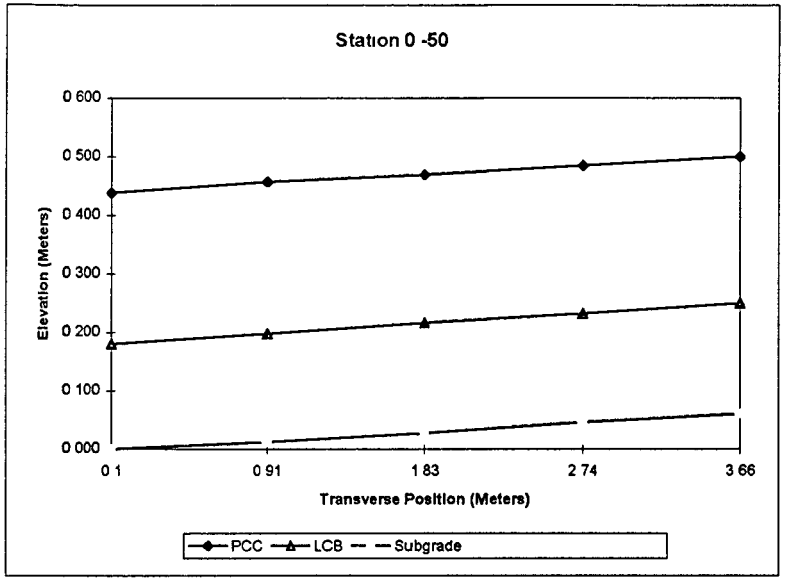


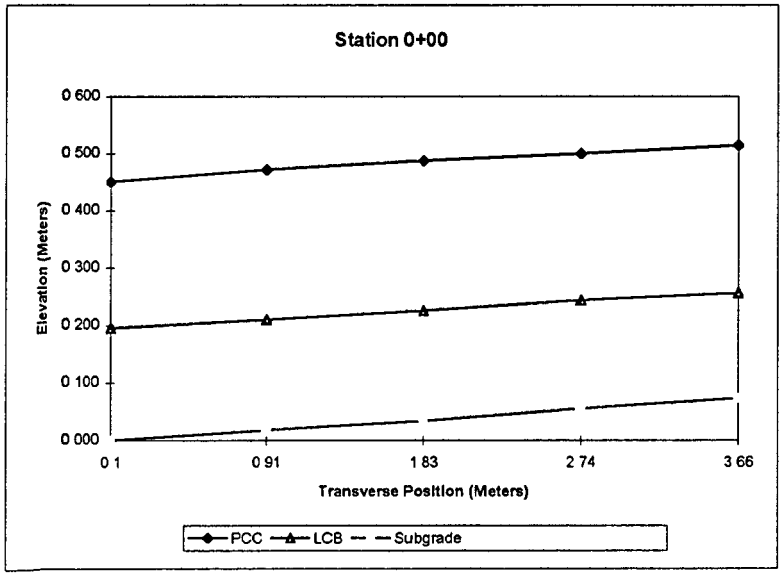


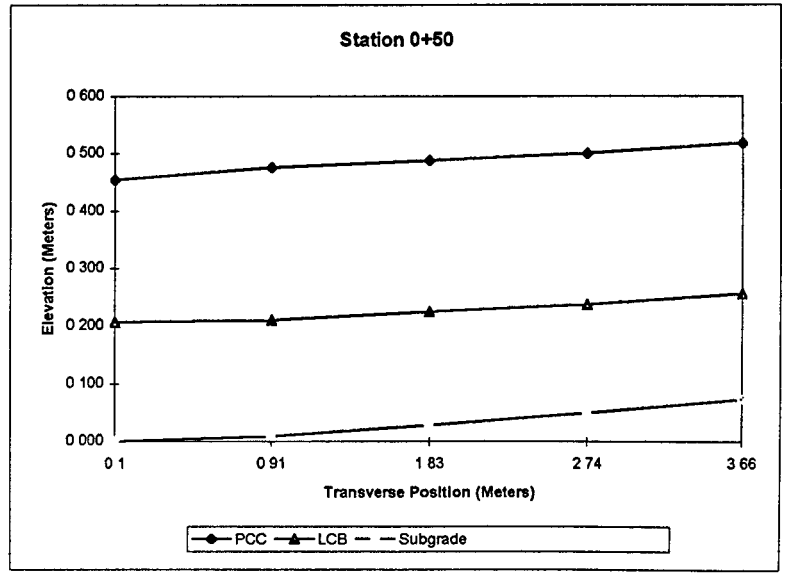
Arkansas SPS-2 (050208)

Transverse Offset	3 LAYERS	ELEVATION 0.1 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters	LCB THICKNESS Meters
0 -50	PCC	1 939	0 259	0 180	1 957	0 259	0 186	1 969	0 253	0 189	1 985	0 253	0 186	2 000	0 250	0 189
	LCB	1 680			1 698			1 716			1 732			1 750		
	Subgrade	1 500			1 512			1 527			1 546			1 561		
0+00	PCC	1 735	0 256	0 195	1 756	0 262	0 192	1 771	0 262	0 192	1 784	0 256	0 189	1 799	0 259	0 183
	LCB	1 479			1 494			1 509			1 527			1 540		
	Subgrade	1 284			1 302			1 317			1 339			1 357		
0+50	PCC	1 527	0 247	0 207	1 549	0 265	0 201	1 561	0 262	0 198	1 573	0 262	0 189	1 591	0 262	0 183
	LCB	1 281			1 284			1 299			1 311			1 329		
	Subgrade	1 073			1 082			1 101			1 122			1 146		
1+00	PCC	1 320	0 271	0 192	1 345	0 283	0 192	1 357	0 274	0 198	1 369	0 268	0 195	1 384	0 268	0 186
	LCB	1 049			1 061			1 082			1 101			1 116		
	Subgrade	0 857			0 869			0 884			0 906			0 930		
1+50	PCC	1 128	0 293	0 186	1 150	0 299	0 195	1 165	0 302	0 186	1 177	0 299	0 183	1 189	0 293	0 186
	LCB	0 836			0 851			0 863			0 878			0 897		
	Subgrade	0 650			0 656			0 677			0 695			0 711		
2+00	PCC	0 933	0 262	0 198	0 954	0 268	0 198	0 970	0 271	0 195	0 985	0 271	0 192	1 000	0 271	0 189
	LCB	0 671			0 686			0 698			0 714			0 729		
	Subgrade	0 473			0 488			0 503			0 522			0 540		
2+50	PCC	0 802	0 274	0 189	0 811	0 265	0 198	0 823	0 265	0 189	0 836	0 262	0 183	0 845	0 256	0 183
	LCB	0 528			0 546			0 558			0 573			0 589		
	Subgrade	0 339			0 348			0 369			0 391			0 406		
3+00	PCC	0 686	0 259	0 192	0 701	0 262	0 192	0 714	0 259	0 192	0 723	0 256	0 177	0 735	0 256	0 177
	LCB	0 427			0 439			0 455			0 467			0 479		
	Subgrade	0 235			0 247			0 263			0 290			0 302		
3+50	PCC	0 631	0 271	0 192	0 637	0 262	0 192	0 650	0 259	0 198	0 659	0 256	0 186	0 671	0 256	0 186
	LCB	0 360			0 375			0 391			0 403			0 415		
	Subgrade	0 168			0 183			0 192			0 217			0 229		
4+00	PCC	0 598	0 259	0 183	0 616	0 265	0 180	0 622	0 259	0 183	0 634	0 259	0 174	0 644	0 262	0 165
	LCB	0 339			0 351			0 363			0 375			0 381		
	Subgrade	0 156			0 171			0 180			0 202			0 217		
4+50	PCC	0 619	0 259	0 207	0 631	0 262	0 192	0 641	0 259	0 195	0 647	0 253	0 186	0 659	0 256	0 180
	LCB	0 360			0 369			0 381			0 394			0 403		
	Subgrade	0 153			0 177			0 186			0 208			0 223		
5+00	PCC	0 662	0 259	0 192	0 677	0 262	0 192	0 686	0 259	0 189	0 692	0 256	0 183	0 705	0 259	0 177
	LCB	0 403			0 415			0 427			0 436			0 445		
	Subgrade	0 211			0 223			0 238			0 253			0 269		
5+50	PCC	0 744	0 244	0 189	0 753	0 244	0 189	0 759	0 238	0 189	0 769	0 235	0 192	0 775	0 229	0 189
	LCB	0 500			0 509			0 522			0 534			0 546		
	Subgrade	0 311			0 320			0 333			0 342			0 357		
	AVG		0 263	0 192		0 268	0 192		0 263	0 192		0 260	0 185		0 259	0 182
	MAX		0 293	0 207		0 299	0 201		0 302	0 198		0 299	0 195		0 293	0 189
	MIN		0 244	0 180		0 244	0 180		0 238	0 183		0 235	0 174		0 229	0 165
	STD		0 012	0 008		0 013	0 005		0 014	0 005		0 014	0 006		0 014	0 007

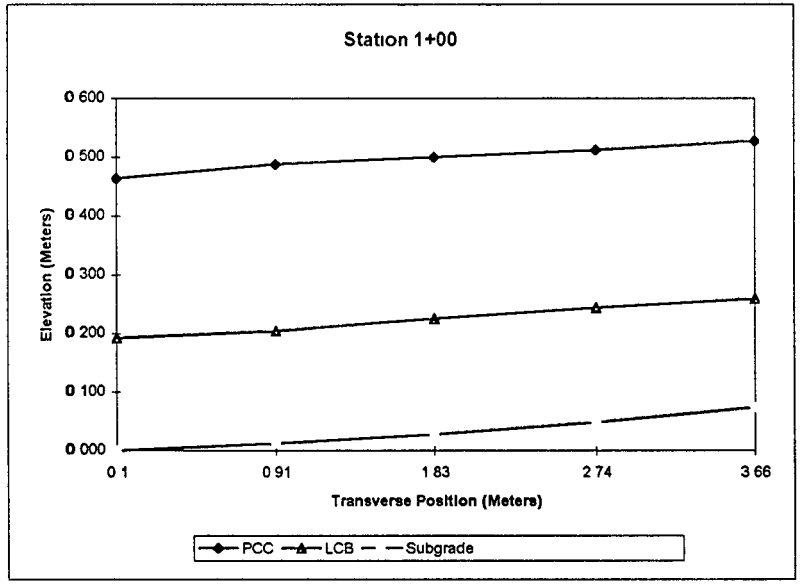
Arkansas SPS-2 (050208)

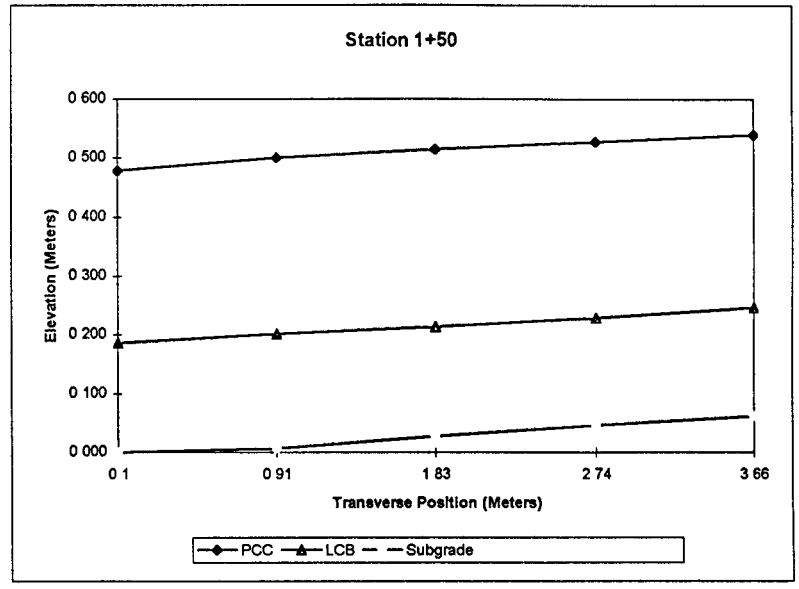


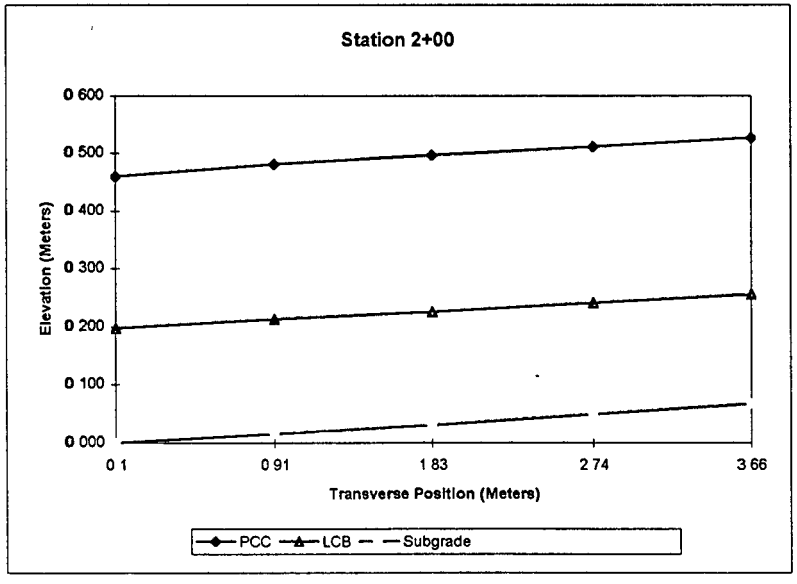


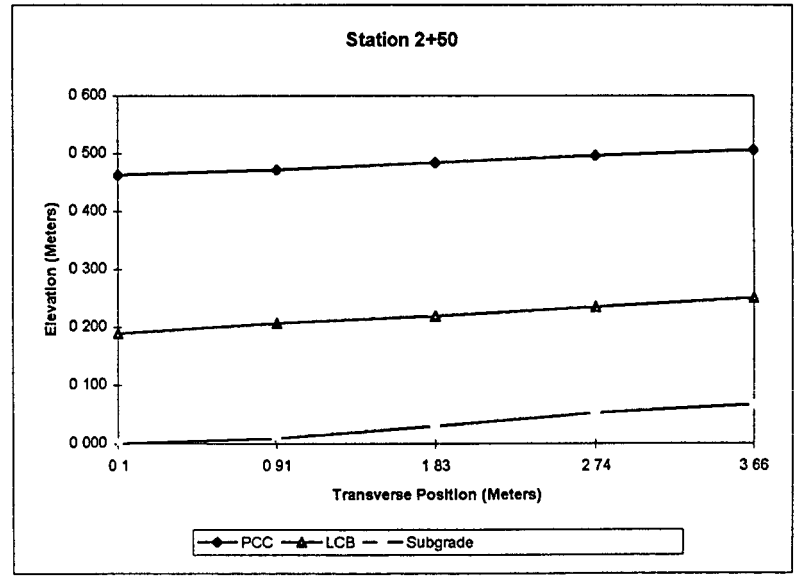


Arkansas SPS-2 (050208)

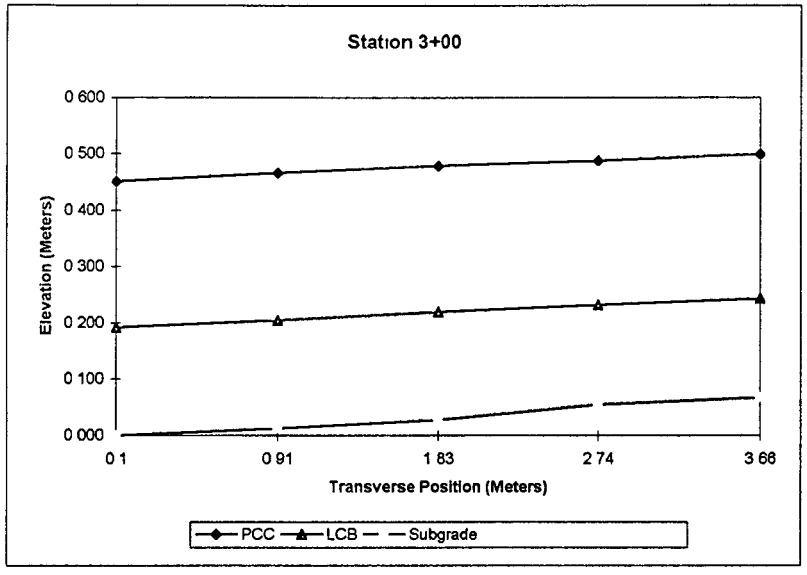


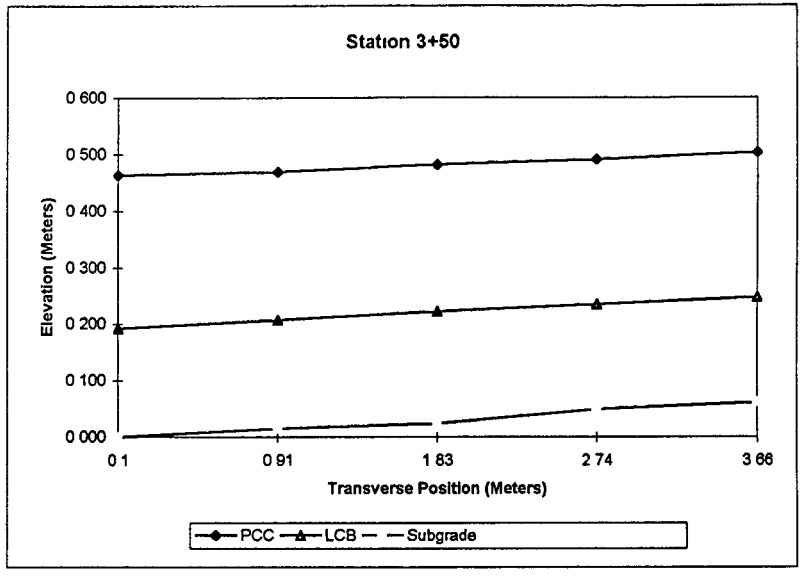


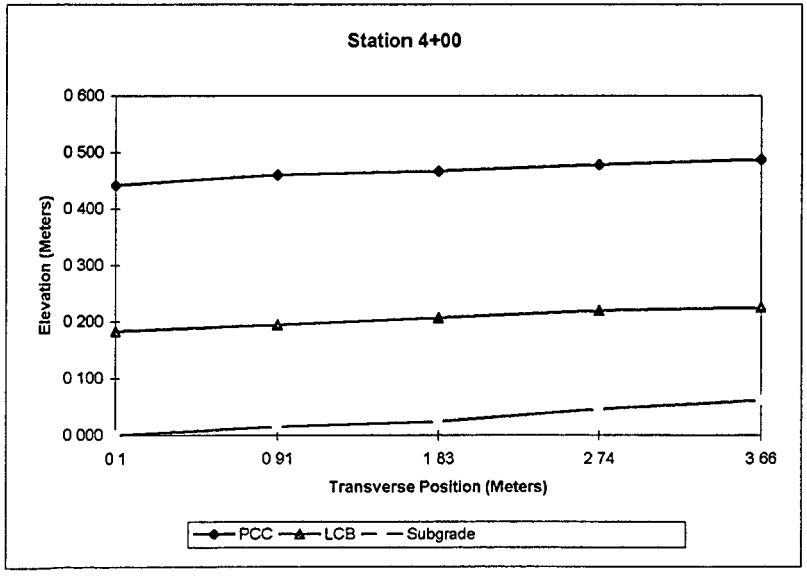


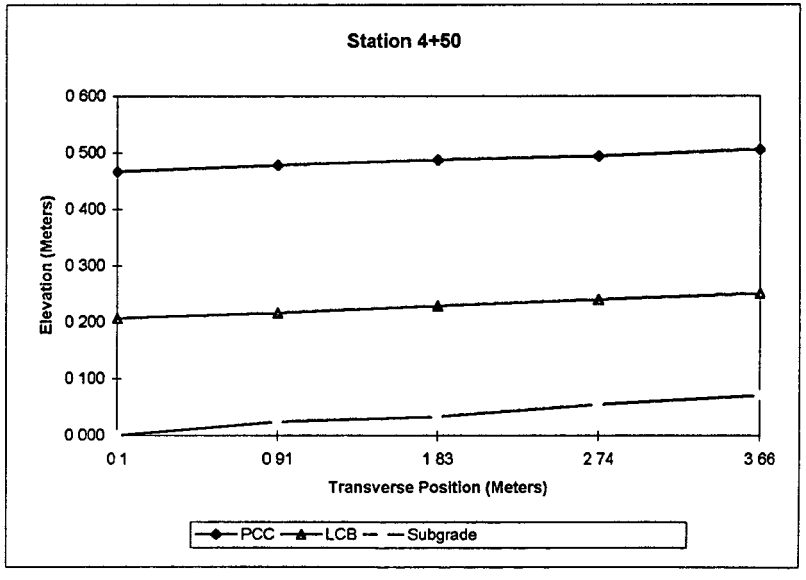


Arkansas SPS-2 (050208)

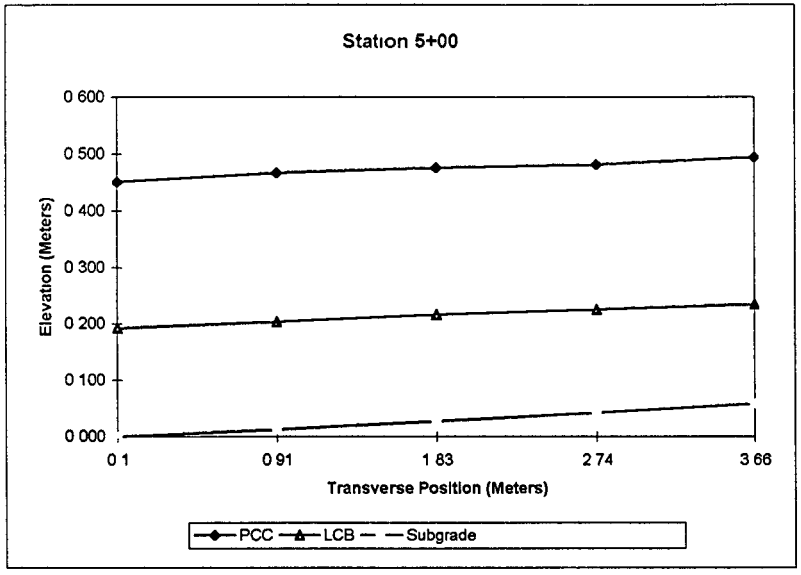


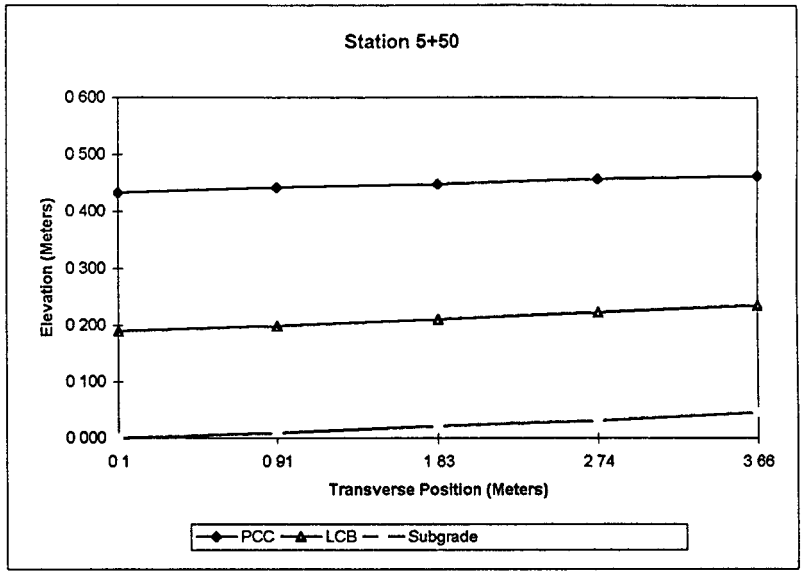






Arkansas SPS-2 (050208)

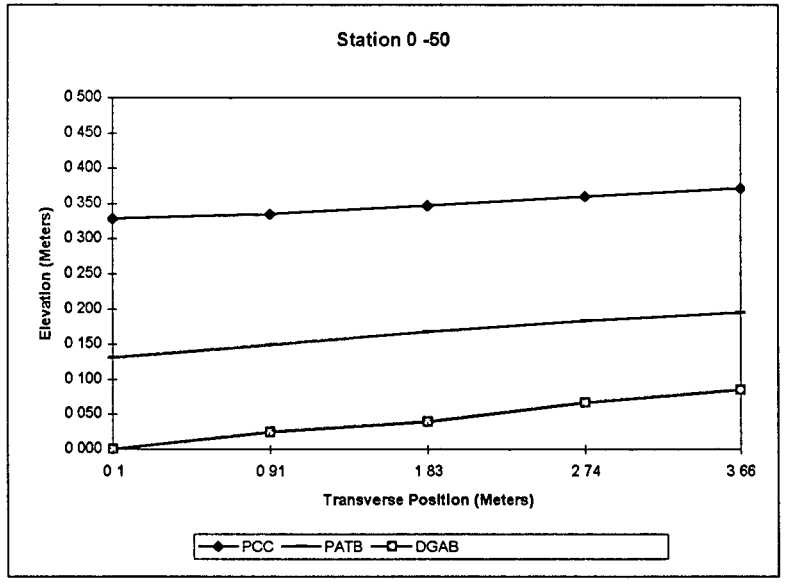


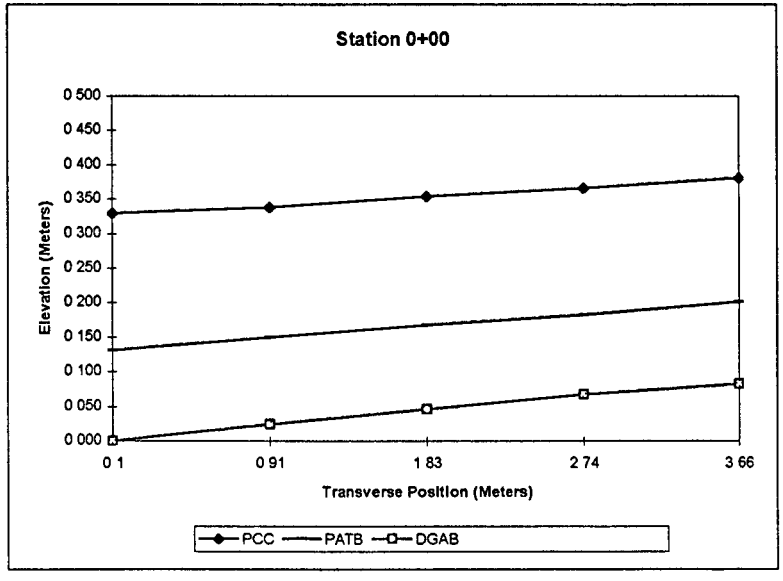


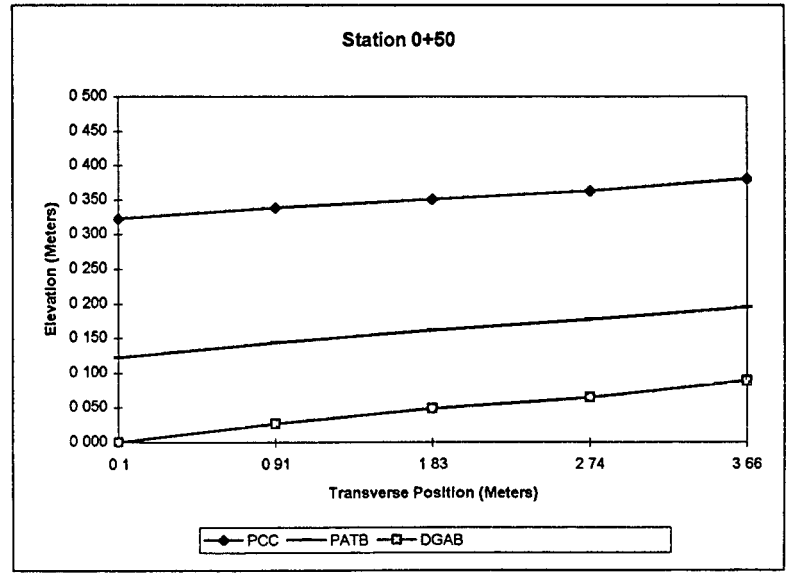
Arkansas SPS-2 (050209)

Transverse Offset	3 LAYERS	ELEVATION 0.3 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters
0 -50	PCC	1.108	0.198	0.131	1.114	0.186	0.125	1.126	0.180	0.128	1.138	0.177	0.116	1.150	0.177	0.110
	PATB	0.910			0.928			0.946			0.961			0.974		
	DGAB	0.779			0.803			0.818			0.846			0.864		
0+00	PCC	1.047	0.198	0.131	1.056	0.189	0.125	1.071	0.186	0.122	1.083	0.183	0.116	1.099	0.180	0.119
	PATB	0.849			0.867			0.885			0.900			0.919		
	DGAB	0.718			0.742			0.763			0.785			0.800		
0+50	PCC	0.977	0.201	0.122	0.992	0.195	0.116	1.004	0.189	0.113	1.016	0.186	0.113	1.035	0.186	0.107
	PATB	0.775			0.797			0.815			0.830			0.849		
	DGAB	0.654			0.681			0.702			0.718			0.742		
1+00	PCC	0.913	0.195	0.125	0.925	0.189	0.128	0.937	0.180	0.128	0.952	0.183	0.113	0.967	0.177	0.113
	PATB	0.718			0.736			0.757			0.769			0.791		
	DGAB	0.593			0.608			0.629			0.657			0.678		
1+50	PCC	0.849	0.201	0.116	0.861	0.192	0.116	0.876	0.192	0.116	0.888	0.189	0.110	0.907	0.192	0.113
	PATB	0.647			0.669			0.684			0.699			0.715		
	DGAB	0.532			0.553			0.568			0.590			0.602		
2+00	PCC	0.791	0.201	0.107	0.803	0.192	0.119	0.818	0.192	0.119	0.833	0.195	0.110	0.846	0.186	0.119
	PATB	0.590			0.611			0.626			0.638			0.660		
	DGAB	0.483			0.492			0.507			0.529			0.541		
2+50	PCC	0.733	0.198	0.116	0.742	0.186	0.137	0.757	0.186	0.116	0.772	0.186	0.110	0.788	0.183	0.113
	PATB	0.535			0.556			0.571			0.586			0.605		
	DGAB	0.419			0.419			0.455			0.477			0.492		
3+00	PCC	0.669	0.207	0.107	0.678	0.192	0.116	0.693	0.195	0.116	0.705	0.195	0.107	0.724	0.192	0.119
	PATB	0.462			0.486			0.498			0.510			0.532		
	DGAB	0.355			0.370			0.382			0.404			0.413		
3+50	PCC	0.611	0.204	0.104	0.617	0.186	0.104	0.635	0.186	0.104	0.650	0.186	0.104	0.666	0.183	0.104
	PATB	0.407			0.431			0.449			0.465			0.483		
	DGAB	0.303			0.327			0.346			0.361			0.379		
4+00	PCC	0.559	0.223	0.098	0.568	0.210	0.101	0.583	0.207	0.098	0.599	0.210	0.098	0.611	0.201	0.104
	PATB	0.337			0.358			0.376			0.388			0.410		
	DGAB	0.239			0.257			0.279			0.291			0.306		
4+50	PCC	0.507	0.219	0.094	0.516	0.207	0.091	0.532	0.207	0.088	0.547	0.207	0.082	0.562	0.207	0.088
	PATB	0.288			0.309			0.324			0.340			0.355		
	DGAB	0.193			0.218			0.236			0.257			0.266		
5+00	PCC	0.434	0.216	0.091	0.446	0.201	0.094	0.462	0.201	0.091	0.477	0.201	0.098	0.489	0.195	0.098
	PATB	0.218			0.245			0.260			0.276			0.294		
	DGAB	0.126			0.151			0.169			0.178			0.196		
5+50	PCC	0.364	0.210	0.094	0.376	0.201	0.101	0.391	0.198	0.098	0.407	0.198	0.098	0.419	0.192	0.107
	PATB	0.154			0.175			0.193			0.209			0.227		
	DGAB	0.059			0.074			0.096			0.111			0.120		
	AVG		0.206	0.111		0.195	0.113		0.192	0.110		0.192	0.105		0.189	0.108
	MAX		0.223	0.131		0.210	0.137		0.207	0.128		0.210	0.116		0.207	0.119
	MIN		0.195	0.091		0.186	0.091		0.180	0.088		0.177	0.082		0.177	0.088
	STD		0.009	0.014		0.008	0.014		0.009	0.013		0.010	0.010		0.009	0.008

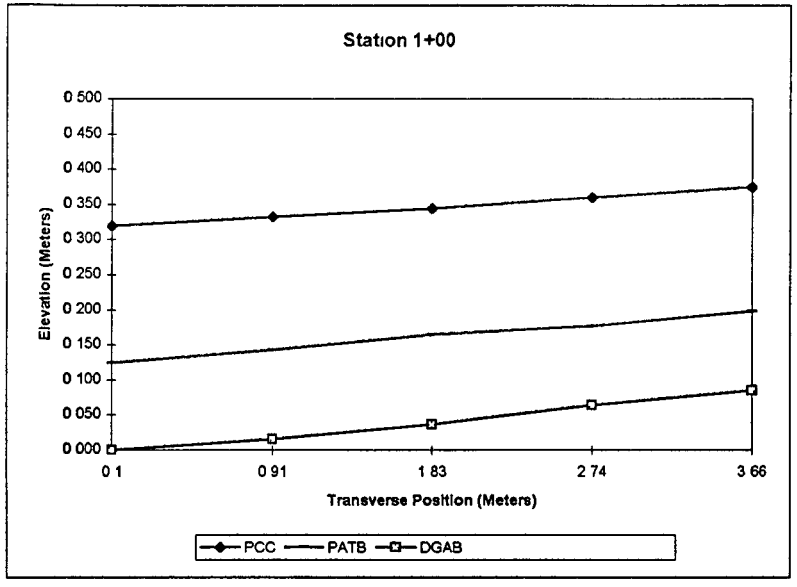
Arkansas SPS-2 (050209)

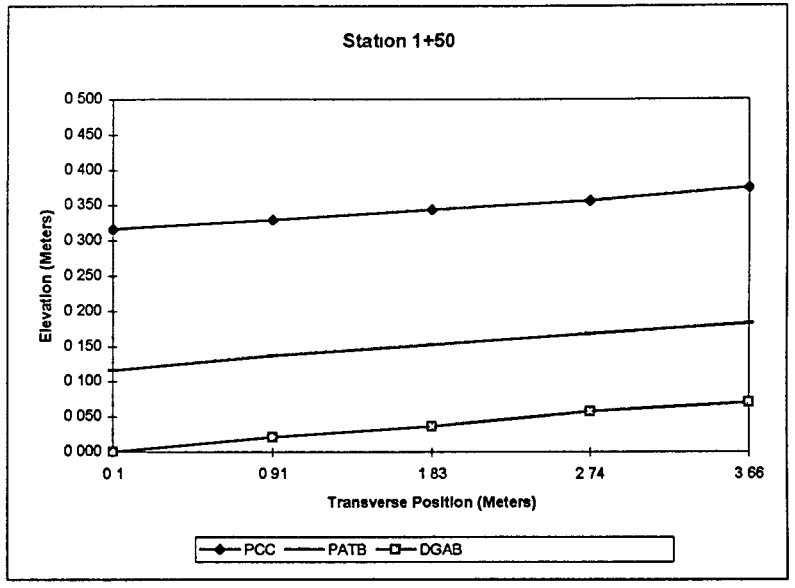


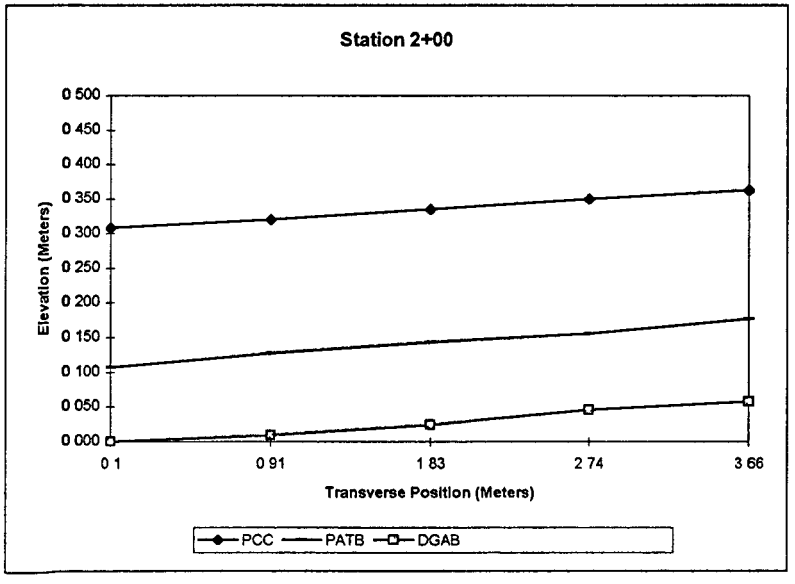


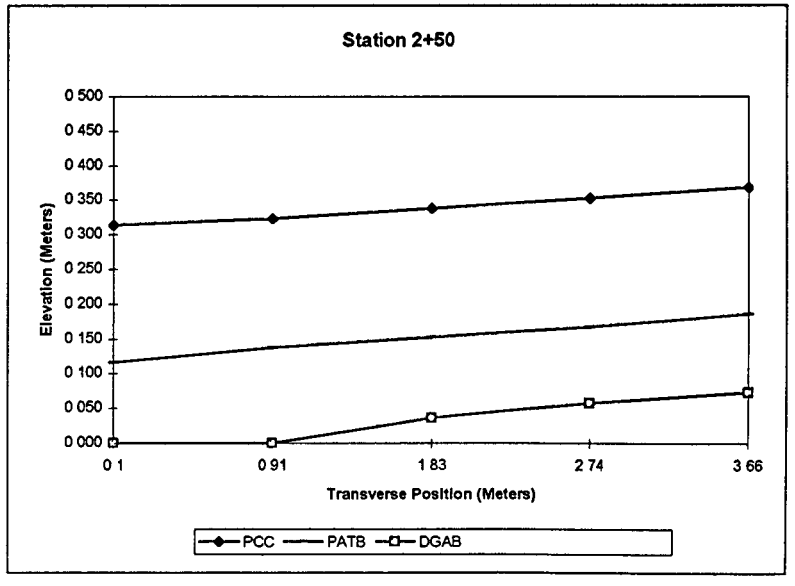


Arkansas SPS-2 (050209)

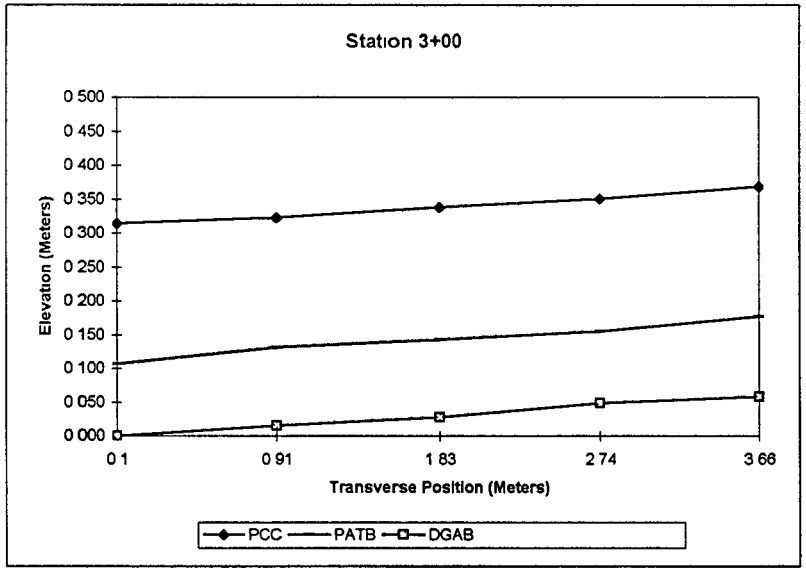


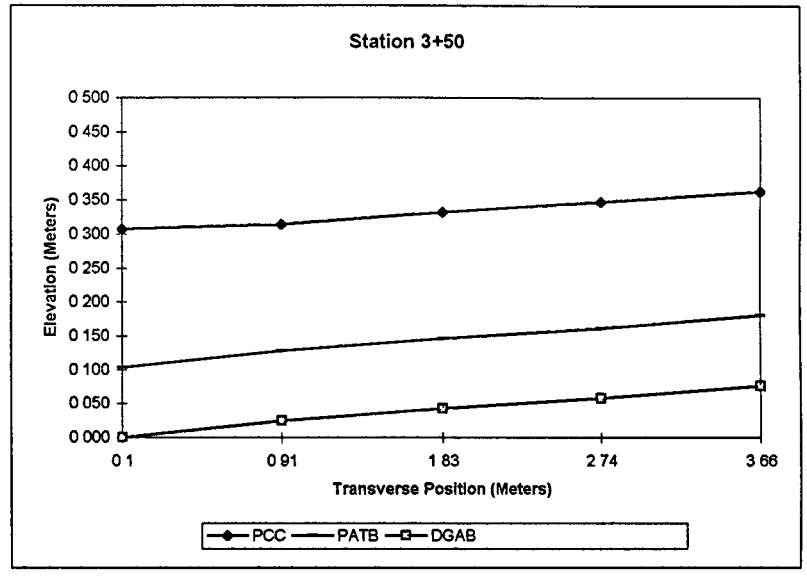


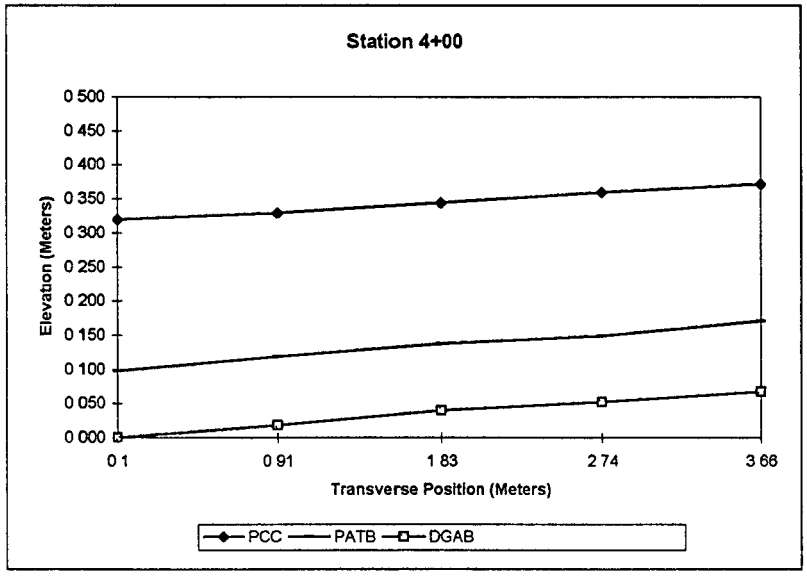


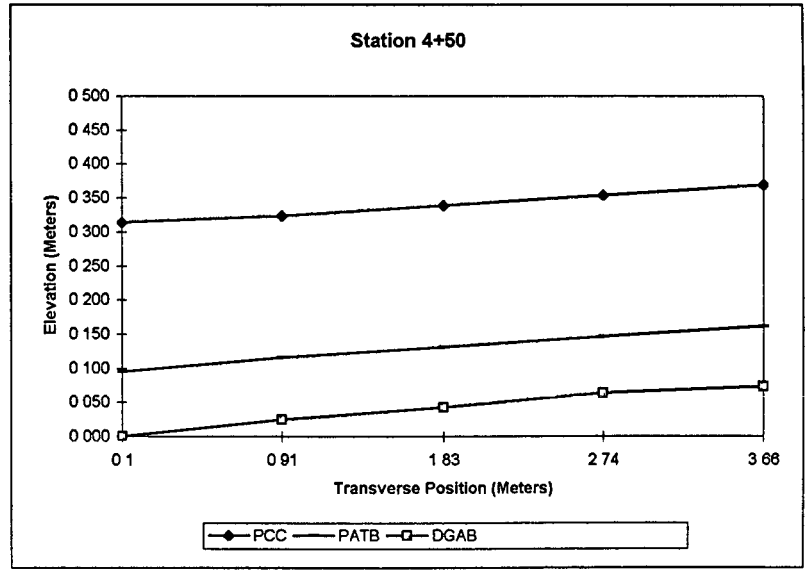


Arkansas SPS-2 (050209)









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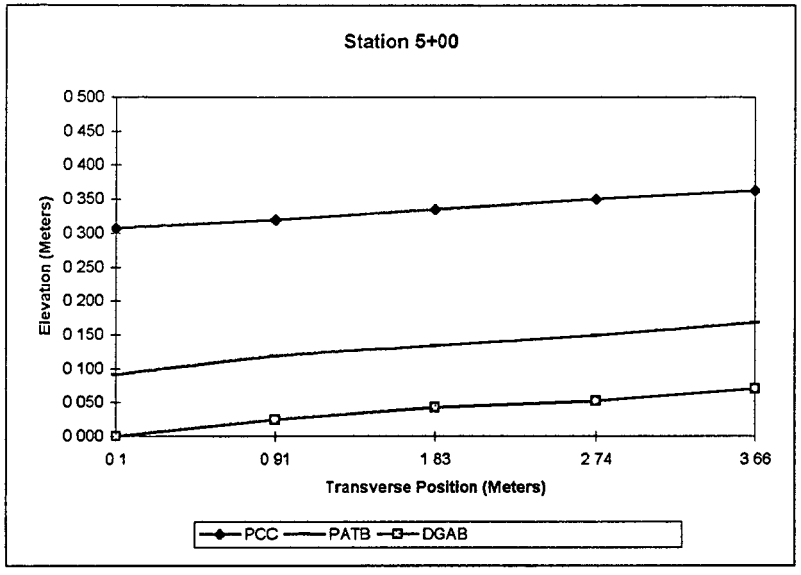
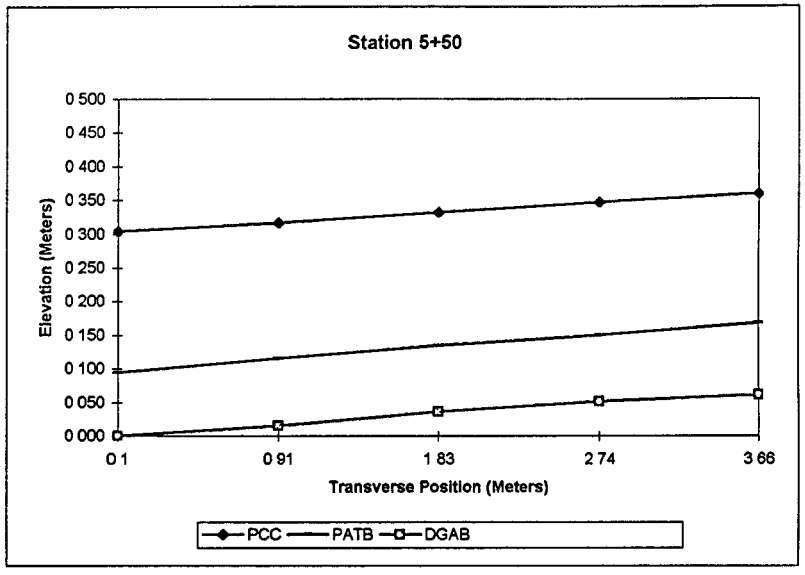
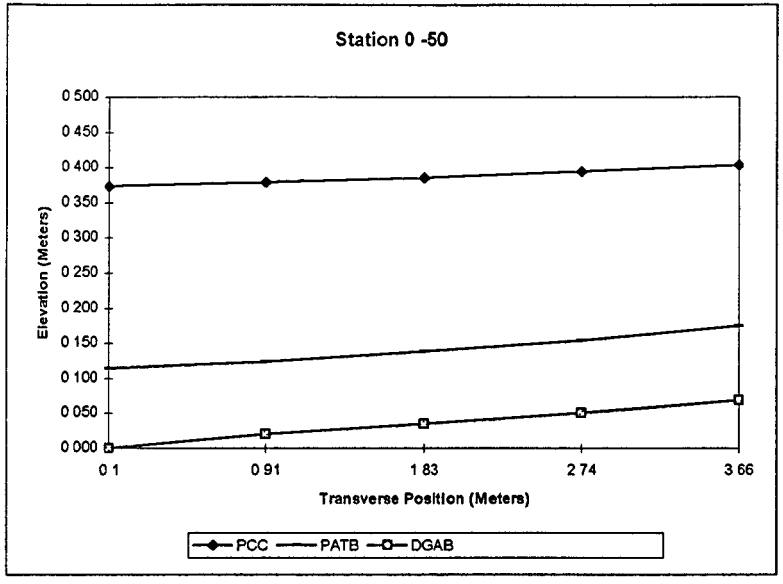


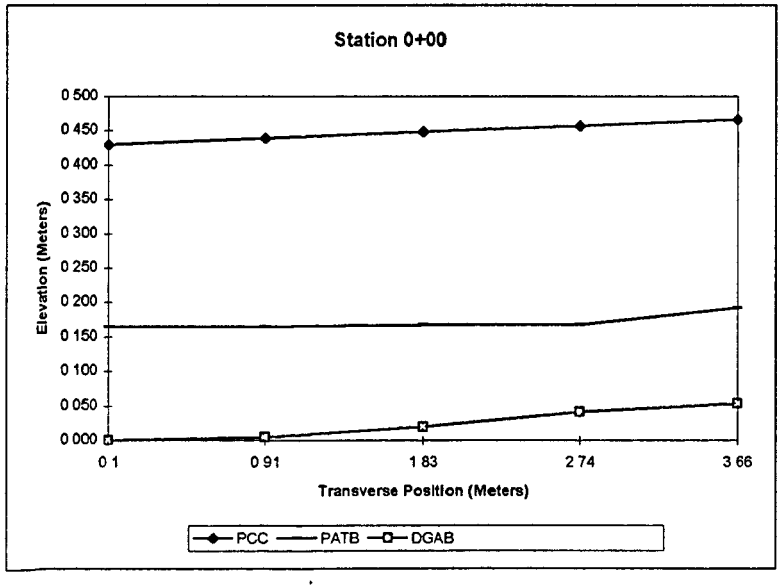


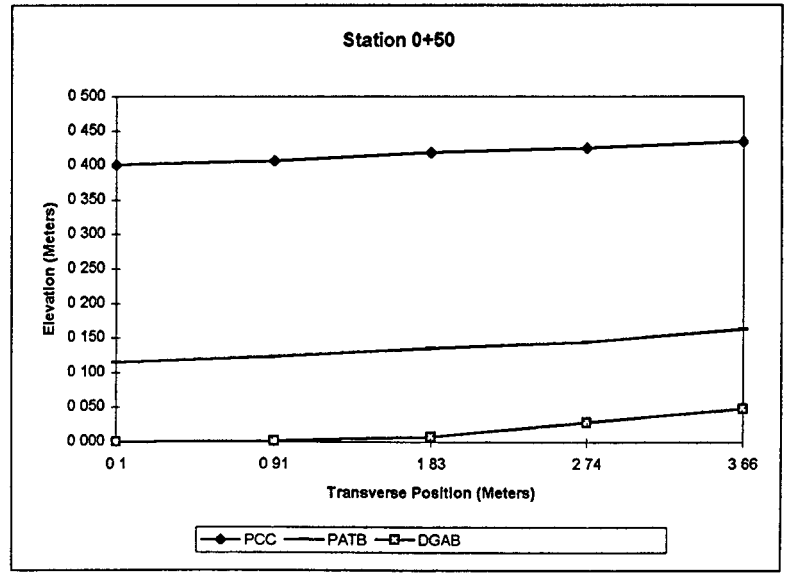
Arkansas SPS-2 (050211)

Transverse Offset	3 LAYERS	ELEVATION 0.3 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters
0 -50	PCC	3 632	0 259	0 114	3 638	0 256	0 104	3 644	0 247	0 104	3 653	0 241	0 104	3 662	0 229	0 107
	PATB	3 373			3 382			3 397			3 412			3 434		
	DGAB	3 258			3 278			3 293			3 309			3 327		
0+00	PCC	3 464	0 265	0 165	3 473	0 274	0 160	3 482	0 280	0 148	3 491	0 290	0 126	3 501	0 274	0 139
	PATB	3 199			3 199			3 202			3 202			3 226		
	DGAB	3 034			3 039			3 054			3 075			3 088		
0+50	PCC	3 251	0 287	0 114	3 257	0 283	0 122	3 269	0 283	0 128	3 275	0 280	0 116	3 284	0 271	0 114
	PATB	2 964			2 973			2 986			2 995			3 013		
	DGAB	2 850			2 851			2 858			2 879			2 899		
1+00	PCC	3 034	0 287	0 111	3 040	0 274	0 123	3 053	0 274	0 126	3 059	0 274	0 116	3 068	0 265	0 121
	PATB	2 748			2 766			2 778			2 784			2 803		
	DGAB	2 637			2 643			2 652			2 669			2 682		
1+50	PCC	2 797	0 274	0 123	2 806	0 268	0 134	2 815	0 262	0 136	2 827	0 271	0 117	2 836	0 259	0 111
	PATB	2 522			2 537			2 553			2 556			2 577		
	DGAB	2 399			2 403			2 417			2 438			2 466		
2+00	PCC	2 556	0 283	0 119	2 565	0 277	0 126	2 577	0 280	0 117	2 589	0 283	0 111	2 605	0 274	0 120
	PATB	2 272			2 288			2 297			2 306			2 330		
	DGAB	2 153			2 161			2 179			2.195			2 210		
2+50	PCC	2 294	0 277	0 116	2 303	0 268	0 142	2 315	0 271	0 116	2 327	0 274	0 107	2 339	0 265	0 094
	PATB	2 016			2 035			2 044			2 053			2 074		
	DGAB	1 900			1 893			1 928			1 946			1 980		
3+00	PCC	2 016	0 265	0 126	2 025	0 259	0 139	2 038	0 259	0 130	2 050	0 265	0 123	2 062	0 253	0 133
	PATB	1 751			1 766			1 779			1 785			1 809		
	DGAB	1 625			1 628			1 649			1 661			1 676		
3+50	PCC	1 711	0 274	0 107	1 724	0 256	0 137	1 739	0 265	0 117	1 751	0 271	0 105	1 763	0 274	0 101
	PATB	1 437			1 468			1 474			1 480			1 489		
	DGAB	1 330			1 330			1 356			1 375			1 388		
4+00	PCC	1 407	0 256	0 137	1 425	0 265	0 139	1 434	0 262	0 123	1 449	0 262	0 119	1 462	0 259	0 119
	PATB	1 151			1 160			1 172			1 187			1 202		
	DGAB	1 013			1 021			1 049			1 068			1 084		
4+50	PCC	1 096	0 262	0 119	1 111	0 262	0 120	1 123	0 259	0 117	1 135	0 259	0 117	1 145	0 250	0 122
	PATB	0 834			0 849			0 864			0 876			0 895		
	DGAB	0 715			0 728			0 747			0 759			0 773		
5+00	PCC	0 782	0 265	0 105	0 794	0 262	0 126	0 806	0 259	0 116	0 821	0 268	0 110	0 831	0 256	0 116
	PATB	0 517			0 532			0 547			0 553			0 575		
	DGAB	0 411			0 405			0 431			0 443			0 459		
5+50	PCC	0 459	0 271	0 070	0 468	0 262	0 136	0 480	0 262	0 133	0 495	0 265	0 131	0 504	0 259	0 128
	PATB	0 187			0 206			0 218			0 230			0 245		
	DGAB	0 117			0 070			0 085			0 099			0 117		
	AVG	0 271	0 117		0 268	0 132		0 265	0 124		0 268	0 116		0 260	0 117	
	MAX	0 287	0 165		0 283	0 160		0 283	0 148		0 290	0 131		0 274	0 139	
	MIN	0 256	0 070		0 256	0 104		0 247	0 104		0 241	0 104		0 229	0 094	
	STD	0 010	0 021		0 008	0 013		0 010	0 011		0 012	0 008		0 012	0 012	

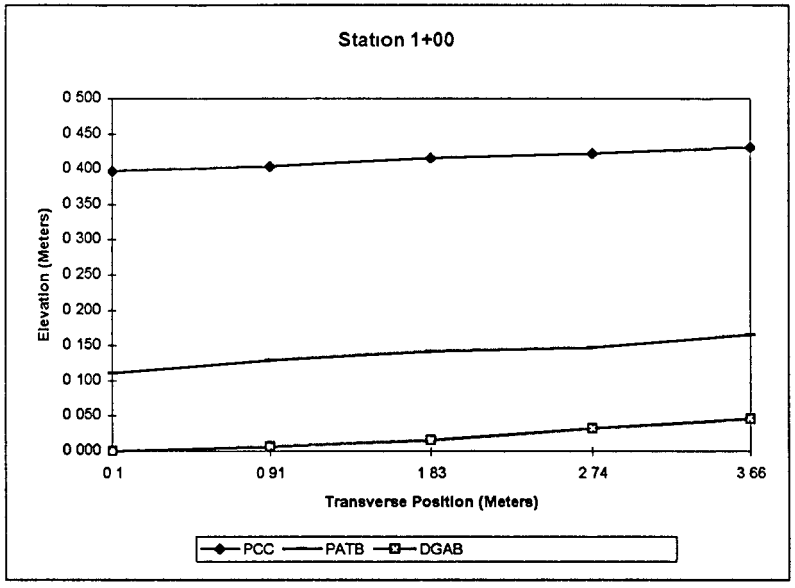
Arkansas SPS-2 (050211)

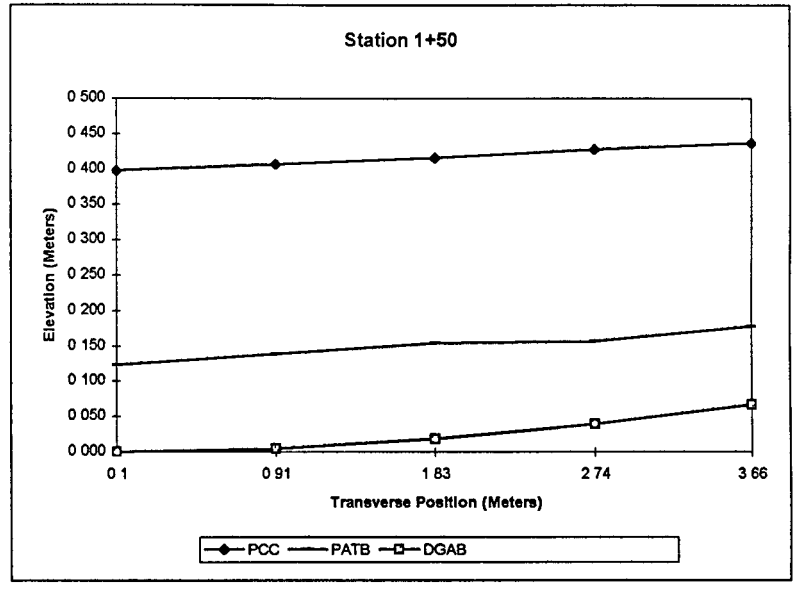


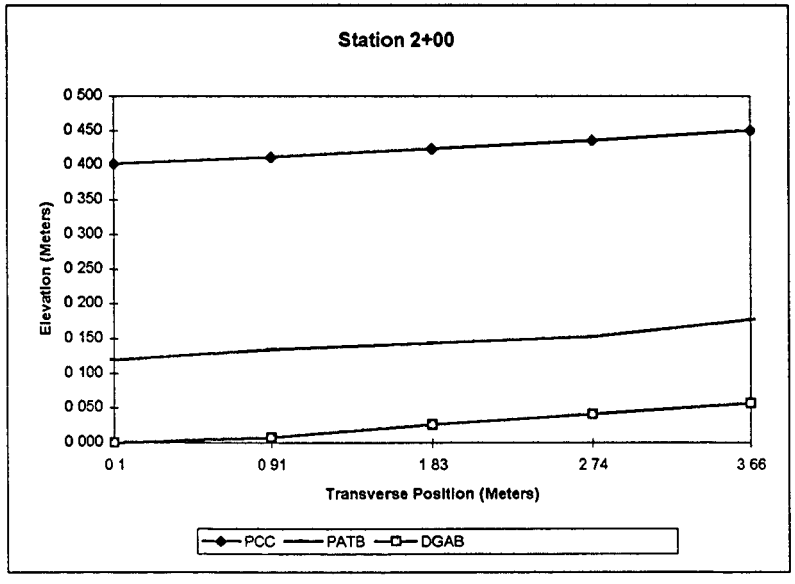


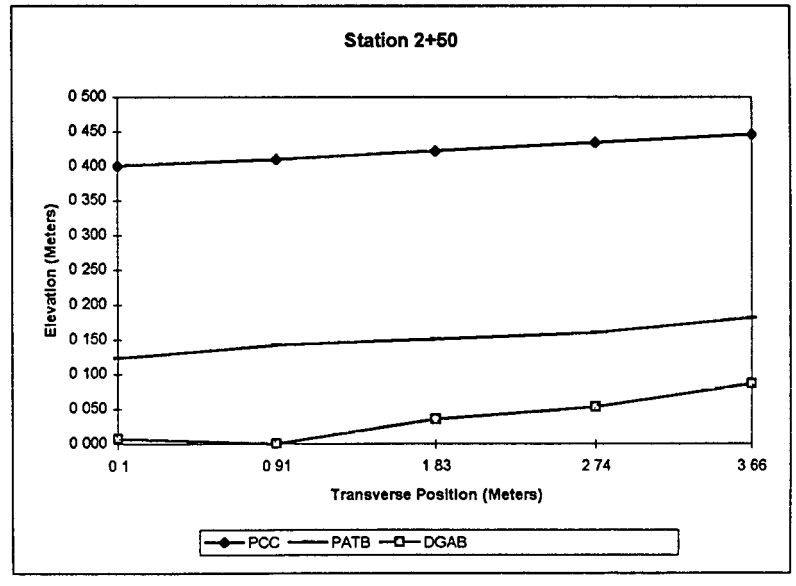


Arkansas SPS-2 (050211)

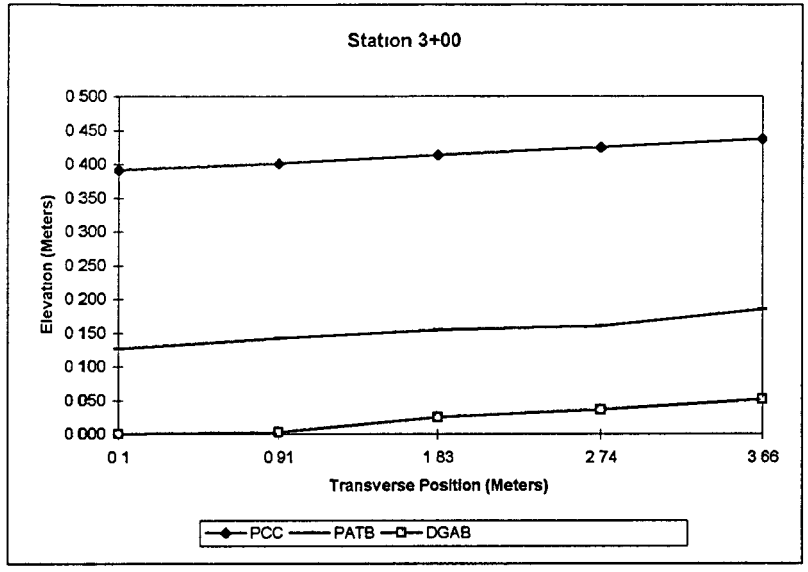


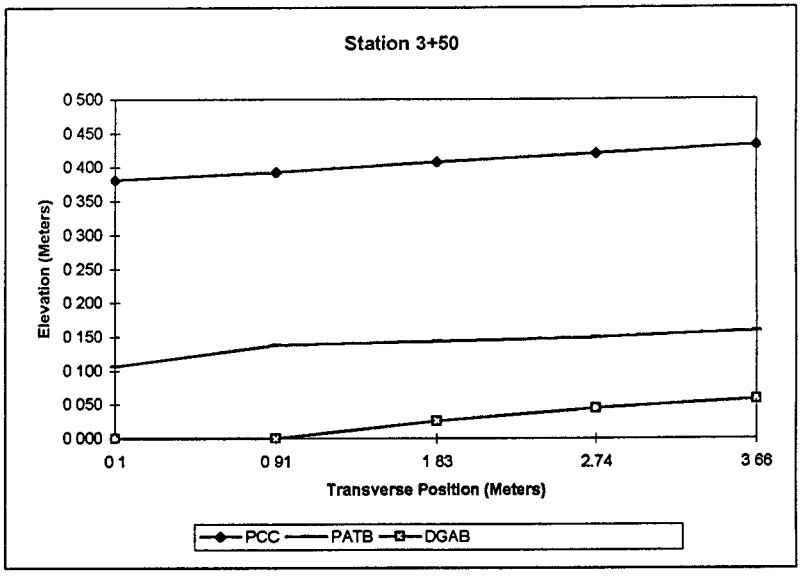


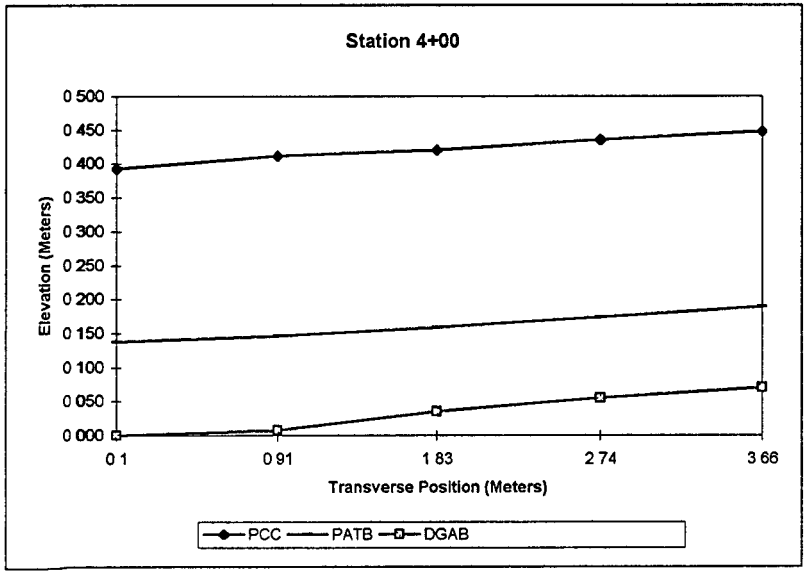


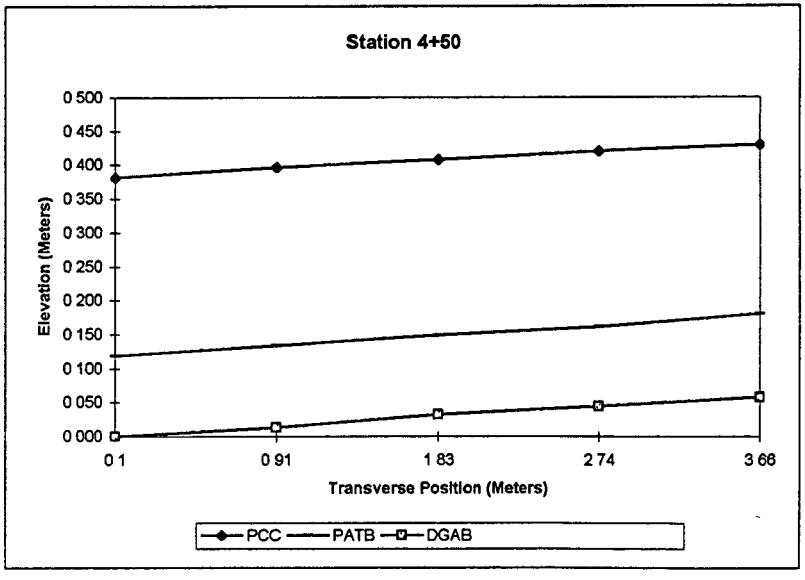


Arkansas SPS-2 (050211)









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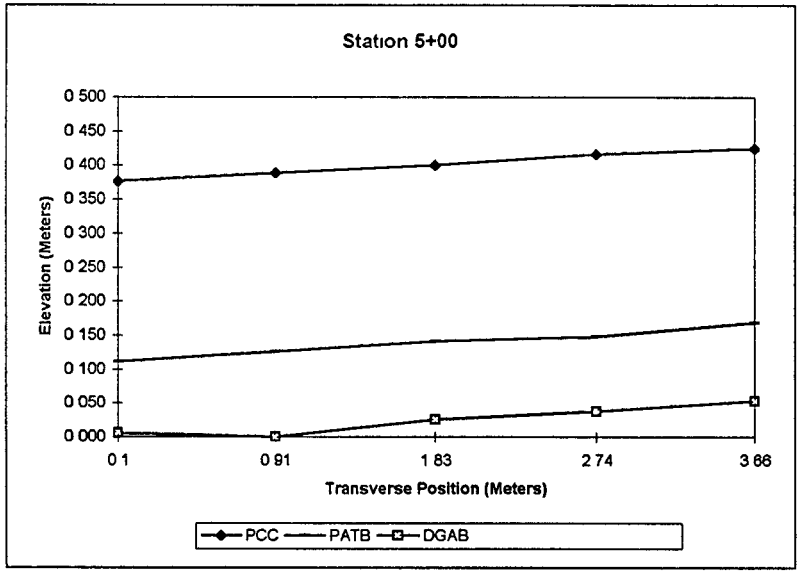
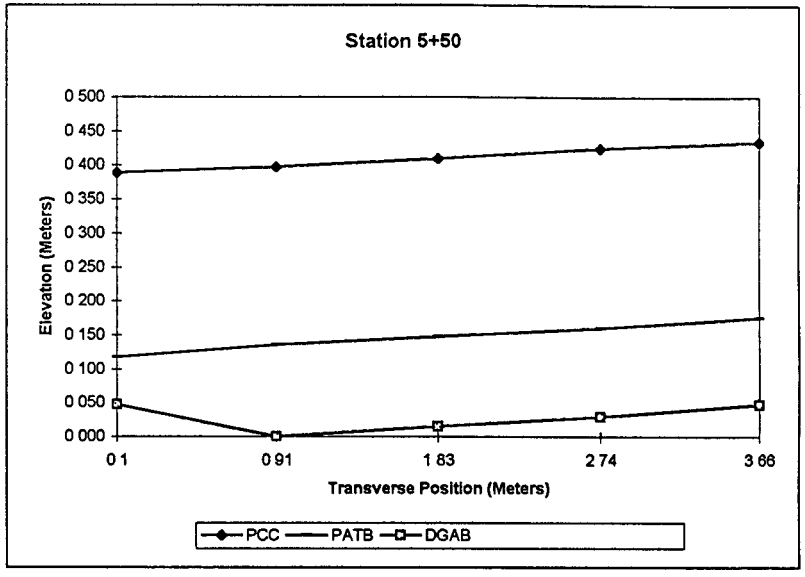
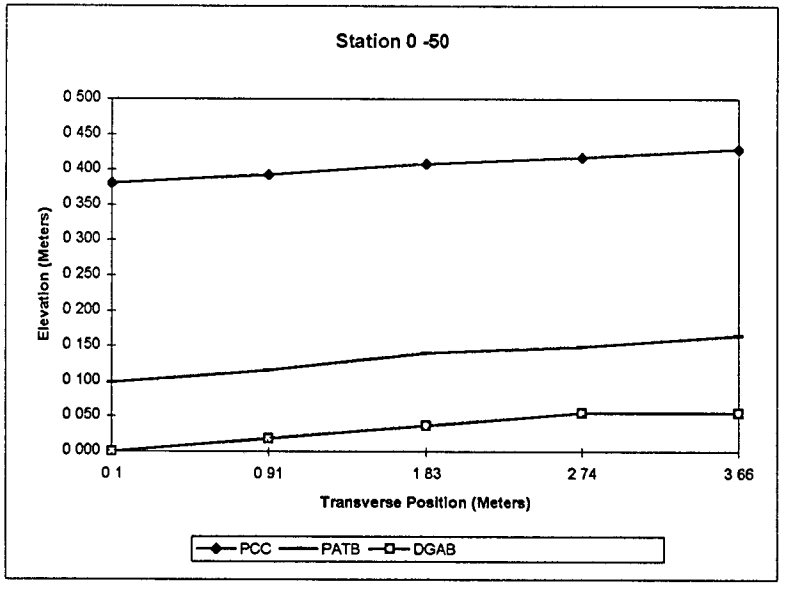


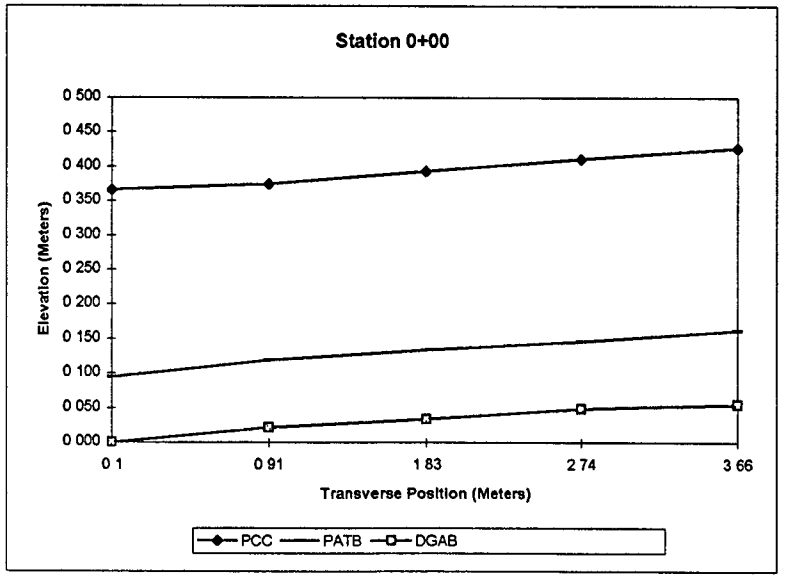


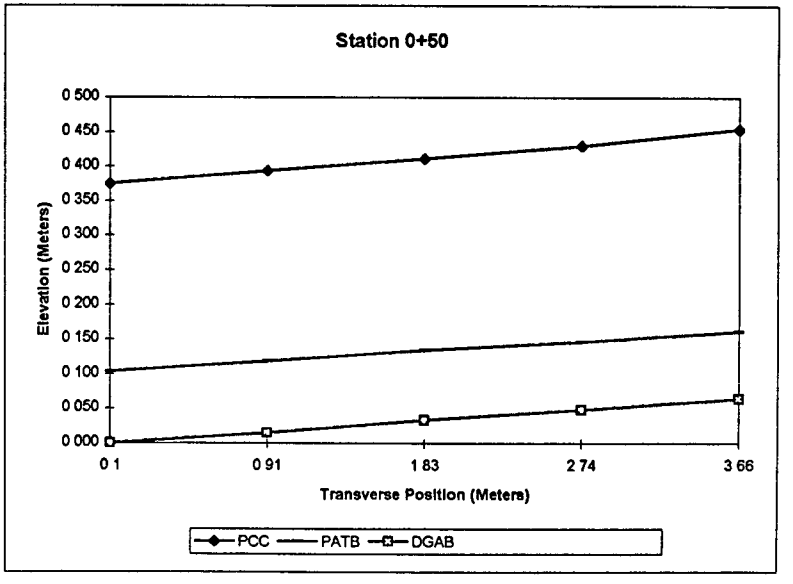
Arkansas SPS-2 (050212)

Transverse Offset	3 LAYERS	ELEVATION 0.1 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 0.91 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 1.83 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 2.74 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters	ELEVATION 3.66 Meters	PCC THICKNESS Meters	PATB THICKNESS Meters
0 -50	PCC	0 472	0 283	0 098	0 485	0 277	0 098	0 500	0 268	0 104	0 509	0 268	0 094	0 521	0 265	0 110
	PATB	0 189			0 207			0 232			0 241			0 256		
	DGAB	0 091			0 110			0 128			0 146			0 146		
0+00	PCC	0 698	0 271	0 094	0 707	0 256	0 098	0 725	0 259	0 101	0 744	0 265	0 098	0 759	0 265	0 107
	PATB	0 427			0 451			0 466			0 478			0 494		
	DGAB	0 332			0 353			0 366			0 381			0 387		
0+50	PCC	0 945	0 271	0 104	0 963	0 274	0 104	0 981	0 277	0 101	1 000	0 283	0 098	1 024	0 293	0 098
	PATB	0 674			0 689			0 704			0 716			0 731		
	DGAB	0 570			0 585			0 603			0 619			0 634		
1+00	PCC	1 216	0 262	0 094	1 240	0 268	0 094	1 259	0 274	0 088	1 274	0 277	0 085	1 298	0 277	0 098
	PATB	0 954			0 972			0 984			0 997			1 021		
	DGAB	0 859			0 878			0 896			0 911			0 923		
1+50	PCC	1 557	0 293	0 088	1 579	0 296	0 088	1 597	0 299	0 085	1 615	0 305	0 088	1 634	0 299	0 104
	PATB	1 265			1 283			1 298			1 311			1 335		
	DGAB	1 176			1 195			1 213			1 222			1 231		
2+00	PCC	1 905	0 274	0 094	1 929	0 274	0 101	1 948	0 280	0 091	1 966	0 287	0 082	1 984	0 280	0 094
	PATB	1 631			1 655			1 667			1 679			1 704		
	DGAB	1 536			1 554			1 576			1 597			1 609		
2+50	PCC	2 301	0 271	0 104	2 326	0 274	0 107	2 344	0 280	0 098	2 365	0 290	0 110	2 386	0 290	0 110
	PATB	2 030			2 051			2 063			2 076			2 097		
	DGAB	1 926			1 945			1 966			1 966			1 987		
3+00	PCC	2 719	0 271	0 091	2 743	0 274	0 093	2 758	0 274	0 087	2 780	0 283	0 084	2 798	0 283	0 087
	PATB	2 447			2 469			2 484			2 496			2 514		
	DGAB	2 356			2 376			2 397			2 412			2 428		
3+50	PCC	3 152	0 271	0 085	3 176	0 274	0 088	3 194	0 280	0 088	3 209	0 287	0 085	3 228	0 287	0 101
	PATB	2 880			2 902			2 914			2 923			2 941		
	DGAB	2 795			2 813			2 825			2 838			2 841		
4+00	PCC	3 587	0 268	0 107	3 609	0 271	0 101	3 624	0 268	0 098	3 639	0 271	0 098	3 657	0 280	0 088
	PATB	3 319			3 337			3 356			3 368			3 377		
	DGAB	3 212			3 237			3 258			3 270			3 289		
4+50	PCC	4 020	0 271	0 088	4 045	0 280	0 079	4 063	0 287	0 079	4 078	0 287	0 085	4 096	0 299	0 085
	PATB	3 749			3 764			3 776			3 792			3 798		
	DGAB	3 661			3 685			3 697			3 706			3 712		
5+00	PCC	4 468	0 277	0 098	4 487	0 277	0 101	4 502	0 280	0 107	4 517	0 280	0 101	4 535	0 280	0 110
	PATB	4 191			4 209			4 221			4 237			4 255		
	DGAB	4 093			4 109			4 115			4 136			4 145		
5+50	PCC	4 889	0 271	0 104	4 907	0 280	0 098	4 913	0 271	0 107	4 925	0 268	0 116	4 938	0 280	0 110
	PATB	4 618			4 627			4 642			4 657			4 657		
	DGAB	4 514			4 529			4 535			4 541			4 548		
	AVG		0 274	0 096		0 275	0 096		0 277	0 095		0 280	0.095		0 283	0.100
	MAX		0 293	0 107		0 296	0 107		0 299	0 107		0 305	0 116		0 299	0.110
	MIN		0 262	0 085		0 256	0 079		0 259	0 079		0 265	0 084		0 265	0 085
	STD		0 007	0 007		0 009	0 007		0 010	0 009		0 011	0 010		0 011	0 009

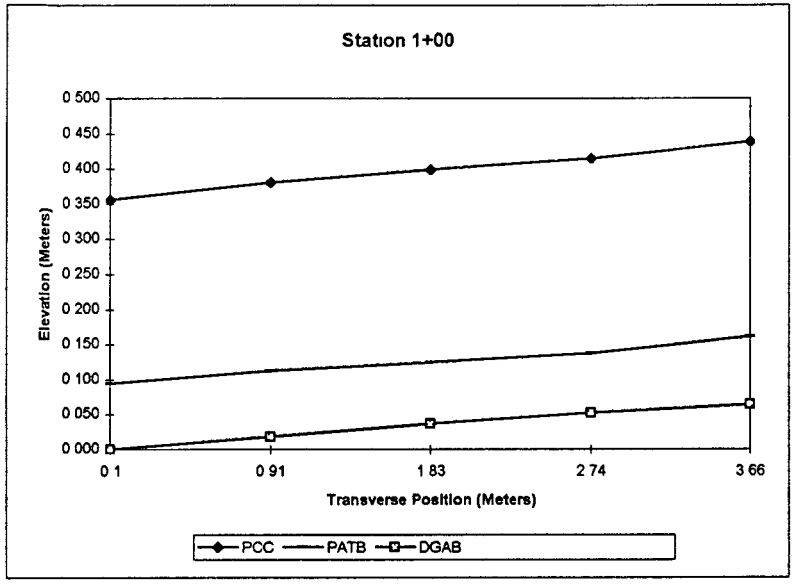
Arkansas SPS-2 (050212)

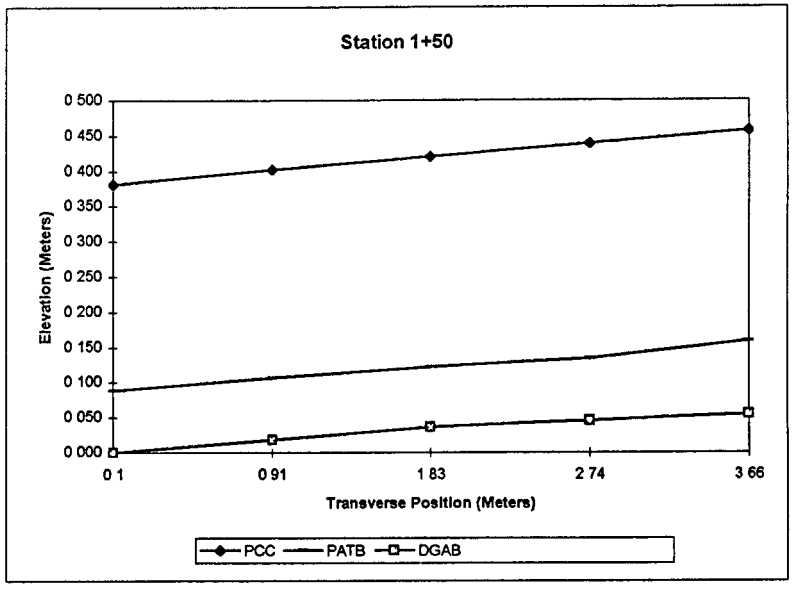


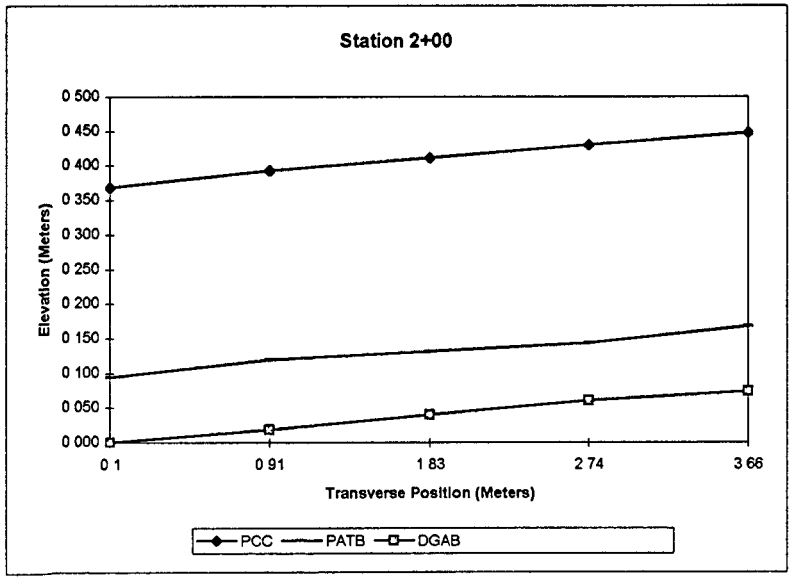


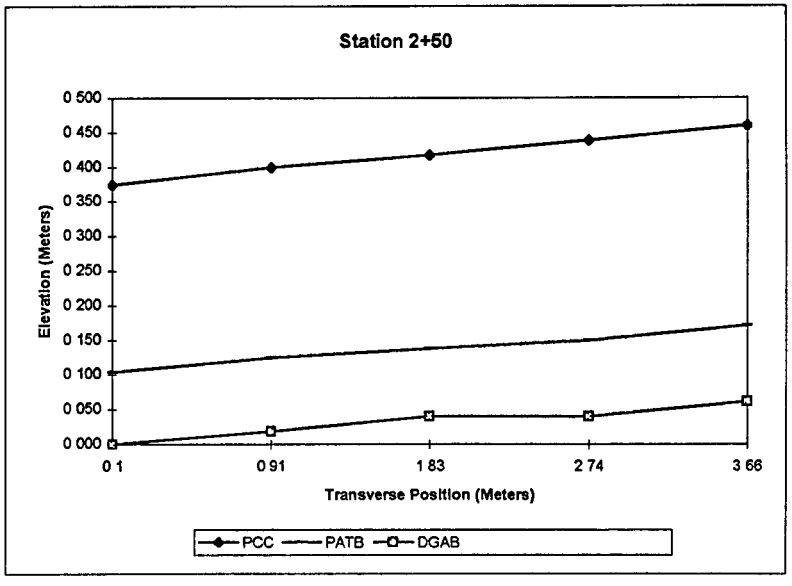


Arkansas SPS-2 (050212)









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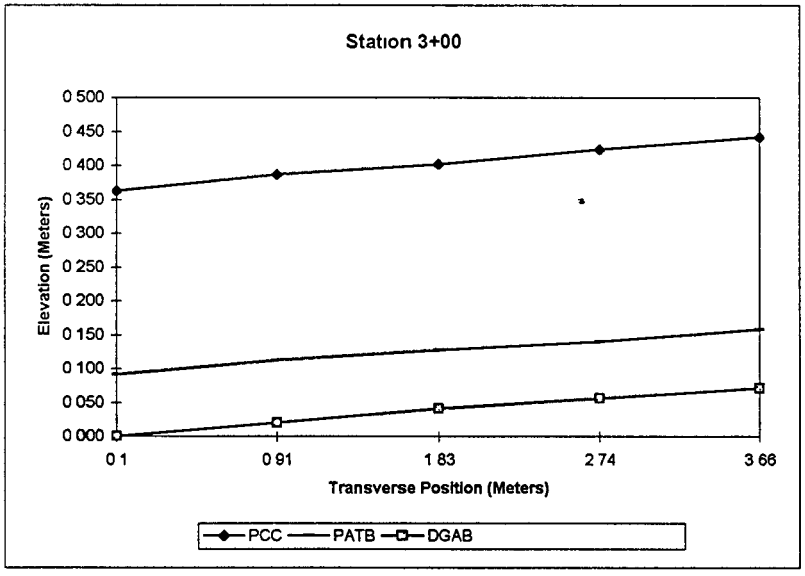

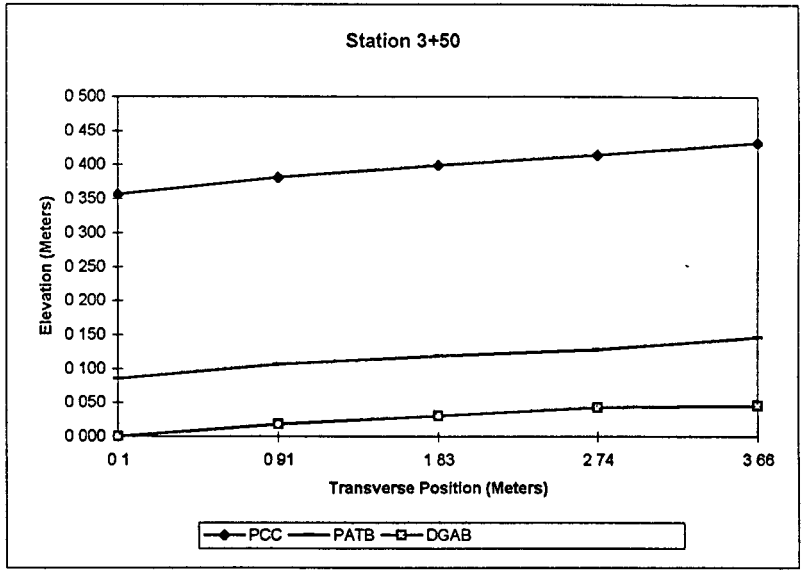

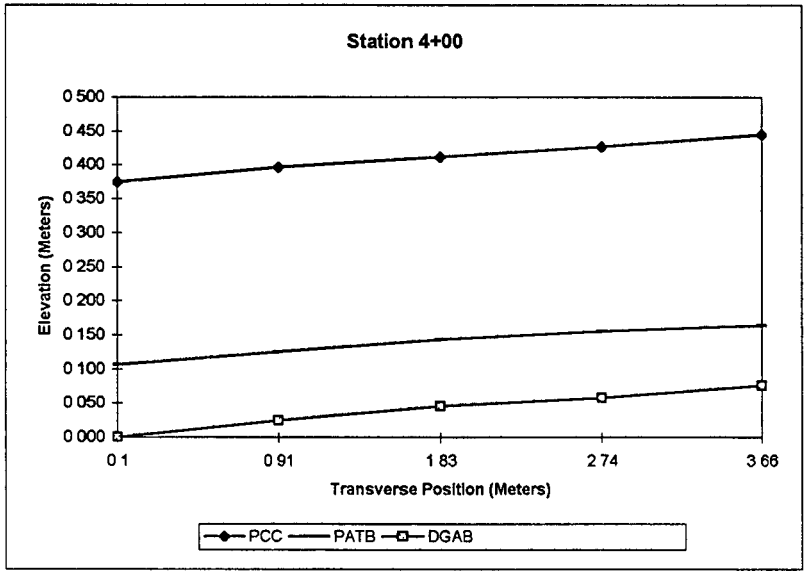

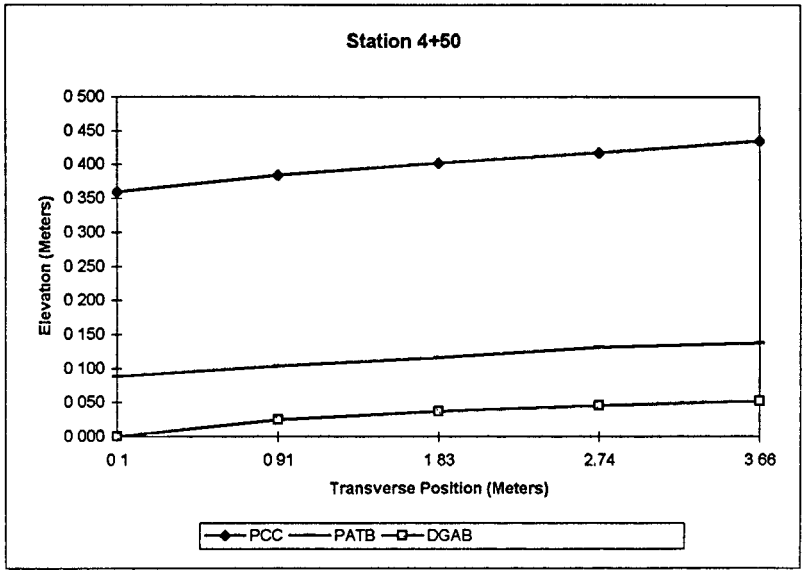

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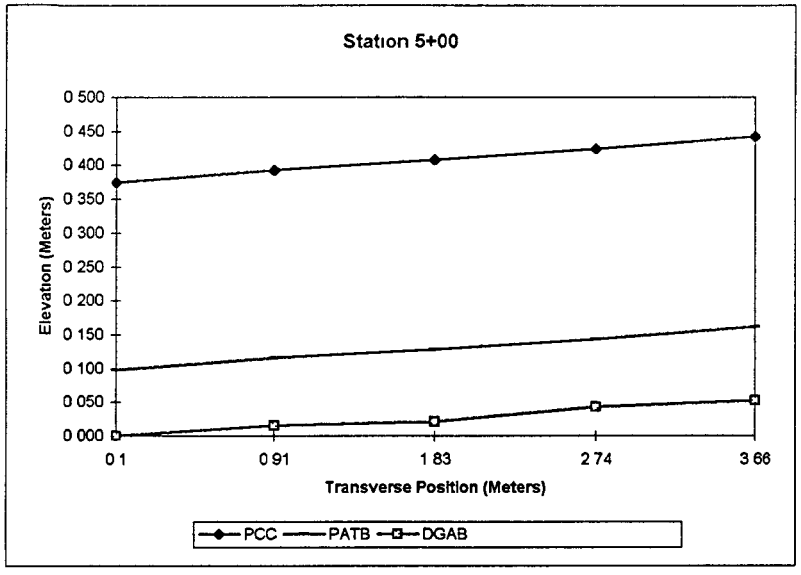

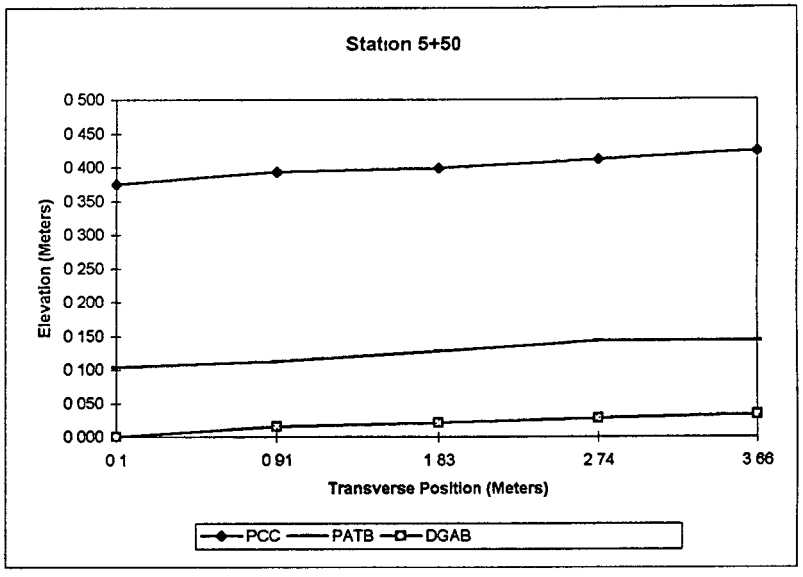

APPENDIX D

CONSTRUCTION DATA

SPS-2 CONSTRUCTION DATA SHEET 1 PROJECT IDENTIFICATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 0]

ENTERED FEB 28 1997 J B1

*1. DATE OF DATA COLLECTION OR UPDATE (Month/Year) [0 2/9 6]

*2. STATE HIGHWAY AGENCY (SHA) DISTRICT NUMBER [_ 6.]

*3. COUNTY OR PARISH [059 ~~0~~.]

4. FUNCTIONAL CLASS (SEE TABLE A.2, APPENDIX B) [0 1.]

*5. ROUTE SIGNING (NUMERIC CODE) [1.]
Interstate... 1 U.S.... 2 State... 3
Other... 4

*6. ROUTE NUMBER [_ _ _ 3 0.]

7. TYPE OF PAVEMENT (See Codes Below) [2 0.]

8. NUMBER OF THROUGH LANES (ONE DIRECTION) [2.]

*9. DATE OF CONSTRUCTION COMPLETION (Month/Year) [1 0/9 5]

*10. DATE OPENED TO TRAFFIC (Month/Year) [_ _/_ _]

11. CONSTRUCTION COSTS PER LANE MILE (In $1000) [_ _ _ _ _.]

12. DIRECTION OF TRAVEL [2.]
East Bound... 1 West Bound... 2 North Bound... 3
South Bound... 4

PROJECT STARTING POINT LOCATION

*13. MILEPOINT [1 1 0.4 4]

*14. ELEVATION [_ _ _ _ _]

*15. LATITUDE [_ _° _ _' _ _ . _ _"]

*16. LONGITUDE [_ _ _° _ _' _ _ . _ _"]

17. ADDITIONAL LOCATION INFORMATION (SIGNIFICANT LANDMARKS): [Project begins at the intersection of Hwy 30 and Hwy 70 and extends westbound approximately 4 miles. Nov 1, 1995 would be 14-day coding. I don't know if it was opened until at least mid November or maybe even December 1995 ZWD. 3/5/98]

18. HPMS SAMPLE NUMBER (HPMS ITEM 28) [_ _ _ _ _ _ _ _ _ _ _ _]

19. HPMS SECTION SUBDIVISION (HPMS ITEM 29) [_.]

VALID PAVEMENT TYPE CODES FOR SPS-2, SPS-2A, and SPS-2B

JPCP on unbound base	17
JRCP on unbound base	18
JPCP on Bituminous base	20
JRCP on Bituminous base	21
JPCP on Lean Concrete Base	23
JRCP on Lean Concrete Base	24

Elevation 443'
(plans, section 050215)
State ~~Station~~ 5960+00
long 92° 34'
lat 34° 33'
} from a mapping program, not GPS.

PJ 97/3/21

EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 3 REFERENCE PROJECT STATION TABLE	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [02]

ZWP 3/5/97

ENTERED FEB 28 1997 J B1

ORDER	*1 TEST SECTION ID NO	REFERENCE PROJECT STATION NUMBER *2 START	*3 END	*4 CUT-FILL[1] TYPE
1	050203	0+00	5+00	1
2	050211	8+00	13+00	1
3	050202	25+50	30+50	2
4	050210	35+50	40+50	2
5	050207	49+00	54+00	1
6	050206	58+00	63+00	1
7	050205	73+00	78+00	1
8	050208	81+00	86+00	2
9	050212	89+00	94+00	2
10	050204	97+00	102+00	1
11	050201	107+00	112+00	1
12	050209	128+50	133+50	1
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	

*5 INTERSECTIONS BETWEEN TEST SECTION ON THE PROJECT

ROUTE	PROJECT STATION NO.	RAMPS EXIT	RAMPS ENT	INTERSECTION STOP	INTERSECTION SIGNAL	INTERSECTION UNSIG
	+					
	+					
	+					

Note 1. Indicate the type of subgrade construction the test section is located on:
Cut... 1 Fill... 2 At-Grade... 3 Cut, Fill, and At-Grade Combo... 4

If a section contains any combination of cut, fill and at-grade portions (code 4 above), enter the specific details of the cut, fill and at-grade locations on SPS-2 Construction Data Sheet 7.

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [ ]

ENTERED MAR 07 1997 J B 1

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER *2 START	*3 END	*4 TEST SECTION NUMBER [2]
1	2 1	0 + 0 0	5 + 0 0	0 5 0 2 0 3
2	1	8 + 0 0	1 3 + 0 0	0 5 0 2 1 1
3	2	2 5 + 5 0	3 0 + 5 0	0 5 0 2 0 2
4	2	3 5 + 5 0	4 0 + 5 0	0 5 0 2 1 0
5	1	4 9 + 0 0	5 4 + 0 0	0 5 0 2 0 7
6	1	5 8 + 0 0	6 3 + 0 0	0 5 0 2 0 6
7	1	7 3 + 0 0	7 8 + 0 0	0 5 0 2 0 5
8	2	8 2 + 0 0	8 7 + 0 0	0 5 0 2 0 8
9	2	8 9 + 0 0	9 4 + 0 0	0 5 0 2 1 2
10	1	9 7 + 0 0	1 0 2 + 0 0	0 5 0 2 0 4
11	1	1 0 7 + 0 0	1 1 2 + 0 0	0 5 0 2 0 1
12	1	1 2 8 + 5 0	1 3 3 + 5 0	0 5 0 2 0 9
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES: 1. Indicate the type of subgrade section with one of the following:

Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

WD. 3/5/97

PREPARED WP.1D EMPLOYER BRE DATE 01/05/96

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	[0 5] [0 0 2] [0 1]

* 1. LANE WIDTH (Feet) [1 4.]

2. MONITORING SITE LANE NUMBER [1.]
(LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER
LANE 2 IS NEXT TO LANE 1, ETC.)

SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3. SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4. TOTAL SHOULDER WIDTH (Feet)	[4.]	[8.]
* 5. PAVED SHOULDER WIDTH (Feet)	[2.]	[8]
6. SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7. SHOULDER SURFACE THICKNESS (Inches)	[1. 5]	[1. 5]
8. SHOULDER BASE THICKNESS (Inches)	[9. 5]	[9. 5]

* 9. SUBSURFACE DRAINAGE TYPE [4.]
No Subsurface Drainage... 1 Longitudinal Drains... 2
Transverse Drains... 3 Drainage Blanket... 4 Well System... 5
Drainage Blanket with Longitudinal Drains... 6
Other (Specify)... 7 _____

*10. SUBSURFACE DRAINAGE LOCATION [1.]
Continuous Along Test Section... 1 Intermittent... 2

11. DIAMETER OF LONGITUDINAL DRAINPIPES (Inches) 2ND. [~~4.0~~]

12. SPACING OF LATERALS (Feet) 3/5/97 [~~3 0 0.~~]

ENTERED ... 03-1997 J.T. B.

PREPARER J Peacock EMPLOYER BRE DATE 02/16/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

ENTERED 03 1997 J B

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 5]	[2 3]	[6.0] (2ND.)	___.__	___.__	___.__
3	[0 3]	[0 4]	[7.2]	5.0	8.4	0.7
4	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
5	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
6	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
7	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
8	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
9	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
10	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [__ __ . __]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

RPT

DATE 01/02/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	— — . —	— — . —	— — . —	9.5
	36	— — . —	— — . —	— — . —	4.5
	72	— — . —	— — . —	— — . —	3.5
	108	— — . —	— — . —	— — . —	3.5
	144	— — . —	— — . —	— — . —	9.5
0+00	0	— — . —	— — . —	— — . —	7.6
	36	— — . —	— — . —	— — . —	8.6
	72	— — . —	— — . —	— — . —	9.6
	108	— — . —	— — . —	— — . —	4.6
	144	— — . —	— — . —	— — . —	9.7
0+50	0	— — . —	— — . —	— — . —	6.6
	36	— — . —	— — . —	— — . —	6.6
	72	— — . —	— — . —	— — . —	5.6
	108	— — . —	— — . —	— — . —	7.6
	144	— — . —	— — . —	— — . —	7.6
1+00	0	— — . —	— — . —	— — . —	3.7
	36	— — . —	— — . —	— — . —	3.7
	72	— — . —	— — . —	— — . —	9.7
	108	— — . —	— — . —	— — . —	7.6
	144	— — . —	— — . —	— — . —	6.6
1+50	0	— — . —	— — . —	— — . —	9.7
	36	— — . —	— — . —	— — . —	0.7
	72	— — . —	— — . —	— — . —	9.7
	108	— — . —	— — . —	— — . —	9.7
	144	— — . —	— — . —	— — . —	5.6
2+00	0	— — . —	— — . —	— — . —	8.7
	36	— — . —	— — . —	— — . —	6.7
	72	— — . —	— — . —	— — . —	3.7
	108	— — . —	— — . —	— — . —	9.7
	144	— — . —	— — . —	— — . —	3.7
2+50	0	— — . —	— — . —	— — . —	6.7
	36	— — . —	— — . —	— — . —	4.8
	72	— — . —	— — . —	— — . —	4.7
	108	— — . —	— — . —	— — . —	3.7
	144	— — . —	— — . —	— — . —	1.7
LAYER NUMBER[1]		— —	— —	— —	— —

[1] from Construction Data Sheet 4

PREPARER dgPeacock EMPLOYER BRE DATE 01/05/96

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SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0	__.__	__.__	__.__	7.6
	36	__.__	__.__	__.__	7.6
	72	__.__	__.__	__.__	7.3
	108	__.__	__.__	__.__	7.0
	144	__.__	__.__	__.__	7.0
3+50	0	__.__	__.__	__.__	8.2
	36	__.__	__.__	__.__	8.2
	72	__.__	__.__	__.__	7.9
	108	__.__	__.__	__.__	8.0
	144	__.__	__.__	__.__	7.7
4+00	0	__.__	__.__	__.__	7.8
	36	__.__	__.__	__.__	7.9
	72	__.__	__.__	__.__	7.7
	108	__.__	__.__	__.__	7.8
	144	__.__	__.__	__.__	7.7
4+50	0	__.__	__.__	__.__	8.3
	36	__.__	__.__	__.__	8.0
	72	__.__	__.__	__.__	7.7
	108	__.__	__.__	__.__	7.6
	144	__.__	__.__	__.__	7.7
5+00	0	__.__	__.__	__.__	7.8
	36	__.__	__.__	__.__	7.8
	72	__.__	__.__	__.__	7.7
	108	__.__	__.__	__.__	7.6
	144	__.__	__.__	__.__	7.8
5+50	0	__.__	__.__	__.__	7.9
	36	__.__	__.__	__.__	7.7
	72	__.__	__.__	__.__	7.3
	108	__.__	__.__	__.__	7.4
	144	__.__	__.__	__.__	7.4
__+__	___	__.__	__.__	__.__	__.__
	___	__.__	__.__	__.__	__.__
	___	__.__	__.__	__.__	__.__
	___	__.__	__.__	__.__	__.__
	___	__.__	__.__	__.__	__.__
LAYER NUMBER[1]		__ __	__ __	__ __	__ __

[1] from Construction Data Sheet 4

ENTERED MAR 03 1997 J B

PREPARER [illegible] EMPLOYER BRE DATE 01/05/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory -Steel Wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[__]	[N/A]
*6. STABILIZING AGENT 2	[__]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the Stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

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RDE

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SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		-	+	
5		+	+	
6		-	+	
7		+	+	
8		-	-	
9		-	+	
10		+	+	
11		-	+	
12		+	+	
13		-	+	
14		+	-	
15		+	-	
16		-	-	
17		-	+	
18		-	-	
19		+	-	
20		-	-	
21		-	+	
22		-	-	
23		-	-	
24		-	-	
25		+	-	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

February 1992

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

ENTERED MAR 03 1997 J B

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingram

*5. GROSS WEIGHT (Tons) [2.0]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) _____

Took out 4" of old stone base, replaced w/ recycled then followed w/ 4" lift @ 2 time

NAME [illegible] EMPLOYER BRE DATE 01/08/96

February 1992

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 K] * TEST SECTION NO. [0 1]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.25]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12 DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13 DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base spot checked
(e.g. Pachometer, Ground Penetrating Radar)

RDE DATE 01/08/92

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... 7.0"/3." ..... [2.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12]

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

TYPIST RPE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

N/A

JPC

RDF DATE 5/29/92

550 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 9 7 0.]

*3. Fine Aggregate (Pounds)..... [1 3 3 3.]

*4. Cement (Pounds)..... [_ 3 3 0.]

*5. Water (Pounds)..... [_ 2 1 2.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE 1 [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8.	ADMIXTURE =1 TYPE C FLY ASH [1 1]	58 LBS.	[_ 1 5.0]
*9.	ADMIXTURE =2 AIR-ENTRAINMENT [0 8]	4.4 oz. PER CU.YD.	[_ _ 0.1]
*10.	ADMIXTURE =3 WATER REDUCING [0 1]	15.5 oz. PER CU.YD.	[_ _ 0.3]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify) _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

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SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [2]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel.....3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

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SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

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*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [10-16-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [10-16-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON - Dump Crete Grader Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

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1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1 Burlap-Polyethylene Blanket... 5
   Burlap Curing Blankets..... 2 Cotton Mat Curing..... 6
   Waterproof Paper Blankets..... 3 Hay..... 7
   White Polyethylene Sheeting... 4
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1 Grooved Float..... 4
   Broom..... 2 Astro Turf..... 5
   Burlap Drag..... 3 None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

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February 1992

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

1. DATE PROFILE MEASURED (Month-Day-Year) [0 7 - 0 9 - 9 6]
2. PROFILOGRAPH TYPE Cox + McLaukin California... 1 Rainhart... 2 [1]
3. PROFILE INDEX (Inches/Mile) [6.6]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.2 0]
6. CUTOFF HEIGHT (Inches) [0.3 0]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 1 - 2 0 - 9 5]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 2 2 - 9 6]
11. REASON FOR GRINDING [6]
    Elimination of Faulting... 1 Elimination of Slab Warping... 2
    Improve Skid Resistance... 3
    Restoration of Transverse Drainage Slope... 4
    Correction of Construction Deficiencies...5
    Other (Specify)... 6 To meet profile spec
12. AVERAGE DEPTH OF CUT (Inches) [_ . _ _]
13. CUTTING HEAD WIDTH (Inches) [_ _ _ . _ _]
14. AVERAGE GROOVE WIDTH (Inches) [_ . _]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [_ . _]

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To Boon Thian	Date 12/19/96	# of pages ▶ 1
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Fax #	Phone #	
	Fax #	

EMPLOYEE BRF DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	[0 5] [0 0 2] [0 2]

* 1. LANE WIDTH (Feet) [1 2.]

2. MONITORING SITE LANE NUMBER [1.]
(LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER
LANE 2 IS NEXT TO LANE 1, ETC.)

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SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3. SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4. TOTAL SHOULDER WIDTH (Feet)	[6.]	[1 0.]
* 5. PAVED SHOULDER WIDTH (Feet)	[4.]	[1 0.]
6. SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7. SHOULDER SURFACE THICKNESS (Inches)	[1. 5]	[1. 5]
8. SHOULDER BASE THICKNESS (Inches)	[9. 5]	[9. 5]

* 9. SUBSURFACE DRAINAGE TYPE [4.]
No Subsurface Drainage... 1 Longitudinal Drains... 2
Transverse Drains... 3 Drainage Blanket... 4 Well System... 5
Drainage Blanket with Longitudinal Drains... 6
Other (Specify)... 7 _____

*10. SUBSURFACE DRAINAGE LOCATION [1.]
Continuous Along Test Section... 1 Intermittent... 2

11. DIAMETER OF LONGITUDINAL DRAINPIPES (Inches) [~~4.0~~]

12. SPACING OF LATERALS (Feet) [~~300.~~]

2ND.
3/5/97

PREPARER JPCalock EMPLOYER BRE DATE 02/19/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0] * TEST SECTION NO. [0 2]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 5]	[2 3]	[6.0] (2WD)	- - -.-	- - -.-	- - -.-
3	[0 3]	[0 4]	[7.7]	7.0	8.6	0.4
4	[ ]	[ ]	[-.-]	-.-	-.-	-.-
5	[ ]	[ ]	[-.-]	-.-	-.-	-.-
6	[ ]	[ ]	[-.-]	-.-	-.-	-.-
7	[ ]	[ ]	[-.-]	-.-	-.-	-.-
8	[ ]	[ ]	[-.-]	-.-	-.-	-.-
9	[ ]	[ ]	[-.-]	-.-	-.-	-.-
10	[ ]	[ ]	[-.-]	-.-	-.-	-.-

ENTERED MAR 03 1997 J B 4

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [.]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

EMPLOYER BRE DATE 01/04/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	— — . —	— — . —	— — . —	7.6
	36	— — . —	— — . —	— — . —	7.7
	72	— — . —	— — . —	— — . —	7.3
	108	— — . —	— — . —	— — . —	7.0
	144	— — . —	— — . —	— — . —	7.2
0+00	0	— — . —	— — . —	— — . —	7.2
	36	— — . —	— — . —	— — . —	7.6
	72	— — . —	— — . —	— — . —	7.3
	108	— — . —	— — . —	— — . —	7.3
	144	— — . —	— — . —	— — . —	7.4
0+50	0	— — . —	— — . —	— — . —	7.9
	36	— — . —	— — . —	— — . —	8.4
	72	— — . —	— — . —	— — . —	8.3
	108	— — . —	— — . —	— — . —	7.8
	144	— — . —	— — . —	— — . —	7.8
1+00	0	— — . —	— — . —	— — . —	7.4
	36	— — . —	— — . —	— — . —	7.4
	72	— — . —	— — . —	— — . —	7.4
	108	— — . —	— — . —	— — . —	7.4
	144	— — . —	— — . —	— — . —	7.3
1+50	0	— — . —	— — . —	— — . —	7.8
	36	— — . —	— — . —	— — . —	7.9
	72	— — . —	— — . —	— — . —	7.7
	108	— — . —	— — . —	— — . —	7.6
	144	— — . —	— — . —	— — . —	7.7
2+00	0	— — . —	— — . —	— — . —	7.9
	36	— — . —	— — . —	— — . —	7.8
	72	— — . —	— — . —	— — . —	7.8
	108	— — . —	— — . —	— — . —	8.0
	144	— — . —	— — . —	— — . —	7.8
2+50	0	— — . —	— — . —	— — . —	7.3
	36	— — . —	— — . —	— — . —	7.7
	72	— — . —	— — . —	— — . —	7.4
	108	— — . —	— — . —	— — . —	7.3
	144	— — . —	— — . —	— — . —	7.0
LAYER NUMBER[1]		— —	— —	— —	— —

[1] from Construction Data Sheet 4

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SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0				7.2
	36				7.3
	72				7.8
	108				7.4
	144				7.1
3+50	0				7.4
	36				7.8
	72				7.8
	108				7.4
	144				7.2
4+00	0				7.9
	36				8.0
	72				7.9
	108				7.8
	144				8.0
4+50	0				8.5
	36				8.4
	72				8.6
	108				8.2
	144				8.2
5+00	0				8.0
	36				8.4
	72				8.2
	108				7.9
	144				7.8
5+50	0				8.6
	36				8.5
	72				8.3
	108				7.9
	144				7.8
+					
LAYER NUMBER[1]					

[1] from Construction Data Sheet 4

ENTERED MAR 03 1997 J B

PREPARER [illegible] EMPLOYER BRE DATE 01/05/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [05] * SPS PROJECT CODE [0904] * TEST SECTION NO. [04]

ENTERED MAR 03 1997 J B

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory -Steel Wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[ ]	[N/A]
*6. STABILIZING AGENT 2	[ ]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

PREPARER EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

ENTERED MAR 03 1997 J B4

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingersoll

*5. GROSS WEIGHT (Tons) [2.0]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) _____

Took out 4" of old stone base, replaced w/ recycled then followed w/ 4" lift @ 2 time

PREPARER LP EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 2] * TEST SECTION NO. [0 2]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.25]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER AHPLP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3"..... [2.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARED LP EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

NA

JPC

PREPARER [illegible] EMPLOYER BRE DATE 01/09/96

900 PSI February 1992

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds) ..... [1 8 4 2.]

*3. Fine Aggregate (Pounds) ..... [_ 9 2 4.]

*4. Cement (Pounds) ..... [_ 7 1 9.]

*5. Water (Pounds) ..... [_ 2 7 1.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE I [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8. ADMIXTURE #1 TYPE C FLY ASH	[1 1]	127 LBS.	[_ 1 5.0]
*9. ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	11 OZ. PER CU. YD.	[_ _ 0.1]
*10. ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 OZ. PER CU. YD.	[_ _ 0.4]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

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SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel..... 3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. PEACOCK EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 3] * TEST SECTION NO. [0 2]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-2 1-9 5]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [1 0-2 1-9 5]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON - Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [24.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

EMPLOYER RPE DATE 7/29/92

February 1992

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [02]

ENTERED MAR 03 1997 J B

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1 Burlap-Polyethylene Blanket... 5
   Burlap Curing Blankets..... 2 Cotton Mat Curing..... 6
   Waterproof Paper Blankets..... 3 Hay..... 7
   White Polyethylene Sheeting... 4
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1 Grooved Float..... 4
   Broom..... 2 Astro Turf..... 5
   Burlap Drag..... 3 None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

EMPLOYER BPE DATE 6/10/96

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [0 1]

1. DATE PROFILE MEASURED (Month-Day-Year) [0 7 - 0 9 - 9 6]
2. PROFILOGRAPH TYPE California... 1 Rainhart... 2 Cox + McLaughlin [1]
3. PROFILE INDEX (Inches/Mile) [0.9]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.2 0]
6. CUTOFF HEIGHT (Inches) [0.3 0]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 1 - 2 0 - 9 5]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 2 2 - 9 6]
*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec
12. AVERAGE DEPTH OF CUT (Inches) [_ . _ _]
13. CUTTING HEAD WIDTH (Inches) [_ _ _ . _ _]
14. AVERAGE GROOVE WIDTH (Inches) [_ . _]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [_ . _]

ENTERED MAR 03 1997 J B

Post-it® Fax Note 7671

To Boon Thai	Date 12/19/96	# of pages ▶ 1
Co./Dept	From Amy Simpson	
Phone #	Co	
Fax #	Phone #	
	Fax #	

PREPARED [signature] EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 4] * TEST SECTION NO. [0 2]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARED _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

		INSIDE SHOULDER	OUTSIDE SHOULDER
* 1.	LANE WIDTH (Feet)		[1 2.]
2.	MONITORING SITE LANE NUMBER (LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER LANE 2 IS NEXT TO LANE 1, ETC.)		[1.]
	SHOULDER DATA		
* 3.	SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4.	TOTAL SHOULDER WIDTH (Feet)	[_ 6.]	[1 0.]
* 5.	PAVED SHOULDER WIDTH (Feet)	[_ 4.]	[1 0.]
6.	SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7.	SHOULDER SURFACE THICKNESS (Inches)	[_ 1. 5]	[_ 1. 5]
8.	SHOULDER BASE THICKNESS (Inches)	[_ 9. 5]	[_ 9. 5]
* 9.	SUBSURFACE DRAINAGE TYPE No Subsurface Drainage... 1 Longitudinal Drains... 2 Transverse Drains... 3 Drainage Blanket... 4 Well System... 5 Drainage Blanket with Longitudinal Drains... 6 Other (Specify)... 7 _____		[4.]
*10.	SUBSURFACE DRAINAGE LOCATION Continuous Along Test Section... 1 Intermittent... 2		[1.]
11.	DIAMETER OF LONGITUDINAL DRAINPIPES (Inches)		[~~_ 4.0~~]
12.	SPACING OF LATERALS (Feet)	ZWD. 3/5/97	[~~3 0 0.~~]

ENTERED FEB 28 1997 J B

PREPARER [signature] EMPLOYER BRE DATE 02/19/96

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 5]	[2 3]	[two 6.0]	_ _ _._	_ _ _._	_ _ _._
3	[0 3]	[0 4]	[10.8]	9.5	12.9	0.5
4	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
5	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
6	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
7	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
8	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
9	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
10	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._

ENTERED 3 2 8 1997 J B

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [_ _ . _]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

PREPARED [signature] EMPLOYER BRE DATE 01/04/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 2] * TEST SECTION NO. [0 3]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-5 0	0	__ __ . __	__ __ . __	__ __ . __	11.6
	36	__ __ . __	__ __ . __	__ __ . __	11.8
	72	__ __ . __	__ __ . __	__ __ . __	11.0
	108	__ __ . __	__ __ . __	__ __ . __	10.9
	144	__ __ . __	__ __ . __	__ __ . __	10.9
0+0 0	0	__ __ . __	__ __ . __	__ __ . __	10.6
	36	__ __ . __	__ __ . __	__ __ . __	10.8
	72	__ __ . __	__ __ . __	__ __ . __	10.7
	108	__ __ . __	__ __ . __	__ __ . __	10.5
	144	__ __ . __	__ __ . __	__ __ . __	10.4
0+5 0	0	__ __ . __	__ __ . __	__ __ . __	10.5
	36	__ __ . __	__ __ . __	__ __ . __	10.9
	72	__ __ . __	__ __ . __	__ __ . __	10.6
	108	__ __ . __	__ __ . __	__ __ . __	10.5
	144	__ __ . __	__ __ . __	__ __ . __	10.9
1+0 0	0	__ __ . __	__ __ . __	__ __ . __	10.8
	36	__ __ . __	__ __ . __	__ __ . __	10.9
	72	__ __ . __	__ __ . __	__ __ . __	10.7
	108	__ __ . __	__ __ . __	__ __ . __	10.1
	144	__ __ . __	__ __ . __	__ __ . __	10.6
1+5 0	0	__ __ . __	__ __ . __	__ __ . __	10.5
	36	__ __ . __	__ __ . __	__ __ . __	10.7
	72	__ __ . __	__ __ . __	__ __ . __	10.6
	108	__ __ . __	__ __ . __	__ __ . __	10.8
	144	__ __ . __	__ __ . __	__ __ . __	10.6
2+0 0	0	__ __ . __	__ __ . __	__ __ . __	__9.5
	36	__ __ . __	__ __ . __	__ __ . __	10.8
	72	__ __ . __	__ __ . __	__ __ . __	10.6
	108	__ __ . __	__ __ . __	__ __ . __	10.3
	144	__ __ . __	__ __ . __	__ __ . __	10.3
2+5 0	0	__ __ . __	__ __ . __	__ __ . __	11.3
	36	__ __ . __	__ __ . __	__ __ . __	11.9
	72	__ __ . __	__ __ . __	__ __ . __	11.2
	108	__ __ . __	__ __ . __	__ __ . __	11.2
	144	__ __ . __	__ __ . __	__ __ . __	11.0
LAYER NUMBER[1]		__ __	__ __	__ __	0 3

[1] from Construction Data Sheet 4

ENTERED 3 2 8 1997 J B1

PREPARER [signature] EMPLOYER BRE DATE 01/05/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 2] * TEST SECTION NO. [0 3]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0				10.4
	36				11.4
	72				11.3
	108				10.9
	144				10.7
3+50	0				10.4
	36				11.5
	72				11.4
	108				11.3
	144				11.0
4-00	0				10.9
	36				11.1
	72				10.7
	108				10.8
	144				10.9
4-50	0				10.1
	36				11.0
	72				10.7
	108				10.6
	144				12.9
5+00	0				10.6
	36				11.0
	72				10.8
	108				10.6
	144				10.5
5-50	0				10.6
	36				11.1
	72				10.8
	108				10.7
	144				10.5
— — —	— — —				
	— — —				
	— — —				
	— — —				
	— — —				
LAYER NUMBER[1]					

[1] from Construction Data Sheet 4

ENTERED FEB 28 1997 J B

PREPARER [illegible] EMPLOYER BRE DATE 01/05/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 9] * TEST SECTION NO. [0 3]

ENTERED FEB 28 1997 J B

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory -Steel Wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[__]	[N/A]
*6. STABILIZING AGENT 2	[__]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

EMPLOYER BRE DATE 01/25/96

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

ENTERED MAR 0 3 1997 J B

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingram

*5. GROSS WEIGHT (Tons) [20]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) _____

Took out 4" of old stone base replaced w/ recycled then followed w/ 4" lift @ 2 time

PREPARER [illegible] EMPLOYER BRE DATE 01/05/95

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.50]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base, Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

ENTERED MAR 03 1997 J B 1

PREPARER JhPeare EMPLOYER BRE DATE 01/05/92

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
- Sawed..... 1 Metal Insert.....3
- Plastic Insert..... 2
- Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
- Butt..... 1 Insert Weakened Plane..... 3
- Sawed Weakened Plane..... 2
- Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
- Butt..... 1 Insert Weakened Plane..... 3
- Sawed Weakened Plane..... 2
- Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3."..... [3.67]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12 .] <12

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
- Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
- Asphalt..... 2 Low-Modulus Silicone..... 4
- Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER [illegible] EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
- Deformed Bars..... 1
- Welded Wire Fabric..... 2
- Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __ __]

10. METHOD USED TO PLACE REINFORCEMENT [__]
- Preset on Chairs..... 1
- Mechanically..... 2
- Between Layers of Concrete..... 3
- Other (Specify)_____ 4

N/A

JPC

PREPARER JP _____ EMPLOYER BRE DATE 01/20/01

February 1992

550 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 9 7 0.]

*3. Fine Aggregate (Pounds)..... [1 3 3 3.]

*4. Cement (Pounds)..... [_ 3 3 0.]

*5. Water (Pounds)..... [_ 2 1 2.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE 1 [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ENTERED MAR 0 3 1997 J B1

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8. ADMIXTURE #1 TYPE C FLY ASH	[1 1]	58 LBS.	[_ 1 5.0]
*9. ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	4.4 oz. PER CU.YD.	[_ _ 0.1]
*10. ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 oz. PER CU YD.	[_ _ 0.3]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify) _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel..... 3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Pearce EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-23-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [1 0-23-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON - Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [24.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

EMPLOYED BRE DATE 01/09/95

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [03]

ENTERED MAR 03 1997 J B

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1
   Burlap Curing Blankets..... 2
   Waterproof Paper Blankets..... 3
   White Polyethylene Sheeting... 4
   Burlap-Polyethylene Blanket... 5
   Cotton Mat Curing..... 6
   Hay..... 7
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1
   Broom..... 2
   Burlap Drag..... 3
   Grooved Float..... 4
   Astro Turf..... 5
   None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [05] * SPS PROJECT CODE [07] * TEST SECTION NO. [03]

1. DATE PROFILE MEASURED (Month-Day-Year) [07-09-96]
2. PROFILOGRAPH TYPE California... 1 Rainhart... 2 Cox + McLaughlin [1]
3. PROFILE INDEX (Inches/Mile) [1.8]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.20]
6. CUTOFF HEIGHT (Inches) [0.30]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

   IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [11-20-95]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [01-22-96]

*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec

12. AVERAGE DEPTH OF CUT (Inches) [__.__]
13. CUTTING HEAD WIDTH (Inches) [___.__]
14. AVERAGE GROOVE WIDTH (Inches) [__.__]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [__.__]

ENTERED MAR 03 1997 J B

Post-it® Fax Note 7671

To Boon Thian	Date 12/19/96	# of pages ▸ 1
Co./Dept	From Amy Simpson	
Phone #	Co	
Fax #	Phone #	
	Fax #	

COMPILED [signature] EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 3]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

* 1. LANE WIDTH (Feet) [1 4.]

2. MONITORING SITE LANE NUMBER [1.]
(LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER
LANE 2 IS NEXT TO LANE 1, ETC.)

SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3. SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4. TOTAL SHOULDER WIDTH (Feet)	[4.]	[8.]
* 5. PAVED SHOULDER WIDTH (Feet)	[2.]	[8.]
6. SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7. SHOULDER SURFACE THICKNESS (Inches)	[1. 5]	[1. 5]
8. SHOULDER BASE THICKNESS (Inches)	[9. 5]	[9. 5]

* 9. SUBSURFACE DRAINAGE TYPE [4.]
No Subsurface Drainage... 1 Longitudinal Drains... 2
Transverse Drains... 3 Drainage Blanket... 4 Well System... 5
Drainage Blanket with Longitudinal Drains... 6
Other (Specify)... 7 _____

*10. SUBSURFACE DRAINAGE LOCATION [1.]
Continuous Along Test Section... 1 Intermittent... 2

11. DIAMETER OF LONGITUDINAL DRAINPIPES (Inches) [~~4.0~~]

12. SPACING OF LATERALS (Feet) 3/5/97 [~~3 0 0.~~]

ENTERED MAR 03 1997 J. B.

PREPARER [signature] EMPLOYER BRE DATE 02/16/96

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 5]	[2 3]	[2.4D 6.0]	- - -.-	- - -.-	- - -.-
3	[0 3]	[0 4]	[1 0.4]	9.5	1 1.3	0.4
4	[ ]	[ ]	[- - -.-]	- - -.-	- - -.-	- - -.-
5	[ ]	[ ]	[- - -.-]	- - -.-	- - -.-	- - -.-
6	[ ]	[ ]	[- - -.-]	- - -.-	- - -.-	- - -.-
7	[ ]	[ ]	[- - -.-]	- - -.-	- - -.-	- - -.-
8	[ ]	[ ]	[- - -.-]	- - -.-	- - -.-	- - -.-
9	[ ]	[ ]	[- - -.-]	- - -.-	- - -.-	- - -.-
10	[ ]	[ ]	[- - -.-]	- - -.-	- - -.-	- - -.-

ENTERED MAR 03 1997 J B

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [.]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

EMPLOYER BRE DATE 01/04/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [04]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0				9.8
	36				9.6
	72				9.7
	108				9.7
	144				9.7
0+00	0				9.5
	36				9.8
	72				10.0
	108				9.8
	144				9.6
0+50	0				10.6
	36				10.3
	72				10.7
	108				10.6
	144				10.2
1+00	0				10.7
	36				10.6
	72				10.9
	108				10.6
	144				10.9
1+50	0				10.4
	36				10.6
	72				10.7
	108				10.6
	144				10.8
2+00	0				10.9
	36				10.9
	72				10.7
	108				10.4
	144				10.3
2+50	0				11.3
	36				10.9
	72				10.7
	108				10.4
	144				10.9
LAYER NUMBER[1]					

[1] from Construction Data Sheet 4

ENTERED MAR 03 1997 J B

PREPARER [illegible] EMPLOYER BRE DATE 01/05/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [05] * SPS PROJECT CODE [00] * TEST SECTION NO. [04]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0				10.9
	36				10.7
	72				10.8
	108				10.7
	144				10.7
3+50	0				10.1
	36				10.2
	72				10.2
	108				10.2
	144				10.3
4+00	0				10.3
	36				10.2
	72				10.3
	108				10.3
	144				10.2
4+50	0				11.0
	36				10.7
	72				10.6
	108				10.6
	144				10.8
5+00	0				10.4
	36				10.3
	72				10.3
	108				10.2
	144				10.4
5+50	0				10.7
	36				10.6
	72				10.6
	108				10.6
	144				10.2
— + —					
LAYER NUMBER[1]					

[1] from Construction Data Sheet 4

PREPARER J.A. Peacock EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B1

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 9] * TEST SECTION NO. [0 4]

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory -Steel wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[__]	[N/A]
*6. STABILIZING AGENT 2	[__]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

PREPARER [illegible] EMPLOYER BRE DATE [illegible]

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

PREPARED EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [05] * SPS PROJECT CODE [06] * TEST SECTION NO. [04]

ENTERED MAR 03 1997 J B

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingram

*5. GROSS WEIGHT (Tons) [20]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.)

Took out 4" of old stone base, replaced w/ recycled then followed w/ 4" lift @ 2 time

PREPARER JIP LP EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.50]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base, Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER dhl WP EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [04]

ENTERED MAR 03 1997 J B1

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3"..... [3.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER MPLP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

NA

JPC

PREPARER WD LP EMPLOYER BRE DATE 01/08/96

900 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 8 4 2.]

*3. Fine Aggregate (Pounds)..... [_ 9 2 4.]

*4. Cement (Pounds)..... [_ 7 1 9.]

*5. Water (Pounds)..... [_ 2 7 1.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE I [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8. ADMIXTURE #1 TYPE C FLY ASH	[1 1]	127 LBS.	[_ 1 5.0]
*9. ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	11 OZ. PER CU.YD.	[_ _ 0.1]
*10. ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 OZ. PER CU.YD.	[_ _ 0.4]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify) _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

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SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel.....3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 7-9-5]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [1 0-1 7-9 5]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON - Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

PREPARED _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [05] * SPS PROJECT CODE [03] * TEST SECTION NO. [04]

ENTERED MAR 03 1997 J B

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1
   Burlap Curing Blankets..... 2
   Waterproof Paper Blankets..... 3
   White Polyethylene Sheeting... 4
   Burlap-Polyethylene Blanket... 5
   Cotton Mat Curing..... 6
   Hay..... 7
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1
   Broom..... 2
   Burlap Drag..... 3
   Grooved Float..... 4
   Astro Turf..... 5
   None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

PREPARED MP LP EMPLOYER BRE DATE 01/22/96

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

1. DATE PROFILE MEASURED (Month-Day-Year) [0 7 - 0 9 - 9 6]
2. PROFILOGRAPH TYPE California... 1 Rainhart... 2 Cox + McLaukin [1]
3. PROFILE INDEX (Inches/Mile) [4.0]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.2 0]
6. CUTOFF HEIGHT (Inches) [0.3 0]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

   IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 1 - 2 0 - 9 5]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 2 2 - 9 6]
11. REASON FOR GRINDING [6]
    Elimination of Faulting... 1 Elimination of Slab Warping... 2
    Improve Skid Resistance... 3
    Restoration of Transverse Drainage Slope... 4
    Correction of Construction Deficiencies...5
    Other (Specify)... 6 To meet profile spec
12. AVERAGE DEPTH OF CUT (Inches) [_ . _ _]
13. CUTTING HEAD WIDTH (Inches) [_ _ _ . _ _]
14. AVERAGE GROOVE WIDTH (Inches) [_ . _]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [_ . _]

ENTERED MAR 03 1997 J B

Post-it® Fax Note 7671

To Boon Thian	Date 12/19/96 # of pages ▶ 1
Co./Dept.	From Amy Simpson
Phone #	Co
Fax #	Phone #
	Fax #

PREPARER [signature] EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

ENTERED MAR 03 1997 J B

		INSIDE SHOULDER	OUTSIDE SHOULDER
* 1.	LANE WIDTH (Feet)		[1 4.]
2.	MONITORING SITE LANE NUMBER (LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER LANE 2 IS NEXT TO LANE 1, ETC.)		[1.]
	SHOULDER DATA		
* 3.	SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4.	TOTAL SHOULDER WIDTH (Feet)	[_4.]	[_8.]
* 5.	PAVED SHOULDER WIDTH (Feet)	[_2.]	[_8.]
6.	SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7.	SHOULDER SURFACE THICKNESS (Inches)	[_1. 5]	[_1. 5]
8.	SHOULDER BASE THICKNESS (Inches)	[_9. 5]	[_9. 5]
* 9.	SUBSURFACE DRAINAGE TYPE No Subsurface Drainage... 1 Longitudinal Drains... 2 Transverse Drains... 3 Drainage Blanket... 4 Well System... 5 Drainage Blanket with Longitudinal Drains... 6 Other (Specify)... 7 _____		[4.]
*10.	SUBSURFACE DRAINAGE LOCATION Continuous Along Test Section... 1 Intermittent... 2		[1.]
11.	DIAMETER OF LONGITUDINAL DRAINPIPES (Inches)		[~~_4.0~~]
12.	SPACING OF LATERALS (Feet)	ZNP. 3/5/97	[300.]

---- --- [signature] ENTERED RRE DATE 02/19/96

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]				
2	[0 5]	[3 8]	[6.1]	5.0	7.2	0.5
3	[0 3]	[0 4]	[7.2]	6.6	7.7	0.3
4	[ ]	[ ]	[.]	.	.	.
5	[ ]	[ ]	[.]	.	.	.
6	[ ]	[ ]	[.]	.	.	.
7	[ ]	[ ]	[.]	.	.	.
8	[ ]	[ ]	[.]	.	.	.
9	[ ]	[ ]	[.]	.	.	.
10	[ ]	[ ]	[.]	.	.	.

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [.]
(Rock, Stone, Dense Shale)

ENTERED MAR 03 1997 J B.

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 2] * TEST SECTION NO. [0 0 5]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES) DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	___.___	___.___	5.4	7.3
	36	___.___	___.___	5.8	7.2
	72	___.___	___.___	5.6	7.3
	108	___.___	___.___	5.4	7.3
	144	___.___	___.___	5.2	7.2
0+00	0	___.___	___.___	5.5	7.1
	36	___.___	___.___	6.0	6.8
	72	___.___	___.___	6.1	6.6
	108	___.___	___.___	6.0	6.8
	144	___.___	___.___	6.0	6.6
0+50	0	___.___	___.___	6.1	7.6
	36	___.___	___.___	6.1	7.6
	72	___.___	___.___	6.2	7.3
	108	___.___	___.___	6.0	7.2
	144	___.___	___.___	5.4	7.4
1+00	0	___.___	___.___	5.9	7.3
	36	___.___	___.___	5.9	7.2
	72	___.___	___.___	5.9	7.1
	108	___.___	___.___	5.6	7.3
	144	___.___	___.___	5.9	7.1
1+50	0	___.___	___.___	5.8	7.6
	36	___.___	___.___	5.9	7.4
	72	___.___	___.___	6.0	7.2
	108	___.___	___.___	5.8	7.3
	144	___.___	___.___	6.0	7.0
2+00	0	___.___	___.___	5.9	7.7
	36	___.___	___.___	5.8	7.6
	72	___.___	___.___	5.8	7.2
	108	___.___	___.___	6.0	7.1
	144	___.___	___.___	6.0	7.1
2+50	0	___.___	___.___	5.0	7.2
	36	___.___	___.___	5.0	7.4
	72	___.___	___.___	5.3	7.2
	108	___.___	___.___	5.4	7.0
	144	___.___	___.___	5.6	7.0
LAYER NUMBER[1]		___ ___	___ ___	0 2	0 3

[1] from Construction Data Sheet 4

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PREPARER [signature] EMPLOYER BRE DATE 01/05/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES) DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0			6.6	7.4
	36			6.7	7.3
	72			6.6	7.2
	108			6.6	7.0
	144			6.5	7.1
3+50	0			6.6	7.6
	36			6.4	7.4
	72			7.1	6.6
	108			6.5	7.2
	144			6.5	7.0
4+00	0			6.7	7.7
	36			6.5	7.3
	72			6.7	7.1
	108			6.6	7.0
	144			6.4	7.1
4+50	0			7.0	7.4
	36			6.8	7.3
	72			6.8	7.1
	108			6.7	7.0
	144			6.5	7.2
5+00	0			6.5	7.4
	36			6.5	7.6
	72			6.5	7.4
	108			6.2	7.4
	144			6.2	7.6
5+50	0			7.2	7.3
	36			6.8	7.7
	72			6.7	7.3
	108			6.6	7.3
	144			6.4	7.3
+__					
LAYER NUMBER[1]				02	03

[1] from Construction Data Sheet 4

PREPARER J. Pollock EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B

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SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 9] * TEST SECTION NO. [0 5]

ENTERED MAR 03 1997 J B.

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory -Steel wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[ ]	[N/A]
*6. STABILIZING AGENT 2	[ ]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

February 1992

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

February 1992

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [0 5]

February 1992

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.25]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base, spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER A.P. LP EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3"..... [2.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12]

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

RDF DATE 01/08/92

February 1992

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

N/A

JPC

February 1992

550 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds) ..... [1 9 7 0.]

*3. Fine Aggregate (Pounds) ..... [1 3 3 3.]

*4. Cement (Pounds) ..... [_ 3 3 0]

*5. Water (Pounds) ..... [_ 2 1 2.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE 1 [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8.	ADMIXTURE #1 TYPE C FLY ASH [1 1]	58 LBS.	[_ 1 5.0]
*9.	ADMIXTURE #2 AIR-ENTRAINMENT [0 8]	4.4 oz. PER CU.YD.	[_ _ 0.1]
*10.	ADMIXTURE #3 WATER REDUCING [0 1]	15.5 oz. PER CU.YD.	[_ _ 0.3]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

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SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel..... 3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARED [illegible] EMPLOYER RRE DATE 01/08/96

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SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9 5]

ENTERED MAR 03 1997 J B !

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 8-9 5]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [1 0-1 8-9 5]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [20]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

ENTERED MAR 0 3 1997 J B

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1
   Burlap Curing Blankets..... 2
   Waterproof Paper Blankets..... 3
   White Polyethylene Sheeting... 4
   Burlap-Polyethylene Blanket... 5
   Cotton Mat Curing..... 6
   Hay..... 7
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1
   Broom..... 2
   Burlap Drag..... 3
   Grooved Float..... 4
   Astro Turf..... 5
   None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

1. DATE PROFILE MEASURED (Month-Day-Year) [0 7 - 0 9 - 9 6]
2. PROFILOGRAPH TYPE California... 1 Rainhart... 2 Cox + McLaughlin [1]
3. PROFILE INDEX (Inches/Mile) [5.7]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.2 0]
6. CUTOFF HEIGHT (Inches) [0.3 0]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

   IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 1 - 2 0 - 9 5]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 2 2 - 9 6]

*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec

12. AVERAGE DEPTH OF CUT (Inches) [_ . _ _]
13. CUTTING HEAD WIDTH (Inches) [_ _ _ . _ _]
14. AVERAGE GROOVE WIDTH (Inches) [_ . _]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [_ . _]

ENTERED MAR 0 3 1997 J B

Post-it® Fax Note 7671

To Boon Thian	Date 12/19/96 # of pages ▶ 1
Co./Dept.	From Amy Simpson
Phone #	Co
Fax #	Phone #
	Fax #

N/A

SPS-2 CONSTRUCTION DATA SHEET 24 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

1. SECURING LOAD TRANSFER DEVICES [__]
   None... 1 Grout Filler... 2 Epoxy filler...3
   Other... 4 _____

2. REINFORCING STEEL PLACED IN PATCH [__]
   No... 1 Yes... 2

	Temperature Steel Transverse	Temperature Steel Longitudinal	Dowel Bars	Tie Bars
3. REBAR NUMBER DESIGNATION	[__ __]	[__ __]	[__ __]	[__ __]
4. BAR LENGTHS, Inches	[__ __ .__]	[__ __ .__]	[__ __ .__]	[__ __ .__]
5. BAR SPACING, Inches	[__ __ .__]	[__ __ .__]	[__ __ .__]	[__ __ .__]

6. DOWEL COATINGS [__]
   None... 1 Paint and/or Grease... 2 Plastic... 3
   Monel... 4 Stainless Steel... 5 Epoxy.... 6
   Other (Specify)... 7 _____

. NUMBER OF SAW CUTS PER PATCH (If Sawed) [__ __]

8. DEPTH OF TYPICAL BOUNDARY SAW CUT, Inches [__ __ .__]

9. CONCRETE BREAKUP [__]
   None... 1 Pneumatic Air Hammer... 2 Gravity Drop Hammer... 3
   Sawing... 4
   Other (Specify)... 5 _____

10. REMOVAL OF CONCRETE [__]
    Concrete Breakup and Cleanout... 1 Lift Out Intact Slab Section... 2
    Other (Specify)... 3 _____

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 5]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	[0 5] [0 2] [0 6]

* 1. LANE WIDTH (Feet) [1 2.]

2. MONITORING SITE LANE NUMBER [1.]
(LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER
LANE 2 IS NEXT TO LANE 1, ETC.)

SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3. SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4. TOTAL SHOULDER WIDTH (Feet)	[6.]	[1 0.]
* 5. PAVED SHOULDER WIDTH (Feet)	[4.]	[1 0.]
6. SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7. SHOULDER SURFACE THICKNESS (Inches)	[1. 5]	[1. 5]
8. SHOULDER BASE THICKNESS (Inches)	[9. 5]	[9. 5]

* 9. SUBSURFACE DRAINAGE TYPE [4.]
No Subsurface Drainage... 1 Longitudinal Drains... 2
Transverse Drains... 3 Drainage Blanket... 4 Well System... 5
Drainage Blanket with Longitudinal Drains... 6
Other (Specify)... 7 _____

*10. SUBSURFACE DRAINAGE LOCATION [1.]
Continuous Along Test Section... 1 Intermittent... 2

11. DIAMETER OF LONGITUDINAL DRAINPIPES (Inches) [~~4.0~~]

12. SPACING OF LATERALS (Feet) ZWD 3/5/97 [~~300.~~]

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PREPARER APeacock EMPLOYER BRE DATE 02/19/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 5]	[3 8]	[_ _6.3]	_ _5.5	_ _7.4	_ _0.4
3	[0 3]	[0 4]	[_ _7.8]	_ _7.4	_ _8.3	_ _0.2
4	[_ _]	[_ _]	[_ _._]	_ _._	_ _._	_ _._
5	[_ _]	[_ _]	[_ _._]	_ _._	_ _._	_ _._
6	[_ _]	[_ _]	[_ _._]	_ _._	_ _._	_ _._
7	[_ _]	[_ _]	[_ _._]	_ _._	_ _._	_ _._
8	[_ _]	[_ _]	[_ _._]	_ _._	_ _._	_ _._
9	[_ _]	[_ _]	[_ _._]	_ _._	_ _._	_ _._
10	[_ _]	[_ _]	[_ _._]	_ _._	_ _._	_ _._

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [_ _ . _]
(Rock, Stone, Dense Shale)

ENTERED MAR 03 1997 J B4

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 N] * TEST SECTION NO. [0 0 6]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES) DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	— — . —	— — . —	6.2	7.7
	36	— — . —	— — . —	6.4	7.9
	72	— — . —	— — . —	6.5	7.7
	108	— — . —	— — . —	6.4	7.6
	144	— — . —	— — . —	6.5	7.7
0+00	0	— — . —	— — . —	7.0	7.7
	36	— — . —	— — . —	7.0	7.9
	72	— — . —	— — . —	7.3	7.7
	108	— — . —	— — . —	7.4	7.6
	144	— — . —	— — . —	6.8	7.6
0+50	0	— — . —	— — . —	6.1	7.9
	36	— — . —	— — . —	6.2	7.7
	72	— — . —	— — . —	6.5	7.6
	108	— — . —	— — . —	6.4	7.6
	144	— — . —	— — . —	6.0	7.4
1+00	0	— — . —	— — . —	6.2	7.8
	36	— — . —	— — . —	6.4	7.8
	72	— — . —	— — . —	6.2	7.9
	108	— — . —	— — . —	6.5	7.7
	144	— — . —	— — . —	6.6	7.6
1+50	0	— — . —	— — . —	5.5	7.6
	36	— — . —	— — . —	5.5	7.8
	72	— — . —	— — . —	5.8	7.7
	108	— — . —	— — . —	5.8	7.7
	144	— — . —	— — . —	5.6	7.6
2+00	0	— — . —	— — . —	6.2	7.6
	36	— — . —	— — . —	6.1	7.8
	72	— — . —	— — . —	6.2	7.7
	108	— — . —	— — . —	6.4	7.6
	144	— — . —	— — . —	6.2	7.4
2+50	0	— — . —	— — . —	6.1	7.8
	36	— — . —	— — . —	6.4	7.8
	72	— — . —	— — . —	6.4	7.8
	108	— — . —	— — . —	6.2	7.7
	144	— — . —	— — . —	5.9	7.6
LAYER NUMBER[1]		— —	— —	02	03

[1] from Construction Data Sheet 4

PREPARER [signature] EMPLOYER BRE DATE 01/05/96

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SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0			6.4	8.2
	36			6.4	8.2
	72			6.7	8.0
	108			6.7	8.0
	144			6.5	7.9
3-50	0			6.2	8.2
	36			6.5	7.9
	72			6.0	7.9
	108			6.5	7.9
	144			6.5	7.8
4+00	0			6.2	8.0
	36			6.1	7.8
	72			6.2	7.8
	108			5.9	7.7
	144			5.9	7.6
4-50	0			6.0	8.0
	36			6.1	8.2
	72			5.9	8.0
	108			6.2	7.9
	144			6.1	7.9
5+00	0			6.1	8.2
	36			6.5	8.2
	72			6.2	8.0
	108			5.9	8.0
	144			5.9	8.0
5-50	0			5.6	8.3
	36			6.0	8.3
	72			6.1	8.0
	108			6.1	8.0
	144			6.6	8.0
___+___					
LAYER NUMBER[1]				02	03

[1] from Construction Data Sheet 4

PREPARER A. Peacock EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B1

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 0] * TEST SECTION NO. [0 6]

ENTERED MAR 03 1997 J B

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory - Steel Wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[__]	[N/A]
*6. STABILIZING AGENT 2	[__]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

February 1992

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [0 6]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [6 2] * TEST SECTION NO. [0 6]

EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.25]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER HP LP EMPLOYER BRE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
   Sawed..... 1 Metal Insert.....3
   Plastic Insert..... 2
   Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
   Butt..... 1 Insert Weakened Plane..... 3
   Sawed Weakened Plane..... 2
   Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
   Butt..... 1 Insert Weakened Plane..... 3
   Sawed Weakened Plane..... 2
   Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3." [2.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12]

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
   Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
   Asphalt..... 2 Low-Modulus Silicone..... 4
   Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER MC LP EMPLOYER BRE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

NA

JPC

PREPARER JLP LP EMPLOYER BPE DATE 01/08/96

900 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds) ..... [1 8 4 2.]

*3. Fine Aggregate (Pounds) ..... [_ 9 2 4.]

*4. Cement (Pounds) ..... [_ 7 1 9.]

*5. Water (Pounds) ..... [_ 2 7 1.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE I [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _.]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8. ADMIXTURE #1 TYPE C FLY ASH	[1 1]	127 LBS.	[_ 1 5.0]
*9. ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	11 oz. PER CU. YD.	[_ _ 0.1]
*10. ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 oz. PER CU. YD.	[_ _ 0.4]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify) _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

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SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel..... 3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

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SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [10-20-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [10-20-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON - Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

EMPLOYER BRE DATE 01/02/96

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [05] * SPS PROJECT CODE [03] * TEST SECTION NO. [06]

ENTERED MAR 03 1997 J B

1. CONSOLIDATION OF MATERIALS [1]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Troweling

3. CURING [1]
   Membrane Curing Compound..... 1
   Burlap Curing Blankets..... 2
   Waterproof Paper Blankets..... 3
   White Polyethylene Sheeting... 4
   Burlap-Polyethylene Blanket... 5
   Cotton Mat Curing..... 6
   Hay..... 7
   Other (Specify)_____ 8

4. TEXTURING [1]
   Tine..... 1
   Broom..... 2
   Burlap Drag..... 3
   Grooved Float..... 4
   Astro Turf..... 5
   None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

PREPARER MIP EMPLOYER BRE DATE 01/03/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [0 6]

1. DATE PROFILE MEASURED (Month-Day-Year) [0 7 - 0 9 - 9 6]
2. PROFILOGRAPH TYPE Cox + McLaughlin California... 1 Rainhart... 2 [1]
3. PROFILE INDEX (Inches/Mile) [2.2]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.2 0]
6. CUTOFF HEIGHT (Inches) [0.3 0]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 1 - 2 0 - 9 5]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 2 2 - 9 6]

*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec

12. AVERAGE DEPTH OF CUT (Inches) [_ . _ _]
13. CUTTING HEAD WIDTH (Inches) [_ _ _ . _ _]
14. AVERAGE GROOVE WIDTH (Inches) [_ . _]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [_ . _]

ENTERED MAR 03 1997 J B

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To Boon Thian	Date 12/19/96	# of pages ▶ 1
Co./Dept.	From Amy Simpson	
Phone #	Co.	
Fax #	Phone #	
	Fax #	

PREPARER Tom W. Dunnan EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 24 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

1. SECURING LOAD TRANSFER DEVICES [__]
   None... 1 Grout Filler... 2 Epoxy filler...3
   Other... 4 _____

2. REINFORCING STEEL PLACED IN PATCH [__]
   No... 1 Yes... 2

	Temperature Steel Transverse	Temperature Steel Longitudinal	Dowel Bars	Tie Bars
3. REBAR NUMBER DESIGNATION	[__ __]	[__ __]	[__ __]	[__ __]
4. BAR LENGTHS, Inches	[__ __ .__]	[__ __ .__]	[__ __ .__]	[__ __ .__]
5. BAR SPACING, Inches	[__ __ .__]	[__ __ .__]	[__ __ .__]	[__ __ .__]

6. DOWEL COATINGS [__]
   None... 1 Paint and/or Grease... 2 Plastic... 3
   Monel... 4 Stainless Steel... 5 Epoxy.... 6
   Other (Specify)... 7 _____

. NUMBER OF SAW CUTS PER PATCH (If Sawed) [__ __]

8. DEPTH OF TYPICAL BOUNDARY SAW CUT, Inches [__ __ .__]

9. CONCRETE BREAKUP [__]
   None... 1 Pneumatic Air Hammer... 2 Gravity Drop Hammer... 3
   Sawing... 4
   Other (Specify)... 5 _____

10. REMOVAL OF CONCRETE [__]
    Concrete Breakup and Cleanout... 1 Lift Out Intact Slab Section... 2
    Other (Specify)... 3 _____

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 25 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

1. METHOD OF REINFORCING STEEL PLACEMENT [__]
   Chairs... 1 Between Layers of Concrete... 2

2. MIXTURE DESIGN FOR PCC PATCH MATERIAL (lb./Cubic Yard)
   Coarse Aggregate [__ __ __ __ .]
   Fine Aggregate [__ __ __ __ .]
   Cement [__ __ __ __ .]
   Water (Gallons/Cubic Yard) [__ __ __ __ .]

3. CEMENT TYPE USED [__ __]
   (See Type Codes, Table A.11)

4. AIR CONTENT (Percent by Volume)
   Mean [__ __ .__]
   Range [__ __ .__] to [__ __ .__]

5. ADMIXTURES [__ __]
   (See Cement Additive Codes, Table A.12) [__ __]

6. SLUMP (Inches)
   Mean [__ __ .]
   Range [__ __ .] to [__ __ .]

7. FLEXURAL STRENGTH (MODULUS OF RUPTURE) (psi) [__ __ __ __.]
   (Based on 3rd Point Loading) Curing Time, Days [__ __]
   If Unavailable, and Other Strength Test Conducted,
   Enter Alternate Test [_____]
   Type of Loading [_____]
   Age, Days [__ __]; Strength, psi [__ __ __ __.]

8. AMBIENT CONDITIONS AT TIME OF PATCHING
   Air Temperature °F LOW [__ __ __ .] HIGH [__ __ __ .]
   Surface Moisture - Dry = 1, Wet = 2 [__]

9. MAXIMUM SIZE OF COARSE AGGREGATE (Inches) [__ .__]

10. CONSOLIDATION OF MATERIALS [__]
    Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
    Rolling... 4 Tamping... 5
    Other (Specify)... 6 _____

12. FINISHING [__]
    Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
    Other (Specify)... 4 _____

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 26 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

1. JOINT FORMING METHOD SHOULDER [__] TRANSVERSE [__] LONGITUDINAL [__]

   None... 1 Polyethylene Strip Insert... 2 Styrofoam Insert... 3
   Fiberboard Insert... 4 Sawing... 5 Forms... 6
   Other (Specify)... 7 _____

2. WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [__]

   Yes... 1 No... 2

3. CURING METHOD METHOD 1 [__ __]

   METHOD 2 [__ __]

   None... 1 Membrane Curing Compound... 2
   Burlap Curing Blankets... 3 Waterproof Paper Blankets... 4
   White Polyethylene Sheeting... 5 Burlap-Polyethylene Blankets... 6
   Insulating Layers... 7 Cotton Mat Curing... 8 Hay... 9
   Other (Specify)... 10 _____

4. APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS [__ __.]

5. TYPE OF TRANSVERSE JOINTS IN PATCHES ___ OR SLABS ___

   None... 1 All Expansion Joints... 2 All Contraction Joints... 3
   Mixture of Expansion and Contraction Joints... 4

6. WERE OLD JOINTS MATCHED? [__]

   Yes... 1 No... 2

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 6]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	[0 5] [0 2] [0 7]

* 1. LANE WIDTH (Feet) [1 2.]

2. MONITORING SITE LANE NUMBER [1.]
(LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER
LANE 2 IS NEXT TO LANE 1, ETC.)

SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3. SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4. TOTAL SHOULDER WIDTH (Feet)	[6.]	[1 0.]
* 5. PAVED SHOULDER WIDTH (Feet)	[4.]	[1 0.]
6. SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7. SHOULDER SURFACE THICKNESS (Inches)	[1. 5]	[1. 5]
8. SHOULDER BASE THICKNESS (Inches)	[9. 5]	[9. 5]

* 9. SUBSURFACE DRAINAGE TYPE [4.]
No Subsurface Drainage... 1 Longitudinal Drains... 2
Transverse Drains... 3 Drainage Blanket... 4 Well System... 5
Drainage Blanket with Longitudinal Drains... 6
Other (Specify)... 7 _____

*10. SUBSURFACE DRAINAGE LOCATION [1.]
Continuous Along Test Section... 1 Intermittent... 2

11. DIAMETER OF LONGITUDINAL DRAINPIPES (Inches) [~~4.0~~]

12. SPACING OF LATERALS (Feet) 2nD [~~3 0 0.~~]
3/5/97

ENTERED MAR 03 1997 J B

PREPARER [illegible] EMPLOYER BRE DATE 02/19/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]				
2	[0 5]	[3 8]	[_ _6.5]	_ _5.6	_ _7.6	_ _0.5
3	[0 3]	[0 4]	[_ 1 0.6]	_ _9.8	_ 1 1.0	_ _0.3
4	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
5	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
6	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
7	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
8	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
9	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._
10	[_ _]	[_ _]	[_ _ _._]	_ _ _._	_ _ _._	_ _ _._

ENTERED MAR 0 3 1997 J B1

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [_ _ . _]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

PREPARED JIPaul EMPLOYER BRE DATE 01/04/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 1]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	___.___	___.___	6.6	10.1
	36	___.___	___.___	6.2	10.2
	72	___.___	___.___	6.2	10.1
	108	___.___	___.___	6.2	10.2
	144	___.___	___.___	6.2	10.0
0+00	0	___.___	___.___	7.3	10.0
	36	___.___	___.___	7.2	10.1
	72	___.___	___.___	7.3	10.1
	108	___.___	___.___	7.6	10.0
	144	___.___	___.___	7.4	10.1
0+50	0	___.___	___.___	6.8	9.8
	36	___.___	___.___	7.4	10.0
	72	___.___	___.___	7.4	10.0
	108	___.___	___.___	7.3	10.1
	144	___.___	___.___	7.6	9.8
1+00	0	___.___	___.___	6.5	10.7
	36	___.___	___.___	6.2	10.8
	72	___.___	___.___	6.7	10.7
	108	___.___	___.___	6.1	10.7
	144	___.___	___.___	6.0	10.7
1+50	0	___.___	___.___	7.1	10.6
	36	___.___	___.___	7.1	10.8
	72	___.___	___.___	7.2	10.8
	108	___.___	___.___	7.1	10.7
	144	___.___	___.___	7.0	10.7
2+00	0	___.___	___.___	7.0	10.6
	36	___.___	___.___	7.2	10.8
	72	___.___	___.___	6.7	10.9
	108	___.___	___.___	7.1	10.6
	144	___.___	___.___	6.4	10.6
2+50	0	___.___	___.___	6.1	10.7
	36	___.___	___.___	6.5	10.6
	72	___.___	___.___	6.6	10.6
	108	___.___	___.___	6.8	10.6
	144	___.___	___.___	6.6	10.7
LAYER NUMBER[1]		___ ___	___ ___	0 2	0 3

[1] from Construction Data Sheet 4

ENTERED MAR 03 1997 J B

PREPARER J. Peacock EMPLOYER BRE DATE 01/05/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0			6.2	10.8
	36			6.2	10.7
	72			6.1	10.6
	108			6.1	10.4
	144			6.1	10.4
3+50	0			5.9	10.8
	36			6.0	10.6
	72			6.2	10.4
	108			6.5	10.4
	144			6.1	10.4
4+00	0			6.2	10.7
	36			6.4	10.8
	72			6.5	10.7
	108			6.0	10.7
	144			6.1	10.7
4+50	0			6.2	11.0
	36			6.2	10.9
	72			6.6	10.9
	108			6.4	10.9
	144			6.6	10.8
5+00	0			6.1	10.7
	36			6.2	10.8
	72			6.2	10.8
	108			5.9	10.9
	144			6.1	10.9
5+50	0			6.2	10.8
	36			5.6	11.0
	72			5.9	10.9
	108			5.6	10.9
	144			5.6	10.9
+__					
LAYER NUMBER[1]				02	03

[1] from Construction Data Sheet 4

PREPARER A.L. Peacock EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

ENTERED MAR 03 1997 J B 1

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory - Steel Wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[ ]	[N/A]
*6. STABILIZING AGENT 2	[ ]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 0] * TEST SECTION NO. [0 7]

EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
- Round Dowels..... 1
- Aggregate Interlock..... 2
- Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.50]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
- Paint and/or Grease..... 1
- Plastic..... 2
- Monel..... 3
- Stainless Steel..... 4
- Epoxy..... 5
- Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
- Preplaced on Baskets..... 1
- Mechanically Installed..... 2
- Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER HPLP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 2]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert.....2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3"..... [3.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER JIM LP EMPLOYER BRE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

N/A

JPC

PREPARER NO LP EMPLOYER BRE DATE 01/09/96

550 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 9 7 0.]

*3. Fine Aggregate (Pounds)..... [1 3 3 3.]

*4. Cement (Pounds)..... [_ 3 3 0.]

*5. Water (Pounds)..... [_ 2 1 2.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE 1 [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8.	ADMIXTURE #1 TYPE C FLY ASH [1 1]	58 LBS.	[_ 1 5.0]
*9.	ADMIXTURE #2 AIR-ENTRAINMENT [0 8]	4.4 oz. PER CU.YD.	[_ _ 0.1]
*10.	ADMIXTURE #3 WATER REDUCING [0 1]	15.5 oz. PER CU.YD.	[_ _ 0.3]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel..... 3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 7]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [10-20-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [10-20-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON - Dump Crate Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

EMPLOYER RPE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [05] * SPS PROJECT CODE [03] * TEST SECTION NO. [07]

ENTERED MAR 03 1997 J B

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1 Burlap-Polyethylene Blanket... 5
   Burlap Curing Blankets..... 2 Cotton Mat Curing..... 6
   Waterproof Paper Blankets..... 3 Hay..... 7
   White Polyethylene Sheeting... 4
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1 Grooved Float..... 4
   Broom..... 2 Astro Turf..... 5
   Burlap Drag..... 3 None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

PREPARER HP I P EMPLOYER BRE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [01]

1. DATE PROFILE MEASURED (Month-Day-Year) [07-09-96]
2. PROFILOGRAPH TYPE Cox + McLaughlin California... 1 Rainhart... 2 [1]
3. PROFILE INDEX (Inches/Mile) [4.0]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.20]
6. CUTOFF HEIGHT (Inches) [0.30]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [11-20-95]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [01-22-96]

*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec

12. AVERAGE DEPTH OF CUT (Inches) [__.__]
13. CUTTING HEAD WIDTH (Inches) [___.__]
14. AVERAGE GROOVE WIDTH (Inches) [__.__]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [__.__]

ENTERED MAR 03 1997 J. B.

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To Boon Thian	Date 12/19/96 # of pages ▸ 1
Co./Dept.	From Amy Simpson
Phone #	Co
Fax #	Phone #
	Fax #

PREPARER [signature] EMPLOYER RRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 4] * TEST SECTION NO. [0 7]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

		INSIDE SHOULDER	OUTSIDE SHOULDER
* 1.	LANE WIDTH (Feet)		[1 4.]
2.	MONITORING SITE LANE NUMBER (LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER LANE 2 IS NEXT TO LANE 1, ETC.)		[1.]
	SHOULDER DATA		
* 3.	SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4.	TOTAL SHOULDER WIDTH (Feet)	[_4.]	[_8.]
* 5.	PAVED SHOULDER WIDTH (Feet)	[_2.]	[_8.]
6.	SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7.	SHOULDER SURFACE THICKNESS (Inches)	[_1.5]	[_1.5]
8.	SHOULDER BASE THICKNESS (Inches)	[_9.5]	[_9.5]
* 9.	SUBSURFACE DRAINAGE TYPE No Subsurface Drainage... 1 Longitudinal Drains... 2 Transverse Drains... 3 Drainage Blanket... 4 Well System... 5 Drainage Blanket with Longitudinal Drains... 6 Other (Specify)... 7 _____		[4.]
*10.	SUBSURFACE DRAINAGE LOCATION Continuous Along Test Section... 1 Intermittent... 2		[1.]
11.	DIAMETER OF LONGITUDINAL DRAINPIPES (Inches)		[_~~4.0~~]
12.	SPACING OF LATERALS (Feet)	ZWD 3/5/97	[~~300.~~]

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PREPARER [signature] EMPLOYER BRE DATE 02/19/96

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 9] * TEST SECTION NO. [0 8]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]				
2	[0 5]	[3 8]	[7.4]	6.5	8.2	0.3
3	[0 3]	[0 4]	[10.3]	9.0	11.9	0.5
4	[ ]	[ ]	[.]	.	.	.
5	[ ]	[ ]	[.]	.	.	.
6	[ ]	[ ]	[.]	.	.	.
7	[ ]	[ ]	[.]	.	.	.
8	[ ]	[ ]	[.]	.	.	.
9	[ ]	[ ]	[.]	.	.	.
10	[ ]	[ ]	[.]	.	.	.

ENTERED MAR 03 1997 J B

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [.]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

PREPARER [illegible] EMPLOYER BRE DATE 01/04/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 N 0] * TEST SECTION NO. [0 0 8]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES) DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	___.___	___.___	7.1	10.2
	36	___.___	___.___	7.3	10.2
	72	___.___	___.___	7.4	10.0
	108	___.___	___.___	7.3	10.0
	144	___.___	___.___	7.4	9.8
0+00	0	___.___	___.___	7.7	10.1
	36	___.___	___.___	7.6	10.3
	72	___.___	___.___	7.6	10.3
	108	___.___	___.___	7.4	10.1
	144	___.___	___.___	7.2	10.2
0+50	0	___.___	___.___	8.2	9.7
	36	___.___	___.___	7.9	10.4
	72	___.___	___.___	7.8	10.3
	108	___.___	___.___	7.4	10.3
	144	___.___	___.___	7.2	10.3
1+00	0	___.___	___.___	7.6	10.7
	36	___.___	___.___	7.6	11.2
	72	___.___	___.___	7.8	10.8
	108	___.___	___.___	7.7	10.6
	144	___.___	___.___	7.3	10.6
1+50	0	___.___	___.___	7.3	10.5
	36	___.___	___.___	7.7	11.8
	72	___.___	___.___	7.3	11.9
	108	___.___	___.___	7.2	11.8
	144	___.___	___.___	7.3	11.5
2+00	0	___.___	___.___	7.8	10.3
	36	___.___	___.___	7.8	10.6
	72	___.___	___.___	7.7	10.7
	108	___.___	___.___	7.6	10.7
	144	___.___	___.___	7.4	10.7
2+50	0	___.___	___.___	7.4	10.8
	36	___.___	___.___	7.8	10.4
	72	___.___	___.___	7.4	10.4
	108	___.___	___.___	7.2	10.3
	144	___.___	___.___	7.2	10.1
LAYER NUMBER[1]		___ ___	___ ___	0 2	0 3

[1] from Construction Data Sheet 4

ENTERED MAR 03 1997 J B 1

PREPARER J.H. Pesak EMPLOYER BRE DATE 01/05/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0			7.6	10.2
	36			7.6	10.3
	72			7.6	10.2
	108			7.0	10.1
	144			7.0	10.1
3+50	0			7.6	10.7
	36			7.6	10.3
	72			7.8	10.2
	108			7.3	10.1
	144			7.3	10.1
4+00	0			7.2	10.2
	36			7.1	10.4
	72			7.2	10.2
	108			6.8	10.2
	144			6.5	10.3
4-50	0			8.2	10.2
	36			7.6	10.3
	72			7.7	10.2
	108			7.3	10.0
	144			7.1	10.1
5+00	0			7.6	10.2
	36			7.6	10.3
	72			7.4	10.2
	108			7.2	10.1
	144			7.0	10.2
5+50	0			7.4	9.6
	36			7.4	9.6
	72			7.4	9.4
	108			7.6	9.2
	144			7.4	9.0
___+___	___				
	___				
	___				
	___				
	___				
LAYER NUMBER[1]				02	03

[1] from Construction Data Sheet 4

PREPARER [signature] EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 6] * TEST SECTION NO. [0 9]

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory -Steel Wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[__]	[N/A]
*6. STABILIZING AGENT 2	[__]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

PREPARER NP LP EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 6] * TEST SECTION NO. [0 8]

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
- Round Dowels..... 1
- Aggregate Interlock..... 2
- Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.50]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
- Paint and/or Grease..... 1
- Plastic..... 2
- Monel..... 3
- Stainless Steel..... 4
- Epoxy..... 5
- Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
- Preplaced on Baskets..... 1
- Mechanically Installed..... 2
- Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base, spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER MPLP EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3."..... [3.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12]

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER MPLP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

N/A

JPC

PREPARER H.P. LP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 8 4 2.]

*3. Fine Aggregate (Pounds)..... [_ 9 2 4.]

*4. Cement (Pounds)..... [_ 7 1 9.]

*5. Water (Pounds)..... [_ 2 7 1.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE I [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8. ADMIXTURE #1 TYPE C FLY ASH	[1 1]	127 LBS.	[_ 1 5.0]
*9. ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	11 oz. PER CU. YD.	[_ _ 0.1]
*10. ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 oz. PER CU. YD.	[_ _ 0.4]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify) _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. Jones Mill Quarry, #67 Stone	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel.....3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. Pine Bluff, S25 Sand	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [10-17-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [10-18-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [20]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

PREPARER JAP LP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [08]

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1 Burlap-Polyethylene Blanket... 5
   Burlap Curing Blankets..... 2 Cotton Mat Curing..... 6
   Waterproof Paper Blankets..... 3 Hay..... 7
   White Polyethylene Sheeting... 4
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1 Grooved Float..... 4
   Broom..... 2 Astro Turf..... 5
   Burlap Drag..... 3 None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

ENTERED MAR 03 1997 J B

PREPARER A.P. LP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

1. DATE PROFILE MEASURED (Month-Day-Year) [07-09-96]
2. PROFILOGRAPH TYPE California... 1 Rainhart... 2 Cox + McLaukin [1]
3. PROFILE INDEX (Inches/Mile) [6.6]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.20]
6. CUTOFF HEIGHT (Inches) [0.30]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [11-20-95]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [01-22-96]

*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec

12. AVERAGE DEPTH OF CUT (Inches) [__.__]
13. CUTTING HEAD WIDTH (Inches) [___.__]
14. AVERAGE GROOVE WIDTH (Inches) [__.__]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [__.__]

ENTERED MAR 03 1997 J B

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To Boon Thian	Date 12/19/96	# of pages ▶ 1
Co./Dept.	From Amy Simpson	
Phone #	Co.	
Fax #	Phone #	
	Fax #	

PREPARER [signature] EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 8]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 2] * TEST SECTION NO. [0 9]

* 1. LANE WIDTH (Feet) [1 4.]

2. MONITORING SITE LANE NUMBER [1.]
(LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER
LANE 2 IS NEXT TO LANE 1, ETC.)

SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3. SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4. TOTAL SHOULDER WIDTH (Feet)	[4.]	[8.]
* 5. PAVED SHOULDER WIDTH (Feet)	[2.]	[8.]
6. SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7. SHOULDER SURFACE THICKNESS (Inches)	[1.5]	[1.5]
8. SHOULDER BASE THICKNESS (Inches)	[9.5]	[9.5]
* 9. SUBSURFACE DRAINAGE TYPE No Subsurface Drainage... 1 Longitudinal Drains... 2 Transverse Drains... 3 Drainage Blanket... 4 Well System... 5 Drainage Blanket with Longitudinal Drains... 6 Other (Specify)... 7 _____		6 ~~[4.]~~ ZWD. 3/5/97
*10. SUBSURFACE DRAINAGE LOCATION Continuous Along Test Section... 1 Intermittent... 2		[1.]
11. DIAMETER OF LONGITUDINAL DRAINPIPES (Inches)		[4.0]
12. SPACING OF LATERALS (Feet)		[300.]

ENTERED MAR 03 1997 J B

PREPARER [signature] EMPLOYER BRE DATE 02/16/96

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 6]	[2 3]	[4.0] (zero)	___.__	___.__	___.__
3	[0 5]	[3 1]	[4.3]	3.2	5.4	0.5
4	[0 3]	[0 4]	[7.7]	7.0	8.8	0.4
5	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
6	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
7	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
8	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
9	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__
10	[__ __]	[__ __]	[___.__]	___.__	___.__	___.__

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [__ __ . __]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

PREPARER [illegible] EMPLOYER BRE DATE 01/04/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	— — . —	5.2	— — . —	7.8
	36	— — . —	4.9	— — . —	7.3
	72	— — . —	5.0	— — . —	7.1
	108	— — . —	4.6	— — . —	7.0
	144	— — . —	4.3	— — . —	7.0
0+00	0	— — . —	5.2	— — . —	7.8
	36	— — . —	4.9	— — . —	7.4
	72	— — . —	4.8	— — . —	7.3
	108	— — . —	4.6	— — . —	7.2
	144	— — . —	4.7	— — . —	7.1
0+50	0	— — . —	4.8	— — . —	7.9
	36	— — . —	4.6	— — . —	7.7
	72	— — . —	4.4	— — . —	7.4
	108	— — . —	4.4	— — . —	7.3
	144	— — . —	4.2	— — . —	7.3
1+00	0	— — . —	4.9	— — . —	7.7
	36	— — . —	5.0	— — . —	7.4
	72	— — . —	5.0	— — . —	7.1
	108	— — . —	4.4	— — . —	7.2
	144	— — . —	4.4	— — . —	7.0
1+50	0	— — . —	4.6	— — . —	7.9
	36	— — . —	4.6	— — . —	7.6
	72	— — . —	4.6	— — . —	7.6
	108	— — . —	4.3	— — . —	7.4
	144	— — . —	4.4	— — . —	7.6
2+00	0	— — . —	4.2	— — . —	7.9
	36	— — . —	4.7	— — . —	7.6
	72	— — . —	4.7	— — . —	7.6
	108	— — . —	4.3	— — . —	7.7
	144	— — . —	4.7	— — . —	7.3
2+50	0	— — . —	4.6	— — . —	7.8
	36	— — . —	5.4	— — . —	7.3
	72	— — . —	4.6	— — . —	7.3
	108	— — . —	4.3	— — . —	7.3
	144	— — . —	4.4	— — . —	7.2
LAYER NUMBER[1]		— —	03	— —	04

[1] from Construction Data Sheet 4

PREPARER dh/Eacuch EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B 1

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0		4.2		8.2
	36		4.6		7.6
	72		4.6		7.7
	108		4.2		7.7
	144		4.7		7.6
3+50	0		4.1		8.0
	36		4.1		7.3
	72		4.1		7.3
	108		4.1		7.3
	144		4.1		7.2
4+00	0		3.8		8.8
	36		4.0		8.3
	72		3.8		8.2
	108		3.8		8.3
	144		4.1		7.9
4+50	0		3.7		8.6
	36		3.6		8.2
	72		3.5		8.2
	108		3.2		8.2
	144		3.5		8.2
5+00	0		3.6		8.5
	36		3.7		7.9
	72		3.6		7.9
	108		3.8		7.9
	144		3.8		7.7
5+50	0		3.7		8.3
	36		4.0		7.9
	72		3.8		7.8
	108		3.8		7.8
	144		4.2		7.6
+					
LAYER NUMBER[1]			03		04

[1] from Construction Data Sheet 4

PREPARER 01/05/96 EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

ENTERED MAR 03 1997 J B

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory - Steel wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[ ]	[N/A]
*6. STABILIZING AGENT 2	[ ]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the Stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

PREPARER JP, LP EMPLOYER BRE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 F] * TEST SECTION NO. [0 9]

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [0 5] * SPS PROJECT CODE [0 1] * TEST SECTION NO. [1 9]

ENTERED MAR 0 3 1997 J B

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingram

*5. GROSS WEIGHT (Tons) [2.0]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) _____

Took out 4" of old stone base, replaced w/ recycled then followed w/ 4" lift @ 2 time

PREPARER NP, LP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 10 PLANT-MIXED ASPHALT BOUND LAYERS AGGREGATE PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [2 9]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. Jones Mill, Mid State, Minus 5/8	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone... 1 Manufactured gravel... 2 Crushed Gravel... 3
Crushed Slag..... 4 Manufactured Lightweight..... 5
Other (Specify)_____ 6

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 5.	[__]	[__ __ __.]
* 6.	[__]	[__ __ __.]
* 7.	[__]	[__ __ __.]

Natural Sand... 1
Crushed or Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

* 8. TYPE OF MINERAL FILLER [__]
Stone Dust... 1 Hydrated Lime... 2 Portland Cement... 3
Fly Ash... 4 Other (Specify)... 5 _____

BULK SPECIFIC GRAVITIES:

* 9. COARSE AGGREGATE (AASHTO T85 or ASTM C127) [__.__ __ __]

*10. FINE AGGREGATE (AASHTO T84 or ASTM C128) [__.__ __ __]

*11. MINERAL FILLER (AASHTO T100 or ASTM D854) [__.__ __ __]

*12. AGGREGATE COMBINATION (CALCULATED) [__.__ __ __]

13. EFFECTIVE SPECIFIC GRAVITY OF AGGREGATE COMBINATION (CALCULATED) [__.__ __ __]

AGGREGATE DURABILITY TEST RESULTS (CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
14.	Coarse	[__ __]	[__ __ __.__]
15.	Coarse	[__ __]	[__ __ __.__]
16.	Coarse	[__ __]	[__ __ __.__]
17.	Coarse and Fine - Combined	[__ __]	[__ __ __.__]

18. POLISH VALUE OF COARSE AGGREGATES SURFACE LAYER ONLY (AASHTO T279, ASTM D3319) [__ __]

PREPARER _____ EMPLOYER _____ DATE _____

ENTERED MAR 0 3 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 11 PLANT-MIXED ASPHALT BOUND LAYERS ASPHALT CEMENT PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [0 9]

ENTERED MAR 0 3 1997 J B

*1. LAYER NUMBER (FROM CONSTRUCTION SHEET 4) [3]

*2. ASPHALT GRADE (SEE ASPHALT CODE-SHEET, TABLE A.16) [3 0]
(IF OTHER, SPECIFY) _____

ZWD. 3/5/97

*3. SOURCE (SEE SUPPLY CODE SHEET, TABLE A.14) [0 7]
(IF OTHER, SPECIFY) _____

4. SPECIFIC GRAVITY OF ASPHALT CEMENT [1.0 3 3]
(AASHTO T228)

ORIGINAL ASPHALT CEMENT PROPERTIES (If available from supplier)

5. VISCOSITY OF ASPHALT AT 140°F (Poises) [_ _ _ _ _ _.]
(AASHTO T202)

6. VISCOSITY OF ASPHALT AT 275°F (Centistokes) [_ _ _ _._ _]
(AASHTO T202)

7. PENETRATION AT 77°F (AASHTO T49) (Tenths of a mm) [_ _ _ _.]
(100 g., 5 sec.)

ASPHALT MODIFIERS (SEE TYPE CODE, A.15)

		TYPE	QUANTITY (%)
8.	MODIFIER #1	[_ _]	[_ _.]
9.	MODIFIER #2 (IF OTHER, SPECIFY) _____	[_ _]	[_ _.]

10. DUCTILITY AT 77°F (cm) [_ _ _.]
(AASHTO T51)

11. DUCTILITY AT 39.2°F (cm) [_ _._.]
(AASHTO T51)

12. TEST RATE FOR DUCTILITY MEASUREMENT AT 39.2°f (cm/Min) [_ _ _.]

13. PENETRATION AT 39.2°F (AASHTO T49) (Tenths of a mm) [_ _ _.]
(200 g., 60 sec.)

14. RING AND BALL SOFTENING POINT (AASHTO T53) (°F) [_ _ _.]

NOTE: If emulsified or cutback asphalt was used, enter "N" in the spaces for "Original Asphalt Cement Properties".

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 12 PLANT-MIXED ASPHALT BOUND LAYERS MIXTURE PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [6 2] * TEST SECTION NO. [0 9]

ENTERED MAR 0 3 1997 J B

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*2. TYPE OF SAMPLES [__]
COMPACTED IN LABORATORY... 1 TAKEN FROM TEST SECTION... 2

*3. MAXIMUM SPECIFIC GRAVITY (NO AIR VOIDS) [2.5 4 0]
(AASHTO T209 OR ASTM D2041)

BULK SPECIFIC GRAVITY (ASTM D1188)

*4. MEAN [__.__ __ __] NUMBER OF TESTS [__ __.]
5. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
6. STD. DEV. [__.__ __ __]

ASPHALT CONTENT (PERCENT WEIGHT OF TOTAL MIX - AASHTO T164 OR ASTM D2172)

*7. MEAN [2.7 __ __] NUMBER OF SAMPLES [__ __.]
8. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
9. STD. DEV. [__.__ __ __]

PERCENT AIR VOIDS

*10. MEAN [__.__ __ __] NUMBER OF SAMPLES [__ __.]
11. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
12. STD. DEV. [__.__ __ __]

*13. VOIDS IN MINERAL AGGREGATE (Percent) [__ __.__]

*14. EFFECTIVE ASPHALT CONTENT (Percent) [__ __.__]

*15. MARSHALL STABILITY (lbs) (AASHTO T245 OR ASTM D1559) [__ __ __.__]

*16. NUMBER OF BLOWS [__ __]

*17. MARSHALL FLOW (Hundredths of an Inch) [__ __ __ __.]
(AASHTO T245 OR ASTM D1559)

*18. HVEEM STABILITY (AASHTO T246 OR ASTM D1561) [__ __ __.]

*19. HVEEM COHESIOMETER VALUE (GRAMS/25mm of Width) [__ __ __ __.]
(AASHTO T246 OR ASTM 1561)

*20. TYPE OF ANTISTRIPPING AGENT USED Permatech [0 1]
(SEE TYPE CODES, TABLE A.21) OTHER (SPECIFY) _____

*21. ANTISTRIPPING AGENT USED: LIQUID... 1 SOLID... 2 [1]

*22. AMOUNT OF ANTISTRIPPING AGENT USED (Percent) [__ 0.5]

(LIQUID: enter percent of asphalt cement weight SOLID: enter percent of aggregate weight.)

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 13 PLANT-MIXED ASPHALT BOUND LAYERS PLACEMENT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 8] * TEST SECTION NO. [0 9]

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [0 1-1 2-9 5]

*2. DATE PAVING OPERATIONS COMPLETED--(Month-Day-Year) [0 1-1 5-9 5]

*3 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Number
Plant 1	[__]	_____	[__ __ __]	[__ __]	[__ __]
Plant 2	[__]	_____	[__ __ __]	[__ __]	[__ __]

Plant Type: Batch..... 1 Drum Mix.... 2 Other...3 Specify_____

4. MANUFACTURER OF ASPHALT CONCRETE PAVER _____

5. MODEL DESIGNATION OF ASPHALT CONCRETE PAVER _____

6. SINGLE PASS LAYDOWN WIDTH (Feet) [__ __.__]

7. PATB PLACEMENT LIFTS: Layer Number [__ __]

Nominal First Lift Placement Thickness (Inches) [__.__]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (disruptions, rain, equip. problems, etc.)_____

PREPARER K.W.D. EMPLOYER BME DATE 2-27-97

SPS-2 CONSTRUCTION DATA SHEET 14 PLANT-MIXED ASPHALT BOUND LAYERS COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [0 1 - 1 2 - 9 5] ZWD
*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 1 5 - 9 5] 2/27/97
*3. LAYER NUMBER 3 [3]

*4. MIXING TEMPERATURE (°F) [_ _ _.]

5. LAYDOWN TEMPERATURES (°F)
Mean..... [_ _ _.]
Minimum..... [_ _ _.]
Standard Deviation... [_ _.]
Number of Tests ..... [_ _.]
Maximum..... [_ _ _.]

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press. (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem	_ _.__				
7	B	Steel-Whl Tandem	_ _.__				
8	C	Steel-Whl Tandem	_ _.__				
9	D	Steel-Whl Tandem	_ _.__				
10	E	Pneumatic-Tired	_ _.__	_ _ _ _.			
11	F	Pneumatic-Tired	_ _.__	_ _ _ _.			
12	G	Pneumatic-Tired	_ _.__	_ _ _ _.			
13	H	Pneumatic-Tired	_ _.__	.			
14	I	Single-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
15	J	Single-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
16	K	Single-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
17	L	Single-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
18	M	Double-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
19	N	Double-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
20	O	Double-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
21	P	Double-Drum Vibr.	_ _.__		_ _ _ _.	._ _ _	_ _.__
22	Q	Other					

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	_	_	_	_
24	Coverages	_ _.	_ _.	_ _.	_ _.
	INTERMEDIATE				
25	Roller Code (A-Q)	_	_	_	_
26	Coverages	_ _.	_ _.	_ _.	_ _.
	FINAL				
27	Roller Code (A-Q)	_	_	_	_
28	Coverages	_ _.	_ _.	_ _.	_ _.
29	Air Temperature (°F)	_ _ _.	_ _ _.	_ _ _.	_ _ _.
30	Compacted Thickness (In)	_._	_._	_._	_._
31	Curing Period (Days)	_ _._	_ _._	_ _._	_ _._

PREPARER Z.W.D. EMPLOYER BRE. DATE 2-27-97

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.25]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base, Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER M Peacock EMPLOYER BRE DATE 01/05/95

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3"..... [2.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [6.] <12

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... 3/8 - 1/2..... [0.5]

9. DEPTH, (Inches)..... 1/2"..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... 1/4 - 3/8..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) 5/8" [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) 30 [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER MPLP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

NA

JPC

PREPARER MPLP EMPLOYER BRE DATE 01/08/96

550 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 9 7 0.]

*3. Fine Aggregate (Pounds)..... [1 3 3 3.]

*4. Cement (Pounds)..... [_ 3 3 0.]

*5. Water (Pounds)..... [_ 2 1 2.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE 1 [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8.	ADMIXTURE #1 TYPE C FLY ASH [1 1]	58 LBS.	[_ 1 5.0]
*9.	ADMIXTURE #2 AIR-ENTRAINMENT [0 8]	4.4 oz. PER CU. YD.	[_ _ 0.1]
*10.	ADMIXTURE #3 WATER REDUCING [0 1]	15.5 oz. PER CU. YD.	[_ _ 0.3]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J. B.

SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. Jones Mill Quarry, #67 Stone	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel.....3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. Pine Bluff, S25 Sand	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

ENTERED MAR 03 1997 J. B.

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [10-16-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [10-16-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreadder

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON DumpCrete Crawler Spreadder

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

PREPARER MR LP EMPLOYER BRE DATE 01/23/96

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 9]

ENTERED MAR 0 3 1997 J . B

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Troweling

3. CURING [✓]
   Membrane Curing Compound..... 1
   Burlap Curing Blankets..... 2
   Waterproof Paper Blankets..... 3
   White Polyethylene Sheeting... 4
   Burlap-Polyethylene Blanket... 5
   Cotton Mat Curing..... 6
   Hay..... 7
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1
   Broom..... 2
   Burlap Drag..... 3
   Grooved Float..... 4
   Astro Turf..... 5
   None..... 6
   Other (Specify) Used Burlap Drag Prior to finish 7

PREPARER MLP, LP EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [09]

1. DATE PROFILE MEASURED (Month-Day-Year) [07-09-96]
2. PROFILOGRAPH TYPE California... 1 Rainhart... 2 Cox + McLaughlin [1]
3. PROFILE INDEX (Inches/Mile) [0.4]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.20]
6. CUTOFF HEIGHT (Inches) [0.30]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [11-20-95]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [01-22-96]

*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec

12. AVERAGE DEPTH OF CUT (Inches) [__.__]
13. CUTTING HEAD WIDTH (Inches) [___.__]
14. AVERAGE GROOVE WIDTH (Inches) [__.__]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [__.__]

ENTERED MAR 03 1997 J. B.

Post-it® Fax Note 7671

To Boon Thian	Date 12/19/96	# of pages ▶ 1
Co./Dept.	From Amy Simpson	
Phone #	Co.	
Fax #	Phone #	
	Fax #	

PREPARER [signature] EMPLOYER BRE DATE 1-29-97

TOTAL P.001

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [0 4]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	[0 5] [0 2] [1 0]

* 1.	LANE WIDTH (Feet)		[1 2.]
2.	MONITORING SITE LANE NUMBER (LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER LANE 2 IS NEXT TO LANE 1, ETC.)		[1.]
	SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3.	SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4.	TOTAL SHOULDER WIDTH (Feet)	[_ 6.]	[1 0.]
* 5.	PAVED SHOULDER WIDTH (Feet)	[_ 4.]	[1 0.]
6.	SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7.	SHOULDER SURFACE THICKNESS (Inches)	[_ 1. 5]	[_ 1. 5]
8.	SHOULDER BASE THICKNESS (Inches)	[_ 9. 5]	[_ 9. 5]
* 9.	SUBSURFACE DRAINAGE TYPE No Subsurface Drainage... 1 Longitudinal Drains... 2 Transverse Drains... 3 Drainage Blanket... 4 Well System... 5 Drainage Blanket with Longitudinal Drains... 6 Other (Specify)... 7 _____		6 ~~4~~.] 2W0 3/5/97
*10.	SUBSURFACE DRAINAGE LOCATION Continuous Along Test Section... 1 Intermittent... 2		[1.]
11.	DIAMETER OF LONGITUDINAL DRAINPIPES (Inches)		[_ 4.0]
12.	SPACING OF LATERALS (Feet)		[3 0 0.]

ENTERED MAR 0 3 1997 J B

PREPARER MEAlak EMPLOYER BRE DATE 02/19/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 6]	[2 3]	[4.0]	---.-	---.-	---.-
3	[0 5]	[3 1]	[4.0]	---.-	---.-	---.-
4	[0 3]	[0 4]	[8.0]	---.-	---.-	---.-
5	[ ]	[ ]	[---.-]	---.-	---.-	---.-
6	[ ]	[ ]	[---.-]	---.-	---.-	---.-
7	[ ]	[ ]	[---.-]	---.-	---.-	---.-
8	[ ]	[ ]	[---.-]	---.-	---.-	---.-
9	[ ]	[ ]	[---.-]	---.-	---.-	---.-
10	[ ]	[ ]	[---.-]	---.-	---.-	---.-

ENTERED MAR 03 1997 J B

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [.]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

EMPLOYER BRE DATE 01/04/96

No data 2/27/97

February 1992

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0] * TEST SECTION NO. [1 0]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
__+__ __	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
__+__ __	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
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	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
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	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
	__ __ __	__ __ ·__	__ __ ·__	__ __ ·__	__ __ ·__
LAYER NUMBER[1]		__ __	__ __	__ __	__ __

[1] from Construction Data Sheet 4

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [05] * SPS PROJECT CODE [06] * TEST SECTION NO. [01]

ENTERED MAR 03 1997 J B

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory - Steel wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[ ]	[N/A]
*6. STABILIZING AGENT 2	[ ]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [1 D]

---- --- EMPLOYER ___ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [0 5] * SPS PROJECT CODE [0 1] * TEST SECTION NO. [1 0]

ENTERED MAR 03 1997 J B

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingram

*5. GROSS WEIGHT (Tons) [2.0]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) _____

Took out 4" of old stone base replaced w/ recycled then followed w/ 4" lift @ 2 time

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 10 PLANT-MIXED ASPHALT BOUND LAYERS AGGREGATE PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 0] * TEST SECTION NO. [1 0]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. Jones Mill, Mid State, Minus 5/8	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone... 1 Manufactured gravel... 2 Crushed Gravel... 3
Crushed Slag..... 4 Manufactured Lightweight..... 5
Other (Specify)_____ 6

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 5.	[__]	[__ __ __.]
* 6.	[__]	[__ __ __.]
* 7.	[__]	[__ __ __.]

Natural Sand... 1
Crushed or Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

* 8. TYPE OF MINERAL FILLER [__]
Stone Dust... 1 Hydrated Lime... 2 Portland Cement... 3
Fly Ash... 4 Other (Specify)... 5 _____

BULK SPECIFIC GRAVITIES:

* 9.	COARSE AGGREGATE (AASHTO T85 or ASTM C127)	[__.__ __ __]
*10.	FINE AGGREGATE (AASHTO T84 or ASTM C128)	[__.__ __ __]
*11.	MINERAL FILLER (AASHTO T100 or ASTM D854)	[__.__ __ __]
*12.	AGGREGATE COMBINATION (CALCULATED)	[__.__ __ __]
13.	EFFECTIVE SPECIFIC GRAVITY OF AGGREGATE COMBINATION (CALCULATED)	[__.__ __ __]

AGGREGATE DURABILITY TEST RESULTS (CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
14.	Coarse	[__ __]	[__ __ __.__]
15.	Coarse	[__ __]	[__ __ __.__]
16.	Coarse	[__ __]	[__ __ __.__]
17.	Coarse and Fine - Combined	[__ __]	[__ __ __.__]

18. POLISH VALUE OF COARSE AGGREGATES [__ __]
SURFACE LAYER ONLY (AASHTO T279, ASTM D3319)

EMPLOYEE DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 11 PLANT-MIXED ASPHALT BOUND LAYERS ASPHALT CEMENT PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

ENTERED MAR 03 1997 J B

*1. LAYER NUMBER (FROM CONSTRUCTION SHEET 4) [3]

*2. ASPHALT GRADE (SEE ASPHALT CODE SHEET, TABLE A.16) [0 5]
(IF OTHER, SPECIFY) _____

*3. SOURCE (SEE SUPPLY CODE SHEET, TABLE A.14) [0 7]
(IF OTHER, SPECIFY) _____

4. SPECIFIC GRAVITY OF ASPHALT CEMENT [1.0 3 3]
(AASHTO T228)

ORIGINAL ASPHALT CEMENT PROPERTIES (If available from supplier)

5. VISCOSITY OF ASPHALT AT 140°F (Poises) [_ _ _ _ _ _.]
(AASHTO T202)

6. VISCOSITY OF ASPHALT AT 275°F (Centistokes) [_ _ _ _._ _]
(AASHTO T202)

7. PENETRATION AT 77°F (AASHTO T49) (Tenths of a mm) [_ _ _ _.]
(100 g., 5 sec.)

ASPHALT MODIFIERS (SEE TYPE CODE, A.15)

		TYPE	QUANTITY (%)
8.	MODIFIER #1	[_ _]	[_ _.]
9.	MODIFIER #2 (IF OTHER, SPECIFY) _____	[_ _]	[_ _.]
10.	DUCTILITY AT 77°F (cm) (AASHTO T51)		[_ _ _.]
11.	DUCTILITY AT 39.2°F (cm) (AASHTO T51)		[_ _._.]
12.	TEST RATE FOR DUCTILITY MEASUREMENT AT 39.2°f (cm/Min)		[_ _ _.]
13.	PENETRATION AT 39.2°F (AASHTO T49) (Tenths of a mm) (200 g., 60 sec.)		[_ _ _.]
14.	RING AND BALL SOFTENING POINT (AASHTO T53) (°F)		[_ _ _.]

NOTE: If emulsified or cutback asphalt was used, enter "N" in the spaces for "Original Asphalt Cement Properties".

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 12 PLANT-MIXED ASPHALT BOUND LAYERS MIXTURE PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

ENTERED MAR 0 3 1997 J B -

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*2. TYPE OF SAMPLES [__]
COMPACTED IN LABORATORY... 1 TAKEN FROM TEST SECTION... 2

*3. MAXIMUM SPECIFIC GRAVITY (NO AIR VOIDS) [2.5 4 0]
(AASHTO T209 OR ASTM D2041)

BULK SPECIFIC GRAVITY (ASTM D1188)

*4. MEAN [__.__ __ __] NUMBER OF TESTS [__ __.]
5. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
6. STD. DEV. [__.__ __ __]

ASPHALT CONTENT (PERCENT WEIGHT OF TOTAL MIX - AASHTO T164 OR ASTM D2172)

*7. MEAN [2.7 __ __] NUMBER OF SAMPLES [__ __.]
8. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
9. STD. DEV. [__.__ __ __]

PERCENT AIR VOIDS

*10. MEAN [__.__ __ __] NUMBER OF SAMPLES [__ __.]
11. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
12. STD. DEV. [__.__ __ __]

*13. VOIDS IN MINERAL AGGREGATE (Percent) [__ __.__]

*14. EFFECTIVE ASPHALT CONTENT (Percent) [__ __.__]

*15. MARSHALL STABILITY (lbs) (AASHTO T245 OR ASTM D1559) [__ __ __.__]

*16. NUMBER OF BLOWS [__ __]

*17. MARSHALL FLOW (Hundredths of an Inch) [__ __ __ __.]
(AASHTO T245 OR ASTM D1559)

*18. HVEEM STABILITY (AASHTO T246 OR ASTM D1561) [__ __ __.]

*19. HVEEM COHESIOMETER VALUE (GRAMS/25mm of Width) [__ __ __ __.]
(AASHTO T246 OR ASTM 1561)

*20. TYPE OF ANTISTRIPPING AGENT USED [0 1]
(SEE TYPE CODES, TABLE A.21) OTHER (SPECIFY) _____

*21. ANTISTRIPPING AGENT USED: LIQUID... 1 SOLID... 2 [1]

*22. AMOUNT OF ANTISTRIPPING AGENT USED (Percent) [__ 0.5]

(LIQUID: enter percent of asphalt cement weight SOLID: enter percent of aggregate weight.)

DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 13 PLANT-MIXED ASPHALT BOUND LAYERS PLACEMENT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [0 1 - 31 - 9 5]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [0 2 - 03 - 9 5]

*3 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Number
Plant 1	[__]	_____	[__ __ __]	[__ __]	[__ __]
Plant 2	[__]	_____	[__ __ __]	[__ __]	[__ __]

Plant Type: Batch..... 1 Drum Mix.... 2 Other...3 Specify_____

4. MANUFACTURER OF ASPHALT CONCRETE PAVER _____

5. MODEL DESIGNATION OF ASPHALT CONCRETE PAVER _____

6. SINGLE PASS LAYDOWN WIDTH (Feet) [__ __.__]

7. PATB PLACEMENT LIFTS: Layer Number [__ __]

Nominal First Lift Placement Thickness (Inches) [__.__]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (disruptions, rain, equip. problems, etc.)_____

PREPARED Lane W. Hanna EMPLOYER BPE DATE 2/27/97

SPS-2 CONSTRUCTION DATA SHEET 14 PLANT-MIXED ASPHALT BOUND LAYERS COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [0 1-3 0-9 5]
*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [0 2-0 2-9 5]
*3. LAYER NUMBER [3]

*4. MIXING TEMPERATURE (°F) [__ __ __.]

5. LAYDOWN TEMPERATURES (°F)
Mean..... [__ __ __.]
Minimum..... [__ __ __.]
Standard Deviation... [__ __.__]
Number of Tests ..... [__ __.]
Maximum..... [__ __ __.]

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press. (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem	__ __.__				
7	B	Steel-Whl Tandem	__ __.__				
8	C	Steel-Whl Tandem	__ __.__				
9	D	Steel-Whl Tandem	__ __.__				
10	E	Pneumatic-Tired	__ __.__	__ __ __ __.			
11	F	Pneumatic-Tired	__ __.__	__ __ __ __.			
12	G	Pneumatic-Tired	__ __.__	__ __ __ __.			
13	H	Pneumatic-Tired	__ __.__				
14	I	Single-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
15	J	Single-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
16	K	Single-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
17	L	Single-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
18	M	Double-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
19	N	Double-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
20	O	Double-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
21	P	Double-Drum Vibr.	__ __.__		__ __ __ __.	.__ __ __	__ __.__
22	Q	Other					

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	__	__	__	__
24	Coverages	__ __.	__ __.	__ __.	__ __.
	INTERMEDIATE				
25	Roller Code (A-Q)	__	__	__	__
26	Coverages	__ __.	__ __.	__ __.	__ __.
	FINAL				
27	Roller Code (A-Q)	__	__	__	__
28	Coverages	__ __.	__ __.	__ __.	__ __.
29	Air Temperature (°F)	__ __ __.	__ __ __.	__ __ __.	__ __ __.
30	Compacted Thickness (In)	__.__	__.__	__.__	__.__
31	Curing Period (Days)	__ __.__	__ __.__	__ __.__	__ __.__

[illegible] EMPLOYED RLE DATE 2-27-97

February 1992

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.25]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER HPLP EMPLOYER BRE DATE 01/09/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [9 2] * TEST SECTION NO. [1 D]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3."..... [2.6 6]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER JHP, LP EMPLOYER BRE DATE 01/09/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

NA

JPC

PREPARER [illegible] EMPLOYER BRE DATE 01/09/91

900 PSI February 199_

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 8 4 2.]

*3. Fine Aggregate (Pounds)..... [_ 9 2 4.]

*4. Cement (Pounds)..... [_ 7 1 9.]

*5. Water (Pounds)..... [_ 2 7 1.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE I [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8. ADMIXTURE #1 TYPE C FLY ASH	[1 1]	127 LBS.	[_ 1 5.0]
*9. ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	11 oz. PER CU. YD.	[_ _ 0.1]
*10. ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 oz. PER CU. YD.	[_ _ 0.4]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify) _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J 1B

SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[_]	[_ _ _.]
* 4.	[_]	[_ _ _.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel..... 3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [_ _.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[_]	[_ _ _.]
* 8.	[_]	[_ _ _.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [_ _ _.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	_ _ _
1 1/2"....	_ _ _
1".....	_ _ _
7/8".....	_ _ _
3/4".....	1 0 0
5/8".....	_ _ _
1/2".....	_ 7 4
3/8".....	_ 3 4
No. 4.....	_ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	_ 9 2
No. 10....	_ _ _
No. 16....	_ 8 0
No. 30....	_ 5 4
No. 40....	_ _ _
No. 50....	_ 1 3
No. 80....	_ _ _
No. 100...	_ 0 2
No. 200...	_ _ _

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 _]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 _]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

ENTERED MAR 0 3 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 D]

ENTERED MAR 03 1997 J B.J

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [10-21-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [10-21-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [20]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

---- --- 1 1 D EMPLOYED RDF DATE 01/09/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

ENTERED MAR 0 3 1997 J B

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1 Burlap-Polyethylene Blanket... 5
   Burlap Curing Blankets..... 2 Cotton Mat Curing..... 6
   Waterproof Paper Blankets..... 3 Hay..... 7
   White Polyethylene Sheeting... 4
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1 Grooved Float..... 4
   Broom..... 2 Astro Turf..... 5
   Burlap Drag..... 3 None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

1. DATE PROFILE MEASURED (Month-Day-Year) [07-09-96]
2. PROFILOGRAPH TYPE Cox + McLaughlin California... 1 Rainhart... 2 [1]
3. PROFILE INDEX (Inches/Mile) [4.0]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.20]
6. CUTOFF HEIGHT (Inches) [0.30]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [11-20-95]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [01-22-96]
*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec
12. AVERAGE DEPTH OF CUT (Inches) [__.__]
13. CUTTING HEAD WIDTH (Inches) [___.__]
14. AVERAGE GROOVE WIDTH (Inches) [__.__]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [__.__]

ENTERED MAR 0 3 1997 J B

Post-it® Fax Note 7671

To Boon Thian	Date 12/19/96 # of pages ▶ 1
Co./Dept.	From Amy Simpson
Phone #	Co.
Fax #	Phone #
	Fax #

PREPARER [signature] EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 24 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

1. SECURING LOAD TRANSFER DEVICES [__]
   None... 1 Grout Filler... 2 Epoxy filler...3
   Other... 4 _____

2. REINFORCING STEEL PLACED IN PATCH [__]
   No... 1 Yes... 2

	Temperature Steel Transverse	Temperature Steel Longitudinal	Dowel Bars	Tie Bars
3. REBAR NUMBER DESIGNATION	[__ __]	[__ __]	[__ __]	[__ __]
4. BAR LENGTHS, Inches	[__ __ .__]	[__ __ .__]	[__ __ .__]	[__ __ .__]
5. BAR SPACING, Inches	[__ __ .__]	[__ __ .__]	[__ __ .__]	[__ __ .__]

6. DOWEL COATINGS [__]
   None... 1 Paint and/or Grease... 2 Plastic... 3
   Monel... 4 Stainless Steel... 5 Epoxy.... 6
   Other (Specify)... 7 _____

. NUMBER OF SAW CUTS PER PATCH (If Sawed) [__ __]

8. DEPTH OF TYPICAL BOUNDARY SAW CUT, Inches [__ __ .__]

9. CONCRETE BREAKUP [__]
   None... 1 Pneumatic Air Hammer... 2 Gravity Drop Hammer... 3
   Sawing... 4
   Other (Specify)... 5 _____

10. REMOVAL OF CONCRETE [__]
    Concrete Breakup and Cleanout... 1 Lift Out Intact Slab Section... 2
    Other (Specify)... 3 _____

There WAS NO full depth repair On Any PART of Project. See Project DIARY in Yellow BAGGIE
[illegible] W. Dunn
2-27-97

P.S. I took out these forms for the other sections
Z.W.D.

PREPARED EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 25 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

1. METHOD OF REINFORCING STEEL PLACEMENT [__]
   Chairs... 1 Between Layers of Concrete... 2

2. MIXTURE DESIGN FOR PCC PATCH MATERIAL (lb./Cubic Yard)
   Coarse Aggregate [__ __ __ __ .]
   Fine Aggregate [__ __ __ __ .]
   Cement [__ __ __ __ .]
   Water (Gallons/Cubic Yard) [__ __ __ __ .]

3. CEMENT TYPE USED [__ __]
   (See Type Codes, Table A.11)

4. AIR CONTENT (Percent by Volume)
   Mean [__ __ .__]
   Range [__ __ .__] to [__ __ .__]

5. ADMIXTURES [__ __]
   (See Cement Additive Codes, Table A.12) [__ __]

6. SLUMP (Inches)
   Mean [__ __ .]
   Range [__ __ .] to [__ __ .]

7. FLEXURAL STRENGTH (MODULUS OF RUPTURE) (psi) [__ __ __ __.]
   (Based on 3rd Point Loading) Curing Time, Days [__ __]
   If Unavailable, and Other Strength Test Conducted,
   Enter Alternate Test [_____]
   Type of Loading [_____]
   Age, Days [__ __]; Strength, psi [__ __ __ __.]

8. AMBIENT CONDITIONS AT TIME OF PATCHING
   Air Temperature °F LOW [__ __ __ .] HIGH [__ __ __ .]
   Surface Moisture - Dry = 1, Wet = 2 [__]

9. MAXIMUM SIZE OF COARSE AGGREGATE (Inches) [__ .__]

10. CONSOLIDATION OF MATERIALS [__]
    Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
    Rolling... 4 Tamping... 5
    Other (Specify)... 6 _____

12. FINISHING [__]
    Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
    Other (Specify)... 4 _____

2-27-97

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 26 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

1. JOINT FORMING METHOD SHOULDER [__] TRANSVERSE [__] LONGITUDINAL [__]

   None... 1 Polyethylene Strip Insert... 2 Styrofoam Insert... 3
   Fiberboard Insert... 4 Sawing... 5 Forms... 6
   Other (Specify)... 7 _____

2. WAS BOND BREAKER USED BETWEEN ADJACENT LANES? [__]

   Yes... 1 No... 2

3. CURING METHOD METHOD 1 [__ __]

   METHOD 2 [__ __]

   None... 1 Membrane Curing Compound... 2
   Burlap Curing Blankets... 3 Waterproof Paper Blankets... 4
   White Polyethylene Sheeting... 5 Burlap-Polyethylene Blankets... 6
   Insulating Layers... 7 Cotton Mat Curing... 8 Hay... 9
   Other (Specify)... 10 _____

4. APPROXIMATE TYPICAL TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS [__ __.]

5. TYPE OF TRANSVERSE JOINTS IN PATCHES ___ OR SLABS ___

   None... 1 All Expansion Joints... 2 All Contraction Joints... 3
   Mixture of Expansion and Contraction Joints... 4

6. WERE OLD JOINTS MATCHED? [__]

   Yes... 1 No... 2

LWD. 2-27-97

PREPARED EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	05 02 01

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARED _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	[0 5] [0 2] [1 1]

* 1.	LANE WIDTH (Feet)		[1 2.]
2.	MONITORING SITE LANE NUMBER (LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER LANE 2 IS NEXT TO LANE 1, ETC.)		[1.]
	SHOULDER DATA	INSIDE SHOULDER	OUTSIDE SHOULDER
* 3.	SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4.	TOTAL SHOULDER WIDTH (Feet)	[_ 6.]	[1 0.]
* 5.	PAVED SHOULDER WIDTH (Feet)	[_ 4.]	[1 0.]
6.	SHOULDER BASE TYPE (CODES-TABLE A.6)	[2 3.]	[2 3.]
7.	SHOULDER SURFACE THICKNESS (Inches)	[_ 1. 5]	[_ 1. 5]
8.	SHOULDER BASE THICKNESS (Inches)	[_ 9. 5]	[_ 9. 5]
* 9.	SUBSURFACE DRAINAGE TYPE No Subsurface Drainage... 1 Longitudinal Drains... 2 Transverse Drains... 3 Drainage Blanket... 4 Well System... 5 Drainage Blanket with Longitudinal Drains... 6 Other (Specify)... 7 _____		6 [~~4~~.] zw10 3/5/97
*10.	SUBSURFACE DRAINAGE LOCATION Continuous Along Test Section... 1 Intermittent... 2		[1.]
11.	DIAMETER OF LONGITUDINAL DRAINPIPES (Inches)		[_ 4.0]
12.	SPACING OF LATERALS (Feet)		[3 0 0.]

ENTERED MAR 03 1997 J B

PREPARER [signature] EMPLOYER BRE DATE 02/19/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1]

ENTERED MAR 0 3 1997 J B.

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]	[redacted]	[redacted]	[redacted]	[redacted]
2	[0 6]	[2 3]	[4.0]			
3	[0 5]	[3 1]	[4.8]	3.7	6.5	0.5
4	[0 3]	[0 4]	[10.5]	9.0	11.4	0.4
5	[ ]	[ ]	[ ]			
6	[ ]	[ ]	[ ]			
7	[ ]	[ ]	[ ]			
8	[ ]	[ ]	[ ]			
9	[ ]	[ ]	[ ]			
10	[ ]	[ ]	[ ]			

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [.]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

EMPLOYER BRE DATE 01/09/96

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

LAYER THICKNESS MEASUREMENTS (Inches)

SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	— — . —	4.5	— — . —	10.2
	36	— — . —	4.1	— — . —	10.1
	72	— — . —	4.1	— — . —	9.7
	108	— — . —	4.1	— — . —	9.5
	144	— — . —	4.2	— — . —	9.0
0+00	0	— — . —	6.5	— — . —	10.4
	36	— — . —	6.3	— — . —	10.8
	72	— — . —	5.8	— — . —	11.0
	108	— — . —	5.0	— — . —	11.4
	144	— — . —	5.5	— — . —	10.8
0+50	0	— — . —	4.5	— — . —	11.3
	36	— — . —	4.8	— — . —	11.2
	72	— — . —	5.0	— — . —	11.2
	108	— — . —	4.6	— — . —	11.0
	144	— — . —	4.5	— — . —	10.7
1+00	0	— — . —	4.4	— — . —	11.3
	36	— — . —	4.9	— — . —	10.8
	72	— — . —	5.0	— — . —	10.8
	108	— — . —	4.6	— — . —	10.8
	144	— — . —	4.8	— — . —	10.4
1+50	0	— — . —	4.9	— — . —	10.8
	36	— — . —	5.3	— — . —	10.6
	72	— — . —	5.3	— — . —	10.3
	108	— — . —	4.6	— — . —	10.7
	144	— — . —	4.4	— — . —	10.2
2+00	0	— — . —	4.7	— — . —	11.2
	36	— — . —	5.0	— — . —	10.9
	72	— — . —	4.6	— — . —	11.0
	108	— — . —	4.4	— — . —	11.2
	144	— — . —	4.7	— — . —	10.8
2+50	0	— — . —	4.6	— — . —	10.9
	36	— — . —	5.6	— — . —	10.6
	72	— — . —	4.6	— — . —	10.7
	108	— — . —	4.2	— — . —	10.8
	144	— — . —	3.7	— — . —	10.4
LAYER NUMBER[1]		— —	03	— —	04

[1] from Construction Data Sheet 4

PREPARER A. Peacock EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

SHEET ____ OF ____

LAYER THICKNESS MEASUREMENTS (Inches)

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0	— — . —	5.0	— — . —	10.4
	36	— — . —	5.5	— — . —	10.2
	72	— — . —	5.1	— — . —	10.4
	108	— — . —	4.9	— — . —	10.4
	144	— — . —	5.2	— — . —	10.0
3+50	0	— — . —	4.2	— — . —	10.8
	36	— — . —	5.4	— — . —	10.1
	72	— — . —	4.6	— — . —	10.4
	108	— — . —	4.1	— — . —	10.7
	144	— — . —	4.0	— — . —	10.8
4+00	0	— — . —	5.4	— — . —	10.1
	36	— — . —	5.5	— — . —	10.4
	72	— — . —	4.9	— — . —	10.3
	108	— — . —	4.7	— — . —	10.3
	144	— — . —	4.7	— — . —	10.2
4+50	0	— — . —	4.7	— — . —	10.3
	36	— — . —	4.7	— — . —	10.2
	72	— — . —	4.6	— — . —	10.2
	108	— — . —	4.6	— — . —	10.2
	144	— — . —	4.8	— — . —	9.8
5+00	0	— — . —	4.1	— — . —	10.4
	36	— — . —	5.0	— — . —	10.3
	72	— — . —	4.6	— — . —	10.2
	108	— — . —	4.3	— — . —	10.6
	144	— — . —	4.6	— — . —	10.1
5+50	0	— — . —	5.2	— — . —	10.7
	36	— — . —	5.3	— — . —	10.3
	72	— — . —	5.2	— — . —	10.3
	108	— — . —	5.2	— — . —	10.4
	144	— — . —	5.0	— — . —	10.2
—+— —	— — —	— — . —	— — . —	— — . —	— — . —
	— — —	— — . —	— — . —	— — . —	— — . —
	— — —	— — . —	— — . —	— — . —	— — . —
	— — —	— — . —	— — . —	— — . —	— — . —
	— — —	— — . —	— — . —	— — . —	— — . —
LAYER NUMBER[1]		— —	0 3	— —	0 4

[1] from Construction Data Sheet 4

ENTERED MAR 03 1997 J B

PREPARER dh Pearson EMPLOYER BRE DATE 01/05/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 9] * TEST SECTION NO. [1 1]

ENTERED MAR 03 1997 J B.

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory - Steel wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[ ]	[N/A]
*6. STABILIZING AGENT 2	[ ]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

---- -- EMPLOYER ____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 8] * TEST SECTION NO. [1 1]

EMPLOYER

DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [1 1]

ENTERED MAR 0 3 1997 J

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingram

*5. GROSS WEIGHT (Tons) [2.0]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) _____

Took out 4" of old stone base, replaced w/ recycled then followed w/ 4" lift @ 2 time

PREPARER _____ EMPLOYER _____ DATE _____

PATB

February 1992

SPS-2 CONSTRUCTION DATA SHEET 10 PLANT-MIXED ASPHALT BOUND LAYERS AGGREGATE PROPERTIES	* STATE CODE [05] * SPS PROJECT CODE [0904] * TEST SECTION NO. [01]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) Type 4 Open Graded [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. Jones Mill, Mid State, Minus 5/8	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone... 1 Manufactured gravel... 2 Crushed Gravel... 3
Crushed Slag..... 4 Manufactured Lightweight..... 5
Other (Specify)_____ 6

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 5.	[__]	[__ __ __.]
* 6.	[__]	[__ __ __.]
* 7.	[__]	[__ __ __.]

Natural Sand... 1
Crushed or Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

* 8. TYPE OF MINERAL FILLER [__]
Stone Dust... 1 Hydrated Lime... 2 Portland Cement... 3
Fly Ash... 4 Other (Specify)... 5 _____

BULK SPECIFIC GRAVITIES:

* 9. COARSE AGGREGATE (AASHTO T85 or ASTM C127) [__.__ __ __]

*10. FINE AGGREGATE (AASHTO T84 or ASTM C128) [__.__ __ __]

*11. MINERAL FILLER (AASHTO T100 or ASTM D854) [__.__ __ __]

*12. AGGREGATE COMBINATION (CALCULATED) [__.__ __ __]

13. EFFECTIVE SPECIFIC GRAVITY OF AGGREGATE COMBINATION (CALCULATED) [__.__ __ __]

AGGREGATE DURABILITY TEST RESULTS (CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
14.	Coarse	[__ __]	[__ __ __.__]
15.	Coarse	[__ __]	[__ __ __.__]
16.	Coarse	[__ __]	[__ __ __.__]
17.	Coarse and Fine - Combined	[__ __]	[__ __ __.__]

18. POLISH VALUE OF COARSE AGGREGATES [__ __]
SURFACE LAYER ONLY (AASHTO T279, ASTM D3319)

EMPLOYED DATE _____

February 1992

PATB

SPS-2 CONSTRUCTION DATA SHEET 11 PLANT-MIXED ASPHALT BOUND LAYERS ASPHALT CEMENT PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

ENTERED MAR 03 1997 J B

*1. LAYER NUMBER (FROM CONSTRUCTION SHEET 4) [3]

*2. ASPHALT GRADE (SEE ASPHALT CODE-SHEET, TABLE A.16) [0 5]
(IF OTHER, SPECIFY) _____

*3. SOURCE (SEE SUPPLY CODE SHEET, TABLE A.14) [0 1]
(IF OTHER, SPECIFY) _____

4. SPECIFIC GRAVITY OF ASPHALT CEMENT [1.0 3 3]
(AASHTO T228)

ORIGINAL ASPHALT CEMENT PROPERTIES (If available from supplier)

5. VISCOSITY OF ASPHALT AT 140°F (Poises) [_ _ _ _ _ _.]
(AASHTO T202)

6. VISCOSITY OF ASPHALT AT 275°F (Centistokes) [_ _ _ _._ _]
(AASHTO T202)

7. PENETRATION AT 77°F (AASHTO T49) (Tenths of a mm) [_ _ _ _.]
(100 g., 5 sec.)

ASPHALT MODIFIERS (SEE TYPE CODE, A.15)

		TYPE	QUANTITY (%)
8.	MODIFIER #1	[_ _]	[_ _.]
9.	MODIFIER #2 (IF OTHER, SPECIFY) _____	[_ _]	[_ _.]

10. DUCTILITY AT 77°F (cm) [_ _ _.]
(AASHTO T51)

11. DUCTILITY AT 39.2°F (cm) [_ _._.]
(AASHTO T51)

12. TEST RATE FOR DUCTILITY MEASUREMENT AT 39.2°f (cm/Min) [_ _ _.]

13. PENETRATION AT 39.2°F (AASHTO T49) (Tenths of a mm) [_ _ _.]
(200 g., 60 sec.)

14. RING AND BALL SOFTENING POINT (AASHTO T53) (°F) [_ _ _.]

NOTE: If emulsified or cutback asphalt was used, enter "N" in the spaces for "Original Asphalt Cement Properties".

PREPARER _____ EMPLOYER _____ DATE _____

February 1992

PATB

SPS-2 CONSTRUCTION DATA SHEET 12 PLANT-MIXED ASPHALT BOUND LAYERS MIXTURE PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

ENTERED MAR 03 1997 J B

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*2. TYPE OF SAMPLES [__]
COMPACTED IN LABORATORY... 1 TAKEN FROM TEST SECTION... 2

*3. MAXIMUM SPECIFIC GRAVITY (NO AIR VOIDS) [2.540]
(AASHTO T209 OR ASTM D2041)

BULK SPECIFIC GRAVITY (ASTM D1188)

*4. MEAN [__.__ __ __] NUMBER OF TESTS [__ __.]
5. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
6. STD. DEV. [__.__ __ __]

ASPHALT CONTENT (PERCENT WEIGHT OF TOTAL MIX - AASHTO T164 OR ASTM D2172)

*7. MEAN [2.7 __ __] NUMBER OF SAMPLES [__ __.]
8. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
9. STD. DEV. [__.__ __ __]

PERCENT AIR VOIDS

*10. MEAN [__.__ __ __] NUMBER OF SAMPLES [__ __.]
11. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
12. STD. DEV. [__.__ __ __]

*13. VOIDS IN MINERAL AGGREGATE (Percent) [__ __.__]

*14. EFFECTIVE ASPHALT CONTENT (Percent) [__ __.__]

*15. MARSHALL STABILITY (lbs) (AASHTO T245 OR ASTM D1559) [__ __ __.__]

*16. NUMBER OF BLOWS [__ __]

*17. MARSHALL FLOW (Hundredths of an Inch) [__ __ __ __.]
(AASHTO T245 OR ASTM D1559)

*18. HVEEM STABILITY (AASHTO T246 OR ASTM D1561) [__ __ __.]

*19. HVEEM COHESIOMETER VALUE (GRAMS/25mm of Width) [__ __ __ __.]
(AASHTO T246 OR ASTM 1561)

*20. TYPE OF ANTISTRIPPING AGENT USED PERMATECH [01]
(SEE TYPE CODES, TABLE A.21) OTHER (SPECIFY) _____

*21. ANTISTRIPPING AGENT USED: LIQUID... 1 SOLID... 2 [1]

*22. AMOUNT OF ANTISTRIPPING AGENT USED (Percent) [__ 0.5]

(LIQUID: enter percent of asphalt cement weight SOLID: enter percent of aggregate weight.)

DATE _____

PATB

February 1992

SPS-2 CONSTRUCTION DATA SHEET 13 PLANT-MIXED ASPHALT BOUND LAYERS PLACEMENT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

ENTERED MAR 03 1997 J B.1

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [__ __-__ __-__ __]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [__ __-__ __-__ __]

*3 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Number
Plant 1	[__]	JonesMill, MisState	[__ __ __]	[__ __]	[__ __]
Plant 2	[__]	_____	[__ __ __]	[__ __]	[__ __]

Plant Type: Batch..... 1 Drum Mix.... 2 Other...3 Specify_____

4. MANUFACTURER OF ASPHALT CONCRETE PAVER _____

5. MODEL DESIGNATION OF ASPHALT CONCRETE PAVER _____

6. SINGLE PASS LAYDOWN WIDTH (Feet) [__ __.__]

7. PATB PLACEMENT LIFTS: Layer Number [__ 3]

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (disruptions, rain, equip. problems, etc.)_____

PREPARED EMPLOYER _____ DATE _____

PAT B

SPS-2 CONSTRUCTION DATA SHEET 14 PLANT-MIXED ASPHALT BOUND LAYERS COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [0 1-3 1-9 5]
*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [0 2-0 2-9 5]
*3. LAYER NUMBER [3]

*4. MIXING TEMPERATURE (°F) [_ _ _.]

5. LAYDOWN TEMPERATURES (°F)
Mean..... [_ _ _.]
Minimum..... [_ _ _.]
Standard Deviation... [_ _._]
Number of Tests ..... [_ _.]
Maximum..... [_ _ _.]

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press. (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem	_ _._				
7	B	Steel-Whl Tandem	_ _._				
8	C	Steel-Whl Tandem	_ _._				
9	D	Steel-Whl Tandem	_ _._				
10	E	Pneumatic-Tired	_ _._	_ _ _ _.			
11	F	Pneumatic-Tired	_ _._	_ _ _ _.			
12	G	Pneumatic-Tired	_ _._	_ _ _ _.			
13	H	Pneumatic-Tired	_ _._				
14	I	Single-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
15	J	Single-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
16	K	Single-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
17	L	Single-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
18	M	Double-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
19	N	Double-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
20	O	Double-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
21	P	Double-Drum Vibr.	_ _._		_ _ _ _.	._ _ _	_ _._
22	Q	Other -	_____				

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	_	_	_	_
24	Coverages	_ _.	_ _.	_ _.	_ _.
	INTERMEDIATE				
25	Roller Code (A-Q)	_	_	_	_
26	Coverages	_ _.	_ _.	_ _.	_ _.
	FINAL				
27	Roller Code (A-Q)	_	_	_	_
28	Coverages	_ _.	_ _.	_ _.	_ _.
29	Air Temperature (°F)	_ _ _.	_ _ _.	_ _ _.	_ _ _.
30	Compacted Thickness (In)	_._	_._	_._	_._
31	Curing Period (Days)	_ _._	_ _._	_ _._	_ _._

EMPLOYER DATE _____

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [15.0]

3. (RANDOM JOINT SPACING, IF ANY: None)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
- Round Dowels..... 1
- Aggregate Interlock..... 2
- Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.50]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
- Paint and/or Grease..... 1
- Plastic..... 2
- Monel..... 3
- Stainless Steel..... 4
- Epoxy..... 5
- Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
- Preplaced on Baskets..... 1
- Mechanically Installed..... 2
- Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base, Spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER [illegible] EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

ENTERED MAR 0 3 1997 J B.

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
   Sawed..... 1 Metal Insert.....3
   Plastic Insert..... 2
   Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
   Butt..... 1 Insert Weakened Plane..... 3
   Sawed Weakened Plane..... 2
   Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
   Butt..... 1 Insert Weakened Plane..... 3
   Sawed Weakened Plane..... 2
   Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3"..... [3.67]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12]

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
   Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
   Asphalt..... 2 Low-Modulus Silicone..... 4
   Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARED H. Peacock EMPLOYER BRE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

N/A

JPC

PREPARED [illegible] EMPLOYER BRE DATE 01/09/96

550 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds)..... [1 9 7 0.]

*3. Fine Aggregate (Pounds)..... [1 3 3 3.]

*4. Cement (Pounds)..... [_ 3 3 0.]

*5. Water (Pounds)..... [_ 2 1 2.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE 1 [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

	TYPE CODE		AMOUNT
*8. ADMIXTURE #1 TYPE C FLY ASH	[1 1]	58 LBS.	[_ 1 5.0]
*9. ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	4.4 oz. PER.CU.YD.	[_ _ 0.1]
*10. ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 oz. PER CU.YD.	[_ _ 0.3]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

COMPOSITION OF COARSE AGGREGATE

		TYPE	PERCENT
* 2.	JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.		[_]	[_ _ _.]
* 4.		[_]	[_ _ _.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel.....3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE (SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9) [_ _.]

COMPOSITION OF FINE AGGREGATE

		TYPE	PERCENT
* 6.	PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.		[_]	[_ _ _.]
* 8.		[_]	[_ _ _.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [_ _ _.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	_ _ _
1 1/2"....	_ _ _
1".....	_ _ _
7/8".....	_ _ _
3/4".....	1 0 0
5/8".....	_ _ _
1/2".....	_ 7 4
3/8".....	_ 3 4
No. 4.....	_ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	_ 9 2
No. 10....	_ _ _
No. 16....	_ 8 0
No. 30....	_ 5 4
No. 40....	_ _ _
No. 50....	_ 1 3
No. 80....	_ _ _
No. 100...	_ 0 2
No. 200...	_ _ _

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 _]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 _]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

ENTERED MAR 0 3 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [10-23-95]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [10-23-95]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [24.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [20]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

EMPLOYED RRE DATE 01/09/95

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1 Burlap-Polyethylene Blanket... 5
   Burlap Curing Blankets..... 2 Cotton Mat Curing..... 6
   Waterproof Paper Blankets..... 3 Hay..... 7
   White Polyethylene Sheeting... 4
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1 Grooved Float..... 4
   Broom..... 2 Astro Turf..... 5
   Burlap Drag..... 3 None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

ENTERED MAR 03 1997 J B

EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [1 1]

1. DATE PROFILE MEASURED (Month-Day-Year) [0 7 - 0 9 - 9 6]
2. PROFILOGRAPH TYPE Cox + McLaukin California... 1 Rainhart... 2 [1]
3. PROFILE INDEX (Inches/Mile) [2 . 6]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0 . 2 0]
6. CUTOFF HEIGHT (Inches) [0 . 3 0]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

   IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 1 - 2 0 - 9 5]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [0 1 . 2 2 . 9 6]
*11. REASON FOR GRINDING [6]
    Elimination of Faulting... 1 Elimination of Slab Warping... 2
    Improve Skid Resistance... 3
    Restoration of Transverse Drainage Slope... 4
    Correction of Construction Deficiencies...5
    Other (Specify)... 6 To meet profile spec
12. AVERAGE DEPTH OF CUT (Inches) [_ . _ _]
13. CUTTING HEAD WIDTH (Inches) [_ _ _ . _ _]
14. AVERAGE GROOVE WIDTH (Inches) [_ . _]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [_ . _]

ENTERED MAR 03 1997 J. B.

Post-it® Fax Note 7671

To Boon Thian	Date 12/19/96 # of pages ▶ 1
Co./Dept.	From Amy Simpson
Phone #	Co
Fax #	Phone #
	Fax #

PREPARED Jane D. Dunn EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARED _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 2 GEOMETRIC, SHOULDER AND DRAINAGE INFORMATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 1 M] * TEST SECTION NO. [1 2]

ENTERED MAR 0 3 1997 J B

		INSIDE SHOULDER	OUTSIDE SHOULDER
* 1.	LANE WIDTH (Feet)		[14.]
2.	MONITORING SITE LANE NUMBER (LANE 1 IS OUTSIDE LANE, NEXT TO SHOULDER LANE 2 IS NEXT TO LANE 1, ETC.)		[1.]
	SHOULDER DATA		
* 3.	SHOULDER SURFACE TYPE Turf... 1 Granular.... 2 Asphalt Concrete... 3 Concrete... 4 Surface Treatment... 5 Other (Specify)... 6 _____	[3.]	[3.]
* 4.	TOTAL SHOULDER WIDTH (Feet)	[4.]	[8.]
* 5.	PAVED SHOULDER WIDTH (Feet)	[2.]	[8.]
6.	SHOULDER BASE TYPE (CODES-TABLE A.6)	[23.]	[23.]
7.	SHOULDER SURFACE THICKNESS (Inches)	[1.5]	[1.5]
8.	SHOULDER BASE THICKNESS (Inches)	[9.5]	[9.5]
* 9.	SUBSURFACE DRAINAGE TYPE No Subsurface Drainage... 1 Longitudinal Drains... 2 Transverse Drains... 3 Drainage Blanket... 4 Well System... 5 Drainage Blanket with Longitudinal Drains... 6 Other (Specify)... 7 _____		6 [~~4~~.] ZWD 3/5/97
*10.	SUBSURFACE DRAINAGE LOCATION Continuous Along Test Section... 1 Intermittent... 2		[1.]
11.	DIAMETER OF LONGITUDINAL DRAINPIPES (Inches)		[4.0]
12.	SPACING OF LATERALS (Feet)		[300.]

PREPARER dPeach EMPLOYER BRE DATE 02/19/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 4 LAYER DESCRIPTIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

*1 LAYER NUMBER	*2 LAYER DESCRIPTION	*3 MATERIAL TYPE CLASS	*4 LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE(7)	[5 3]				
2	[0 6]	[2 3]	[4.0]			
3	[0 5]	[3 1]	[3.8]	3.1	4.6	0.3
4	[0 3]	[0 4]	[10.9]	10.1	12.0	0.4
5	[ ]	[ ]	[ ]			
6	[ ]	[ ]	[ ]			
7	[ ]	[ ]	[ ]			
8	[ ]	[ ]	[ ]			
9	[ ]	[ ]	[ ]			
10	[ ]	[ ]	[ ]			

*5 DEPTH BELOW SURFACE TO "RIGID" LAYER (Feet) [.]
(Rock, Stone, Dense Shale)

NOTES:

1. Layer 1 is the subgrade soil, the highest numbered layer is the pavement surface.

2. Layer description codes:

Overlay.....01	Base Layer.....05	Porous Friction Course..09
Seal/Tack Coat.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface).04	Interlayer.....08	

3. The material type classification codes are presented in Tables A.5, A.6, A.7 and A.8 of the Data Collection Guide for Long Term Pavement Performance Studies, dated January 17, 1990 (Appendix B of SPS-2 Data Collection Guide).

4. Enter the average thickness of each layer and the minimum, maximum and standard deviation of the thickness measurements, if known.

PREPARED BY R Peacock EMPLOYER BRE DATE 01/04/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [0 5] * SPS PROJECT CODE [0 0 2] * TEST SECTION NO. [1 2]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES)			
		DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
0-50	0	— — . —	3.8	— — . —	11.2
	36	— — . —	3.8	— — . —	10.9
	72	— — . —	4.1	— — . —	10.6
	108	— — . —	3.7	— — . —	10.6
	144	— — . —	4.3	— — . —	10.4
0+00	0	— — . —	3.7	— — . —	10.7
	36	— — . —	3.8	— — . —	10.1
	72	— — . —	4.0	— — . —	10.2
	108	— — . —	3.8	— — . —	10.4
	144	— — . —	4.2	— — . —	10.4
0+50	0	— — . —	4.1	— — . —	10.7
	36	— — . —	4.1	— — . —	10.8
	72	— — . —	4.0	— — . —	10.9
	108	— — . —	3.8	— — . —	11.2
	144	— — . —	3.8	— — . —	11.5
1+00	0	— — . —	3.7	— — . —	10.3
	36	— — . —	3.7	— — . —	10.6
	72	— — . —	3.5	— — . —	10.8
	108	— — . —	3.4	— — . —	10.9
	144	— — . —	3.8	— — . —	10.9
1+50	0	— — . —	3.5	— — . —	11.5
	36	— — . —	3.5	— — . —	11.6
	72	— — . —	3.4	— — . —	11.8
	108	— — . —	3.5	— — . —	12.0
	144	— — . —	4.1	— — . —	11.8
2+00	0	— — . —	3.7	— — . —	10.8
	36	— — . —	4.0	— — . —	10.8
	72	— — . —	3.6	— — . —	11.0
	108	— — . —	3.2	— — . —	11.3
	144	— — . —	3.7	— — . —	11.0
2+50	0	— — . —	4.1	— — . —	10.7
	36	— — . —	4.2	— — . —	10.8
	72	— — . —	3.8	— — . —	11.0
	108	— — . —	4.3	— — . —	11.4
	144	— — . —	4.3	— — . —	11.4
LAYER NUMBER[1]		— —	03	— —	04

[1] from Construction Data Sheet 4

PREPARER J. Pearsch EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [05] * SPS PROJECT CODE [10] * TEST SECTION NO. [12]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ___ OF ___

STATION NUMBER	OFFSET (Inches)	LAYER THICKNESS (INCHES) DENSE GRADED AGGREGATE BASE	PERMEABLE ASPHALT TREATED BASE	LEAN CONCRETE BASE	PCC SURFACE
3+00	0		3.6		10.7
	36		3.7		10.8
	72		3.4		10.8
	108		3.3		11.2
	144		3.4		11.2
3+50	0		3.4		10.7
	36		3.5		10.8
	72		3.5		11.0
	108		3.4		11.3
	144		4.0		11.3
4+00	0		4.2		10.6
	36		4.0		10.7
	72		3.8		10.6
	108		3.8		10.7
	144		3.5		11.0
4+50	0		3.5		10.7
	36		3.1		11.0
	72		3.1		11.3
	108		3.4		11.3
	144		3.4		11.8
5+00	0		3.8		10.9
	36		4.0		10.9
	72		4.2		11.0
	108		4.0		11.0
	144		4.3		11.0
5+50	0		4.1		10.7
	36		3.8		11.0
	72		4.2		10.7
	108		4.6		10.6
	144		4.3		11.0
___+___	___		___		___
	___		___		___
	___		___		___
	___		___		___
	___		___		___
LAYER NUMBER[1]		___	03	___	04

[1] from Construction Data Sheet 4

PREPARER A. Peacock EMPLOYER BRE DATE 01/05/96

ENTERED MAR 03 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 6 SUBGRADE PREPARATION	* STATE CODE [0 5] * SPS PROJECT CODE [0 9 2] * TEST SECTION NO. [0 1]

*1. SUBGRADE PREPARATION BEGAN (Month-Day-Year) [07-01-95]

*2. SUBGRADE PREPARATION COMPLETED (Month-Day-Year) [10-16-95]

PRIMARY COMPACTION EQUIPMENT (Single wheel Vibratory -Steel Wheel

*3. CODE TYPE [4]

COMPACTION EQUIPMENT TYPE CODES
Sheepsfoot... 1 Pneumatic Tired... 2 Steel Wheel Tandem... 3
Single Drum Vibr.... 4 Double Drum Vibr.... 5
Other (Specify)... 6 _____

*4. GROSS WEIGHT (Tons) [2.0]

	TYPE	PERCENT
*5. STABILIZING AGENT 1	[ ]	[N/A]
*6. STABILIZING AGENT 2	[ ]	[N/A]

STABILIZING AGENT TYPE CODES
Portland Cement... 1 Lime... 2 Fly Ash, Class C... 3
Fly Ash, Class N... 4
Other (Specify)... 5 Geotextile Fabric under the stone

*7. TYPICAL LIFT THICKNESS (Inches) [N/A]
(For Fill Sections Only)

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) Nothing Significant

PREPARED DLP EMPLOYER BRE DATE 01/09/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 7 CUT-FILL SECTION LOCATIONS	* STATE CODE [0 5] * SPS PROJECT CODE [0 7] * TEST SECTION NO. [1 2]

ORDER	*1 CUT-FILL[1]	REFERENCE PROJECT STATION NUMBER		*4 TEST SECTION NUMBER [2]
		*2 START	*3 END	
1		0 + 0 0	+	
2		+	+	
3		+	+	
4		+	+	
5		+	+	
6		+	+	
7		+	+	
8		+	+	
9		+	+	
10		+	+	
11		+	+	
12		+	+	
13		+	+	
14		+	+	
15		+	+	
16		+	+	
17		+	+	
18		+	+	
19		+	+	
20		+	+	
21		+	+	
22		+	+	
23		+	+	
24		+	+	
25		+	+	

NOTES:

1. Indicate the type of subgrade section with one of the following:

   Cut... 1 Fill... 2

2. A given Test Section No. will be repeated if both cut and fill sections exist within the test section.

PREPARER _____ EMPLOYER _____ DATE _____

SPS-2 CONSTRUCTION DATA SHEET 8 SUBGRADE EXCAVATION AND BACKFILLING SKETCH	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 ~~2~~]

PREPARED EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 9 UNBOUND AGGREGATE BASE MATERIAL PLACEMENT	* STATE CODE [05] * SPS PROJECT CODE [07] * TEST SECTION NO. [12]

ENTERED MAR 03 1997 J B

*1. UNBOUND BASE MATERIAL PLACEMENT BEGAN (Month-Day-Year) [07-31-95]

*2. UNBOUND BASE MATERIAL PLACEMENT COMPLETED (Month-Day-Year) [09-30-95]

*3. LAYER NUMBER (From Sheet 4) [2]

PRIMARY COMPACTION EQUIPMENT

*4. CODE TYPE [3]

COMPACTION TYPE CODES
Pneumatic - Tired... 1 Steel Wheel Tandem... 2 Single Drum Vibr.... 3
Double Drum Vibr.... 4
Other (Specify)... 5 Final Passes sometimes w/ Pneumatic - Ingram

*5. GROSS WEIGHT (Tons) [20]

*6. LIFT THICKNESSES

Nominal First Lift Placement Thickness (Inches) [4.0]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

Nominal Fourth Lift Placement Thickness (Inches) [__.__]

NOTE: Density Data is recorded on Sampling Data Sheet 8-1

7. SIGNIFICANT EVENTS DURING CONSTRUCTION (DISRUPTIONS, RAIN, EQUIPMENT PROBLEMS, ETC.) _____

Took out 4" of old stone base, replaced w/ recycled then followed w/ 4" lift @ a time

PREPARER JP LP EMPLOYER BRE DATE 01/09/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 10 PLANT-MIXED ASPHALT BOUND LAYERS AGGREGATE PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 0] * TEST SECTION NO. [1 2]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. Jones Mill, Mid State, Minus 5/8	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone... 1 Manufactured gravel... 2 Crushed Gravel... 3
Crushed Slag..... 4 Manufactured Lightweight..... 5
Other (Specify)_____ 6

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 5.	[__]	[__ __ __.]
* 6.	[__]	[__ __ __.]
* 7.	[__]	[__ __ __.]

Natural Sand... 1
Crushed or Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

* 8. TYPE OF MINERAL FILLER [__]
Stone Dust... 1 Hydrated Lime... 2 Portland Cement... 3
Fly Ash... 4 Other (Specify)... 5 _____

BULK SPECIFIC GRAVITIES:

* 9. COARSE AGGREGATE (AASHTO T85 or ASTM C127) [__.__ __ __]

*10. FINE AGGREGATE (AASHTO T84 or ASTM C128) [__.__ __ __]

*11. MINERAL FILLER (AASHTO T100 or ASTM D854) [__.__ __ __]

*12. AGGREGATE COMBINATION (CALCULATED) [__.__ __ __]

13. EFFECTIVE SPECIFIC GRAVITY OF AGGREGATE COMBINATION (CALCULATED) [__.__ __ __]

AGGREGATE DURABILITY TEST RESULTS (CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
14.	Coarse	[__ __]	[__ __ __.__]
15.	Coarse	[__ __]	[__ __ __.__]
16.	Coarse	[__ __]	[__ __ __.__]
17.	Coarse and Fine - Combined	[__ __]	[__ __ __.__]

18. POLISH VALUE OF COARSE AGGREGATES SURFACE LAYER ONLY (AASHTO T279, ASTM D3319) [__ __]

EMPLOYER _____ DATE _____

February 1992

SPS-2 CONSTRUCTION DATA SHEET 11 PLANT-MIXED ASPHALT BOUND LAYERS ASPHALT CEMENT PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 0]

ENTERED MAR 03 1997 J B

*1. LAYER NUMBER (FROM CONSTRUCTION SHEET 4) [3]

*2. ASPHALT GRADE (SEE ASPHALT CODE-SHEET, TABLE A.16) [0 5]
(IF OTHER, SPECIFY) _____

*3. SOURCE (SEE SUPPLY CODE SHEET, TABLE A.14) [0 7]
(IF OTHER, SPECIFY) _____

4. SPECIFIC GRAVITY OF ASPHALT CEMENT [1.0 3 3]
(AASHTO T228)

ORIGINAL ASPHALT CEMENT PROPERTIES (If available from supplier)

5. VISCOSITY OF ASPHALT AT 140°F (Poises) [_ _ _ _ _ _.]
(AASHTO T202)

6. VISCOSITY OF ASPHALT AT 275°F (Centistokes) [_ _ _ _._ _]
(AASHTO T202)

7. PENETRATION AT 77°F (AASHTO T49) (Tenths of a mm) [_ _ _ _.]
(100 g., 5 sec.)

ASPHALT MODIFIERS (SEE TYPE CODE, A.15)

		TYPE	QUANTITY (%)
8.	MODIFIER #1	[_ _]	[_ _.]
9.	MODIFIER #2 (IF OTHER, SPECIFY) _____	[_ _]	[_ _.]

10. DUCTILITY AT 77°F (cm) [_ _ _.]
(AASHTO T51)

11. DUCTILITY AT 39.2°F (cm) [_ _._.]
(AASHTO T51)

12. TEST RATE FOR DUCTILITY MEASUREMENT [_ _ _.]
AT 39.2°f (cm/Min)

13. PENETRATION AT 39.2°F (AASHTO T49) (Tenths of a mm) [_ _ _.]
(200 g., 60 sec.)

14. RING AND BALL SOFTENING POINT (AASHTO T53) (°F) [_ _ _.]

NOTE: If emulsified or cutback asphalt was used, enter "N" in the spaces for "Original Asphalt Cement Properties".

PREPARER ___ EMPLOYER _____ DATE _____

February 1992

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 12 PLANT-MIXED ASPHALT BOUND LAYERS MIXTURE PROPERTIES	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [3]

*2. TYPE OF SAMPLES [__]
COMPACTED IN LABORATORY... 1 TAKEN FROM TEST SECTION... 2

*3. MAXIMUM SPECIFIC GRAVITY (NO AIR VOIDS) [2.540]
(AASHTO T209 OR ASTM D2041)

BULK SPECIFIC GRAVITY (ASTM D1188)

*4. MEAN [__.__ __ __] NUMBER OF TESTS [__ __.]
5. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
6. STD. DEV. [__.__ __ __]

ASPHALT CONTENT (PERCENT WEIGHT OF TOTAL MIX - AASHTO T164 OR ASTM D2172)

*7. MEAN [2.7 __ __] NUMBER OF SAMPLES [__ __.]
8. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
9. STD. DEV. [__.__ __ __]

PERCENT AIR VOIDS

*10. MEAN [__.__ __ __] NUMBER OF SAMPLES [__ __.]
11. MINIMUM [__.__ __ __] MAXIMUM [__.__ __ __]
12. STD. DEV. [__.__ __ __]

*13. VOIDS IN MINERAL AGGREGATE (Percent) [__ __.__]

*14. EFFECTIVE ASPHALT CONTENT (Percent) [__ __.__]

*15. MARSHALL STABILITY (lbs) (AASHTO T245 OR ASTM D1559) [__ __ __.__]

*16. NUMBER OF BLOWS [__ __]

*17. MARSHALL FLOW (Hundredths of an Inch) [__ __ __.__]
(AASHTO T245 OR ASTM D1559)

*18. HVEEM STABILITY (AASHTO T246 OR ASTM D1561) [__ __ __.]

*19. HVEEM COHESIOMETER VALUE (GRAMS/25mm of Width) [__ __ __ __.]
(AASHTO T246 OR ASTM 1561)

*20. TYPE OF ANTISTRIPPING AGENT USED Permatech [0 1]
(SEE TYPE CODES, TABLE A.21) OTHER (SPECIFY) _____

*21. ANTISTRIPPING AGENT USED: LIQUID... 1 SOLID... 2 [1]

*22. AMOUNT OF ANTISTRIPPING AGENT USED (Percent) [__ 0.5]

(LIQUID: enter percent of asphalt cement weight SOLID: enter percent of aggregate weight.)

DATE

February 1992

SPS-2 CONSTRUCTION DATA SHEET 13 PLANT-MIXED ASPHALT BOUND LAYERS PLACEMENT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [0 1 - 1 2 - 9 5]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 1 5 - 9 5]

*3 ASPHALT CONCRETE PLANT AND HAUL

	Type	Name	Haul Distance (Mi)	Time (Min)	Layer Number
Plant 1	[__]	_____	[__ __ __]	[__ __]	[__ __]
Plant 2	[__]	_____	[__ __ __]	[__ __]	[__ __]

Plant Type: Batch..... 1 Drum Mix.... 2 Other...3 Specify_____

4. MANUFACTURER OF ASPHALT CONCRETE PAVER _____

5. MODEL DESIGNATION OF ASPHALT CONCRETE PAVER _____

6. SINGLE PASS LAYDOWN WIDTH (Feet) [__ __.__]

7. PATB PLACEMENT LIFTS: Layer Number [__ __]

Nominal First Lift Placement Thickness (Inches) [__.__]

Nominal Second Lift Placement Thickness (Inches) [__.__]

Nominal Third Lift Placement Thickness (Inches) [__.__]

8. SIGNIFICANT EVENTS DURING CONSTRUCTION (disruptions, rain, equip. problems, etc.)_____

PREPARER CMD EMPLOYER _____ DATE 2/27/97

SPS-2 CONSTRUCTION DATA SHEET 14 PLANT-MIXED ASPHALT BOUND LAYERS COMPACTION DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 4] * TEST SECTION NO. [1 1]

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [0 1-1 2-9 5]
*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [0 1-1 5-9 5]
*3. LAYER NUMBER [2]

*4. MIXING TEMPERATURE (°F) [_ _ _.]

5. LAYDOWN TEMPERATURES (°F)
Mean..... [_ _ _.]
Minimum..... [_ _ _.]
Standard Deviation... [_ _.__]
Number of Tests ..... [_ _.]
Maximum..... [_ _ _.]

ROLLER DATA

	Roller Code #	Roller Description	Gross Wt (Tons)	Tire Press. (psi)	Frequency (Vibr./Min)	Amplitude (Inches)	Speed (mph)
6	A	Steel-Whl Tandem	_ _.__				
7	B	Steel-Whl Tandem	_ _.__				
8	C	Steel-Whl Tandem	_ _.__				
9	D	Steel-Whl Tandem	_ _.__				
10	E	Pneumatic-Tired	_ _.__	_ _ _ _.			
11	F	Pneumatic-Tired	_ _.__	_ _ _ _.			
12	G	Pneumatic-Tired	_ _.__	_ _ _ _.			
13	H	Pneumatic-Tired	_ _.__				
14	I	Single-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
15	J	Single-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
16	K	Single-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
17	L	Single-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
18	M	Double-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
19	N	Double-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
20	O	Double-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
21	P	Double-Drum Vibr.	_ _.__		_ _ _ _.	_ _ _	_ _.__
22	Q	Other					

	COMPACTION DATA	First Lift	Second Lift	Third Lift	Fourth Lift
	BREAKDOWN				
23	Roller Code (A-Q)	_	_	_	_
24	Coverages	_ _.	_ _.	_ _.	_ _.
	INTERMEDIATE				
25	Roller Code (A-Q)	_	_	_	_
26	Coverages	_ _.	_ _.	_ _.	_ _.
	FINAL				
27	Roller Code (A-Q)	_	_	_	_
28	Coverages	_ _.	_ _.	_ _.	_ _.
29	Air Temperature (°F)	_ _ _.	_ _ _.	_ _ _.	_ _ _.
30	Compacted Thickness (In)	_.__	_.__	_.__	_.__
31	Curing Period (Days)	_ _.__	_ _.__	_ _.__	_ _.__

PREPARED ZWD. EMPLOYER BRF DATE 2-27-97

February 1992

SPS-2 CONSTRUCTION DATA SHEET 15 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

ENTERED MAR 0 3 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

* 2. AVERAGE CONTRACTION JOINT SPACING (Feet) [_ 15.0]

3. (RANDOM JOINT SPACING, IF ANY: None _____ _____)

* 4. SKEWNESS OF JOINTS (ft/lane) [0.0]

* 5. TRANSVERSE CONTRACTION JOINT LOAD TRANSFER SYSTEM [1]
   - Round Dowels..... 1
   - Aggregate Interlock..... 2
   - Other (Specify) _____ 3

* 6. ROUND DOWEL DIAMETER (Inches) [1.50]

* 7. DOWEL SPACING (Inches) [12.]

8. DISTANCE OF NEAREST DOWEL FROM OUTSIDE LANE-SHOULDER EDGE (Inches) [_ 6.0]

9. DOWEL LENGTH (Inches) [18.]

10. DOWEL COATING [1]
   - Paint and/or Grease..... 1
   - Plastic..... 2
   - Monel..... 3
   - Stainless Steel..... 4
   - Epoxy..... 5
   - Other (Specify) _____ 6

11. METHOD USED TO INSTALL MECHANICAL LOAD TRANSFER DEVICES [1]
   - Preplaced on Baskets..... 1
   - Mechanically Installed..... 2
   - Other (Specify) _____ 3

12. DOWEL ALIGNMENT CHECKED BEFORE PLACEMENT (Y/N) [Y]

13. DOWEL ALIGNMENT CHECKED AFTER PLACEMENT (Y/N) [Y]

If Yes, describe method used pinned to base, spot checked
(e.g. Pachometer, Ground Penetrating Radar)

PREPARER MPLP EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 16 PORTLAND CEMENT CONCRETE LAYERS-JOINT DATA CONT'D	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

ENTERED MAR 03 1997 J B

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

* 2. METHOD USED TO FORM TRANSVERSE JOINTS [1]
Sawed..... 1 Metal Insert.....3
Plastic Insert..... 2
Other (Specify) _____ 4

* 3. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

* 4. TYPE OF SHOULDER-TRAFFIC LANE JOINT [2]
Butt..... 1 Insert Weakened Plane..... 3
Sawed Weakened Plane..... 2
Other (Specify) _____ 4

*5. AVERAGE DEPTH OF SAWCUT, FROM MEASUREMENTS (Inches)..... TD"/3." [3.66]

*6. TIME INTERVAL BETWEEN CONCRETE PLACEMENT AND SAWCUT (HOURS)..... [<12

7. TRANSVERSE JOINT SEALANT TYPE (AS BUILT) [4]
Preformed (Open Web)..... 1 Rubberized Asphalt..... 3
Asphalt..... 2 Low-Modulus Silicone..... 4
Other (Specify) _____ 5

TRANSVERSE JOINT SEALANT RESERVOIR (AS BUILT)

8. WIDTH, (Inches)..... [0.5]

9. DEPTH, (Inches)..... [0.5]

LONGITUDINAL JOINT SEALANT RESERVOIR (AS BUILT)

10. WIDTH, (Inches)..... [0.38]

11. DEPTH, (Inches)..... [0.50]

12. BETWEEN LANE TIE BAR DIAMETER (Inches) [0.63]

13. BETWEEN LANE TIE BAR LENGTH (Inches) [18.]

14. BETWEEN LANE TIE BAR SPACING (Inches) [30.0]

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (AS BUILT)

15. WIDTH, (Inches)..... [N/A]

16. DEPTH, (Inches)..... [N/A]

PREPARER MP. LP EMPLOYER BRE DATE 01/08/96

February 1992

SPS-2 CONSTRUCTION DATA SHEET 17 PORTLAND CEMENT CONCRETE LAYERS REINFORCING STEEL DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [__]

* 2. TYPE OF REINFORCING [__]
   - Deformed Bars..... 1
   - Welded Wire Fabric..... 2
   - Other (Specify)_____ 3

* 3. TRANSVERSE BAR DIAMETER (Inches) [__.__ __]

* 4. TRANSVERSE BAR SPACING (Inches) [__ __.__]

* 5. LONGITUDINAL BAR DIAMETER (Inches) [__.__ __]

* 6. DESIGN PERCENTAGE OF LONGITUDINAL STEEL (%) [__.__ __]

* 7. DEPTH TO REINFORCEMENT FROM SLAB SURFACE (Inches) [__.__]

8. LONGITUDINAL BAR SPACING (Inches) [__ __.__]

9. YIELD STRENGTH OF REINFORCING (ksi) [__ __.__]

10. METHOD USED TO PLACE REINFORCEMENT [__]
   - Preset on Chairs..... 1
   - Mechanically..... 2
   - Between Layers of Concrete..... 3
   - Other (Specify)_____ 4

N/A

JPC

PREPARER NP LP EMPLOYER BRE DATE 01/08/96

900 PSI

SPS-2 CONSTRUCTION DATA SHEET 18 PORTLAND CEMENT CONCRETE LAYERS - MIXTURE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

*1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4.]

MIX DESIGN (OVEN DRIED WEIGHT - PER CUBIC YARD)

*2. Coarse Aggregate (Pounds) ..... [1 8 4 2.]

*3. Fine Aggregate (Pounds) ..... [_ 9 2 4.]

*4. Cement (Pounds) ..... [_ 7 1 9.]

*5. Water (Pounds) ..... [_ 2 7 1.]

*6. TYPE CEMENT USED (See Cement Type Codes, Table A.11) TYPE I [4 1]
(If Other, Specify _____)

*7. ALKALI CONTENT OF CEMENT, (PERCENT BY WEIGHT OF CEMENT) [_ _._]

ADMIXTURES (PERCENT BY WEIGHT OF CEMENT)

		TYPE CODE		AMOUNT
*8.	ADMIXTURE #1 TYPE C FLY ASH	[1 1]	127 LBS.	[_ 1 5.0]
*9.	ADMIXTURE #2 AIR-ENTRAINMENT	[0 8]	11 OZ. PER CU. YD.	[_ _ 0.1]
*10.	ADMIXTURE #3 WATER REDUCING	[0 1]	15.5 OZ. PER CU. YD.	[_ _ 0.4]

(See Cement Admixture Codes, Table A.12)
(If Other, Specify _____)

AGGREGATE DURABILITY TEST RESULTS
(SEE DURABILITY TEST TYPE CODES, TABLE A.13)

	TYPE OF AGGREGATE	TYPE OF TEST	RESULTS
11.	Coarse	[_ _]	[_ _ _._]
12.	Coarse	[_ _]	[_ _ _._]
13.	Coarse	[_ _]	[_ _ _._]
14.	Coarse and Fine	[_ _]	[_ _ _._]

PREPARER [signature] EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

SPS-2 CONSTRUCTION DATA SHEET 19 PORTLAND CEMENT CONCRETE LAYERS MIXTURE DATA (CONTINUED)	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

* 1. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

COMPOSITION OF COARSE AGGREGATE	TYPE	PERCENT
* 2. JONES MILL QUARRY, #67 STONE	[1]	[1 0 0.]
* 3.	[__]	[__ __ __.]
* 4.	[__]	[__ __ __.]

Crushed Stone.... 1 Manufactured gravel..... 2 Crushed Gravel..... 3
Crushed Slag..... 4 Lightweight..... 5 Recycled Concrete... 6
Other (Specify)_____ 7

* 5. GEOLOGIC CLASSIFICATION OF COARSE AGGREGATE [__ __.]
(SEE GEOLOGIC CLASSIFICATION CODES, TABLE A.9)

COMPOSITION OF FINE AGGREGATE	TYPE	PERCENT
* 6. PINE BLUFF, S25 SAND	[1]	[1 0 0.]
* 7.	[__]	[__ __ __.]
* 8.	[__]	[__ __ __.]

Natural Sand... 1
Crushed, Manufactured Sand (From Crushed Gravel or Stone)...2
Recycled Concrete... 3 Other (Specify)_____ 4

9. INSOLUBLE RESIDUE, PERCENT (ASTM D3042) [__ __ __.]

10. GRADATION OF COARSE AGGREGATE

Sieve Size	% Passing
2".....	__ __ __
1 1/2"....	__ __ __
1".....	__ __ __
7/8".....	__ __ __
3/4".....	1 0 0
5/8".....	__ __ __
1/2".....	__ 7 4
3/8".....	__ 3 4
No. 4.....	__ 0 1

11. GRADATION OF FINE AGGREGATE

Sieve Size	% Passing
No. 8.....	__ 9 2
No. 10....	__ __ __
No. 16....	__ 8 0
No. 30....	__ 5 4
No. 40....	__ __ __
No. 50....	__ 1 3
No. 80....	__ __ __
No. 100...	__ 0 2
No. 200...	__ __ __

BULK SPECIFIC GRAVITIES:

12. Coarse Aggregate (AASHTO T85 or ASTM C127) [2.6 9 __]

13. Fine Aggregate (AASHTO T84 or ASTM C128) [2.6 2 __]

PREPARER J. Peacock EMPLOYER BRE DATE 01/08/96

ENTERED MAR 03 1997 J B

February 1992

SPS-2 CONSTRUCTION DATA SHEET 20 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA	* STATE CODE [6 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 2]

ENTERED MAR 03 1997 J B

*1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [1 0-1 2-9 5]

*2. DATE PAVING OPERATIONS COMPLETED (Month-Day-Year) [1 0-1 2-9 5]

*3. LAYER NUMBER (FROM CONSTRUCTION DATA SHEET 4) [4]

*4. CONCRETE MIX PLANT AND HAUL

	Name	Haul Distance (Mi)	Time (Min)
Plant 1	Ballenger Plant	[3]	[10]
Plant 2		[ ]	[ ]
Plant 3		[ ]	[ ]

*5. PAVER TYPE [1]
Slip Form Paver.... 1 Side Form... 2
Other (Specify) _____ 3

6. PAVER MANUFACTURER AND MODEL NUMBER GOMACO 2800

7. SPREADER TYPE (if applicable) MAXON - Bucket Spreader

8. SPREADER MANUFACTURER AND MODEL NUMBER MAXON - Dump Crete Crawler Spreader

9. WIDTH PAVED IN ONE PASS (Feet) [26.0]

10. DOWEL PLACEMENT METHOD [2]
Dowel Bar Inserter (DBI)..... 1 Dowel Basket..... 2

11. NUMBER OF VIBRATORS [18]

12. VIBRATOR SPACING (Inches) [18]

13. DEPTH OF VIBRATORS BELOW SURFACE (Inches) 1 Foot in Grout box [2.0]

14. ADDITIONAL VIBRATION APPLIED Tamping Bars

---- ID I P EMPLOYER RPE DATE 01/06/95

February 1992

SPS-2 CONSTRUCTION DATA SHEET 21 PORTLAND CEMENT CONCRETE LAYERS PLACEMENT DATA (CONTINUED)	* STATE CODE [05] * SPS PROJECT CODE [02] * TEST SECTION NO. [12]

ENTERED MAR 03 1997 J. B.

1. CONSOLIDATION OF MATERIALS [✓]
   Internal Vibrators... 1 Vibrating Screeds... 2 Troweling... 3
   Rolling... 4 Tamping... 5
   Other (Specify)... 6 _____

2. FINISHING [3]
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)... 4 Finished w/ Hand Trowling

3. CURING [✓]
   Membrane Curing Compound..... 1 Burlap-Polyethylene Blanket... 5
   Burlap Curing Blankets..... 2 Cotton Mat Curing..... 6
   Waterproof Paper Blankets..... 3 Hay..... 7
   White Polyethylene Sheeting... 4
   Other (Specify)_____ 8

4. TEXTURING [✓]
   Tine..... 1 Grooved Float..... 4
   Broom..... 2 Astro Turf..... 5
   Burlap Drag..... 3 None..... 6
   Other (Specify) Used Burlap Drag Prior to fining 7

INSPECTOR 4010 EMPLOYER BRE DATE 01/08/96

SPS-2 CONSTRUCTION DATA SHEET 22 PORTLAND CEMENT CONCRETE SURFACE LAYER PROFILE DATA	* STATE CODE [0 5] * SPS PROJECT CODE [0 2] * TEST SECTION NO. [1 1]

1. DATE PROFILE MEASURED (Month-Day-Year) [0 7 - 0 9 - 9 6]
2. PROFILOGRAPH TYPE Cox + McLaukin California... 1 Rainhart... 2 [1]
3. PROFILE INDEX (Inches/Mile) [4.0]
4. INTERPRETATION METHOD Manual.. 1 Mechanical.. 2 Computer.. 3 [1]
5. HEIGHT OF BLANKING BAND (Inches) [0.2 0]
6. CUTOFF HEIGHT (Inches) [0.3 0]
7. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) [No]
8. WAS SURFACE PROFILE CORRECTED BY DIAMOND GRINDING? (YES, NO) [Yes]

IF YES COMPLETE THE FOLLOWING:

9. DATE DIAMOND GRINDING OPERATIONS BEGAN (Month-Day-Year) [1 1 - 2 0 - 9 5]
10. DATE DIAMOND GRINDING OPERATIONS COMPLETED (Month-Day-Year) [0 1 - 2 2 - 9 6]

*11. REASON FOR GRINDING [6]
Elimination of Faulting... 1 Elimination of Slab Warping... 2
Improve Skid Resistance... 3
Restoration of Transverse Drainage Slope... 4
Correction of Construction Deficiencies...5
Other (Specify)... 6 To meet profile spec

12. AVERAGE DEPTH OF CUT (Inches) [_ . _ _]
13. CUTTING HEAD WIDTH (Inches) [_ _ _ . _ _]
14. AVERAGE GROOVE WIDTH (Inches) [_ . _]
15. AVERAGE SPACING BETWEEN BLADES (Inches) [_ . _]

ENTERED 03 1997 J B

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To Boon Thian	Date 12/19/96	# of pages ▶ 1
Co./Dept.	From Amy Simpson	
Phone #	Co	
Fax #	Phone #	
	Fax #	

PREPARER [signature] EMPLOYER BRE DATE 1-29-97

SPS-2 CONSTRUCTION DATA SHEET 27 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE * SPS PROJECT CODE * TEST SECTION NO.	05 02 14

Provide any miscellaneous comments and notes concerning construction operations which may have an influence on the ultimate performance of the test sections or which may cause undesired performance differences to occur between test sections. Also include any quality control measurements or data for which space is not provided on other forms. Provide an indication of the basis for such measurements, such as an ASTM, AASHTO, or Agency standard test designation.

PREPARER _____ EMPLOYER _____ DATE _____

APPENDIX E

PHOTOGRAPHS

		Page №.
1	Preconstruction Augering	E.2
2	Dowel Assembly	E.2
3	Construction "Laydown" Process	E.3
4	Construction Finishing Process	E.3
5	Removal of Concrete for Dowel Assembly Replacement, 050208	E.4
6	Slump Test	E.4
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9	SHRP Experiment Sign	E.6
10	Concrete Plant	E.6
11	Postconstruction Rod and Level Shots	E.7
12	Postconstruction 4″ PCC Coring	E.7

Photo 1. Preconstruction Augering

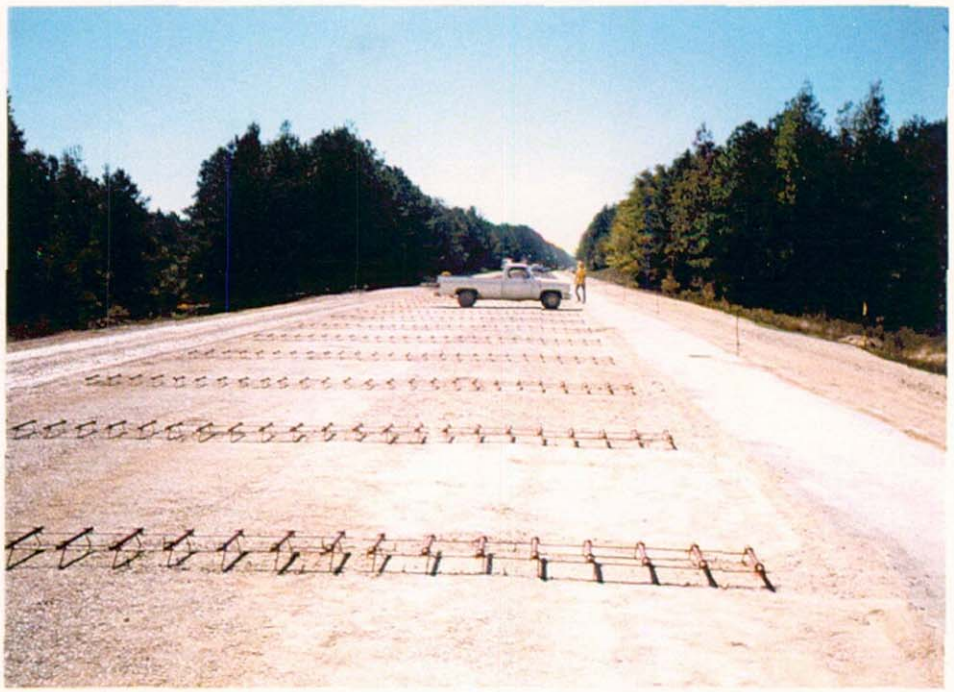

Photo 2. Dowel Assembly

Photo 3. Construction "Laydown" Process

Photo 4. Construction Finishing Process

Photo 5. Removal of Concrete for Dowel Assembly Replacement, 050208

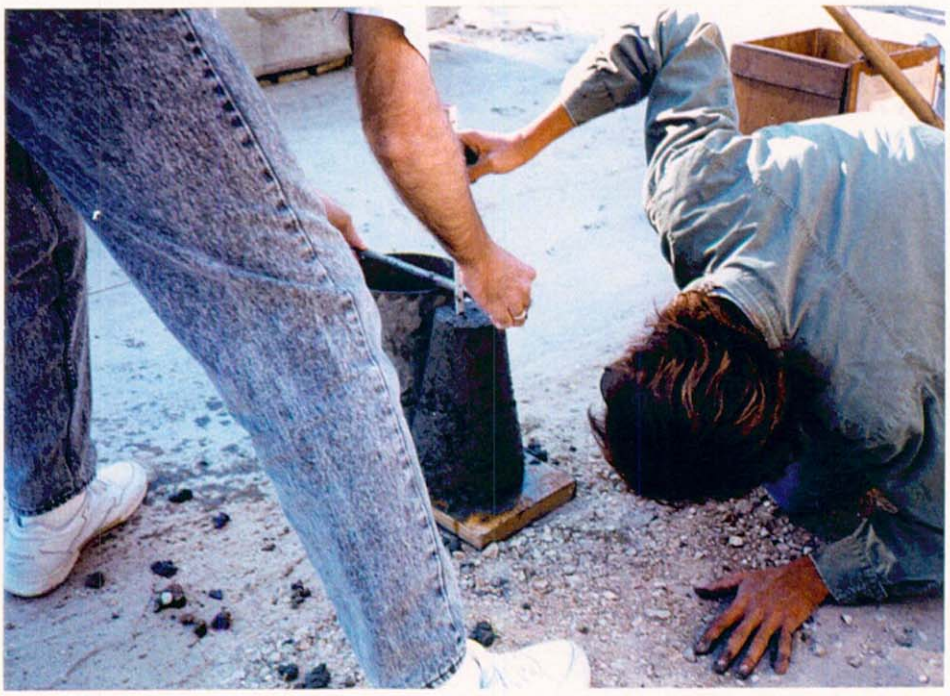

Photo 6. Slump Test

Photo 7. Curing Process

Photo 8. Saw Cut Process

Photo 9. SHRP Experiment Sign

Photo 10. Concrete Plant

Photo 11. Postconstruction Rod and Level Shots

Photo 12. Postconstruction 4″ PCC Coring