LONG TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE

For The Technical Direction Of The LTPP Program

Program Area: SPS **Directive Number: S-7**

Date: February 9, 1994 **Supersedes: Relative SHRP SPS-2 Documents**

Subject: SPS-2 Construction Guidelines
SPS-2 Materials Sampling and Testing Requirements

Attached are the December 1993 and January 1994 revisions to the subject SPS-2 documents. These documents were prepared and revised in accordance with comments received for the LTPP Regional Offices and others involved with the program. They contain clarification and expansion of the original documents but do not change the scope and concept of the original experiment.

Approved: Monte Symons
Date: 2-8-94

NOTICE OF CHANGE(S) TO SHRP SPS REPORT		
Report Title: **Report Date:** **SHRP Operational Memo No.:**	Data Collection Guidelines for SPS- 7 July 1991 SHRP-LTPP-OM-024	
Change Number: **Change Date:**	1 October 30, 1992	Page 1 of 1

The following change should be incorporated in the document:

Construction Data Sheets (All Sheets)

The title and the numbering of the data sheets were revised to conform to the scheme used for the development of Construction Data Sheets for SPS-l and SPS-2 experiments. The revised Sheets 1 to 27 are attached.

Changes in the IMS will be implemented to incorporate the revisions.

SPS-7 CONSTRUCTION DATA SHEET 1 REFERENCE PROJECT STATION TABLE	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [0 0]

ORDER	TEST SECTION ID NO (1)	REFERENCE PROJECT STATION NUMBER		(4) CUT-FILL[1]	
		(2) START	(3) END	TYPE	STATION
1	__ __ __ __ __ __	0 + 0 0	__ __ __ __ + __ __	___	__ + __ __
2	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
3	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
4	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
5	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
6	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
7	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
8	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
9	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
10	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
11	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
12	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
13	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
14	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
15	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
16	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
17	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
18	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
19	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	__ + __ __
20	__ __ __ __ __ __	__ __ __ __ + __ __	__ __ __ __ + __ __	___	

5. SPS - GPS TEST SECTION EQUALITIES
   GPS section __ __ __ __ __ __ is the same as SPS section __ __ __ __ __ __
   GPS section __ __ __ __ __ __ is the same as SPS section __ __ __ __ __ __

6. INTERSECTIONS BETWEEN TEST SECTION ON THE PROJECT

ROUTE	PROJECT STATION NO.	RAMPS | EXIT	ENT	- - - INTERSECTION - - - | STOP	SIGNAL	UNSIG
_____	__ __ __ __ + __ __	____	____	____	____	____
_____	__ __ __ __ + __ __	____	____	____	____	____
_____	__ __ __ __ + __ __	____	____	____	____	____

Note 1.. Indicate the type of subgrade section the test section is located on:
Cut..... 1 Fill..... 2 At-Grade..... 3 Cut and Fill.....4
If cut-fill transition is located in a test section, enter test section station of the cut-fill transition location.

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 2 REVISED LAYER DESCRIPTIONS	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. LAYER NUMBER	2. LAYER DESCRIPTION	3. MATERIAL TYPE CLASS	4. LAYER THICKNESSES (Inches)			
			AVERAGE	MINIMUM	MAXIMUM	STD. DEV.
1	SUBGRADE (7)	[___ ___]		__ __ __ . __	__ __ __ . __	__ __ __ . __
2	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
3	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
4	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
5	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
6	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
7	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
8	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
9	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
10	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
11	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
12	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
13	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
14	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __
15	[___ ___]	[___ ___]	[__ __ __ . __ __]	__ __ __ . __	__ __ __ . __	__ __ __ . __

NOTES:

1. Layer 1 is 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 w/overlay.....02	Subbase Layer.....06	Surface Treatment.....10
Original Surface.....03	Subgrade.....07	Embankment (Fill).....11
HMAC Layer (Subsurface)....04	Interlayer.....08	

   If milling was performed, the layers which were milled shall be assigned their previous layer number and material type. If the layer was completely removed by milling, it shall still be shown as a layer with a zero thickness.
3. Enter the material type classification codes from Tables A.5, A.6, A.7 and A.8 which best describes the material in each layer. If the layer was milled, enter the material classification code corresponding to the type material which was removed.
4. Enter the average thickness of each layer and the maximum, minimum, and standard deviation of the thickness measurements, if known. If a layer was partially milled, the remaining thickness of the layer shall be indicated.

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 3 PRE-OVERLAY SURFACE PREPARATION SKETCH	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 4 CONSTRUCTION QUALITY CONTROL MEASUREMENTS	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE MEASUREMENTS BEGAN (Month-Day- Year) [__ __-__ __-__ __]
2. DATE MEASUREMENTS COMPLETED [__ __-__ __-__ __]

3. PROFILOGRAPH MEASUREMENTS
   - Profilograph Type California....1 Rainhart.....2 ___
   - Profile Index (Inches/Mile) ___ ___
   - Interpretation Method Manual...1 Mechanical..2 Computer..3 ___
   - Height of Blanking Band (Inches) ___.___ ___
   - Cutoff Height (Inches) ___.___ ___

4. SURFACE PROFILE USED AS BASIS OF INCENTIVE PAYMENT? (YES, NO) ___

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 5 LAYER THICKNESS MEASUREMENTS	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE MEASUREMENTS BEGAN (Month - Day - Year) [__ __ - __ __ - __ __]
2. DATE MEASUREMENTS COMPLETED [__ __ - __ __ - __ __]

LAYER THICKNESS MEASUREMENTS (Inches) SHEET ____ OF ____

STATION NUMBER	OFFSET (Inches)	SURFACE COURSE
__ + __ __	___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___
__ + __ __	___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___
__ + __ __	___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___
__ + __ __	___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___
__ + __ __	___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___
__ + __ __	___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___
__ + __ __	___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___ ___ ___ . ___
LAYER NUMBER		___ ___

PREPARER________________________ EMPLOYER______________________ DATE _______________

SPS-7 CONSTRUCTION DATA SHEET 6 MISCELLANEOUS CONSTRUCTION NOTES AND COMMENTS	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

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-7 CONSTRUCTION DATA SHEET 7 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [__ __ - __ __ - __ __]

2. DATE PATCHING OPERATIONS COMPLETED [__ __ - __ __ - __ __]

3. PRIMARY DISTRESS OCCURRENCE PATCHED (code from Table A.22) [__ __]
   Other (Specify)_____
   _____

4. SECONDARY DISTRESS OCCURRENCE PATCHED (code from Table A.22) [__ __]
   Other (Specify)_____
   _____

5. PATCHES
   Total Square Feet [__ __ __ __.]
   Number [__ __ .]
   Average Depth, Inches [__ __ . __]

6. METHOD USED FOR PATCH BOUNDARY DETERMINATION ___
   Visual...1 Ball Peen Hammer, Steel Rod, Chain or Equivalent...2
   Delam-Tech...3 Other (Specify)...4
   _____

7. METHOD USED TO CUT BOUNDARIES ___
   Diamond Blade Saw... 1 Carbide Blade Saw...2 None... 3 Air Hammer...4
   Cold Milling... 5 Other (Specify)...6
   _____

8. METHOD USED TO BREAK UP AND/OR REMOVE DETERIORATED CONCRETE ___
   Jackhammer...1 Cold Milling...2
   Other (Specify)...3 _____

9. METHOD FOR FINAL CLEANING OF PATCH AREA
   None...1 Sandblasting...2 Waterblasting...3
   Other (Specify)...4 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 8 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. PATCH MATERIAL USED [___]
   Portland Cement Concrete...1 Polymer Concrete...2 Epoxy Mortar... 3
   Other (Specify)...5 _____

2. BONDING AGENT [___]
   None... 1 Cement Grout... 2 Epoxy Resin... 3
   Other (Specify)...5 _____

3. MIXTURE DESIGN FOR PATCH MATERIAL, LB./CUBIC YARD
   Coarse Aggregate [___ ___ ___ ___.]
   Fine Aggregate [___ ___ ___ ___.]
   Cement [___ ___ ___ ___.]
   Water (Gallons/Cubic yd.) [___ ___ ___ ___.]

4. MAXIMUM SIZE OF COARSE AGGREGATE, INCHES ___ . ___

5. CEMENT TYPE USED [__ __]
   (See Cement Type Codes, Tables A.11)

6. AIR CONTENT, PERCENT BY VOLUME
   Mean [___ . ___ . ___]
   Range Min [___ . ___ . ___]
   Max [___ . ___ . ___]

7. ADMIXTURES [__ __]
   (See Cement Additive Codes, Table A.12) [__ __]

8. SLUMP, INCHES
   Mean [___ . ___ . ___]
   Range Min [___ . ___ . ___]
   Max [___ . ___ . ___]

9. COMPRESSIVE STRENGTH OF PATCH MATERIAL, PSI [___ ___ ___ ___.]
   Curing Time, Days [___ ___]
   If Unavailable, and Other Strength Test Conducted,
   Alternate Test [_____]
   Type of Loading [_____]
   Age, Days [___ ___]; Strength, PSI [___ ___ ___ ___ .]

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 9 PARTIAL DEPTH PATCHING FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. 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 _____

2. APPROXIMATE TIME BETWEEN PATCHING AND OPENING TO TRAFFIC, HOURS [___ ___]

3. AMBIENT CONDITIONS AT TIME OF PATCHING LOW [___ ___ ___.]
   Air Temperature °F HIGH [___ ___ ___.]
   Surface Moisture - Dry = 1, Wet = 2 [__]

4. METHOD OF CONSOLIDATING MATERIALS ___
   Vibrators...1 Vibrating Screeds...2 Troweling... 3
   Rodding/Tamping...4 Rolling...5
   Other (Specify)...6 _____

5. FINISHING METHOD
   Screeding... 1 Hand-Troweling... 2 Machine-Troweling... 3
   Other (Specify)...4 _____

6. 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 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 10 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE JOINT SEALANT OPERATIONS BEGAN (Month-Day- Year) [__ __ - __ __ - __ __]

2. DATE JOINT SEALANT OPERATIONS COMPLETED [__ __ - __ __ - __ __]

3. METHOD OF REMOVING OLD SEALANT [___]
   Not Removed...1 Joint Plow - V-Shaped... 2 Joint Plow - Rectangular... 3
   High Pressure Water Blasting... 4 Diamond Blade Saw...5
   Carbide Blade Saw...6 Pull-Out of Old Compression Sealant... 7
   Not Previously Sealed... 8
   Other (Specify)...9 _____

4. NEW SEALANT RESERVOIR DIMENSIONS, INCHES
   Width [__ . __]
   Depth (From Top of Slab to Top of Backer Rod or Tape) [__ __ . __]

5. BOND BREAKER UNDER SEALANT [__]
   None...1 Nonreactive Adhesive Backed Tape... 2 Backer Rod... 3
   Other (Specify)...4 _____

6. WERE JOINT SIDEWALLS REFACED?
   No...1 Yes - One-Blade...2 Yes - Two-Blade...3
   Other (Specify)...4 _____

7. CLEANING OF SIDEWALLS [__]
   None...l Air Blast...2 Sand Blast... 3 Water Blast ...4
   Other (Specify)...4 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 11 JOINT RESEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. TYPE OF CONTRACTION JOINT SEALANT [__]
(AASHTO OR ASTM SPECIFICATIONS)

D1850 (ASTM) Concrete Joint Sealer, Cold-Application Type... 1
D1190 (ASTM) - M173 (AASHTO) Concrete Joint Sealer, Hot-Poured Elastic Type...2
D3406 (ASTM) - M282 (AASHTO) Joint Sealants, Hot-Poured, Elastomeric-Type, for PCC Pavements... 3
D3405 (ASTM) - M301 (AASHTO) Joint Sealants, Hot-Poured for Concrete and Asphalt Pavements...4
D3542 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Bridges... 5
D2628 (ASTM) Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements...6
Other (Describe - if Silicone Material is Used Federal Spec. TT-S-001543A, Georgia D.O.T. Spec 833.06, or Equal Applies...7
_____
_____

Manufacturer Information on Type of Pressure Relief Joint Sealant
Manufacturer Name [_____]
Manufacturer Sealant Name [_____]

2. AVERAGE DEPTH OF TOP OF SEALANT PLACEMENT
BELOW PAVEMENT SURFACE, INCHES [__ . __]

3. ARE EXPANSION JOINTS SEALED DIFFERENTLY THAN CONTRACTION JOINTS? [__]
Yes... 1 No...2

If Yes, Enter the code from Item 1, or describe below [__]
Other [_____
_____
_____]

4. TOTAL LINEAR FEET OF JOINTS SEALED
Transverse Joints [__ __ __ __ . __]
Longitudinal Joints [__ __ __ __ . __]

NOTE: IF DIFFERENT MATERIALS OR METHODS ARE USED REPEAT SHEETS 15 AND 16 FOR EACH RECORDING THEIR LENGTHS IN ITEM NO. 4.

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 12 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE PATCHING OPERATIONS BEGAN (Month-Day-Year) [__ __ - __ __ - __ __]

2. DATE PATCHING OPERATIONS COMPLETED [__ __ - __ __ - __ __]

3. PRIMARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB [__ __]
(See Table A.22 for Type Codes)
Other (Specify) _____

4. SECONDARY DISTRESS OCCURRENCE PATCHED OR REPLACED WITH NEW SLAB __ __
(See Table A.22 for Type Codes)
Other (Specify) _____

5.

PATCHES	NUMBER	SQ. FEET
SLAB ONLY	[__ __]	[__ __ __ __]
SLAB AND BASE	[__ __]	[__ __ __ __]

6. PATCH MATERIAL USED [__]
Portland Cement Concrete... 1 Polymer Concrete... 2 Epoxy Mortar... 4
Other (Specify)... 5 _____

7.

SLABS REPLACED	NUMBER	SQ. FEET
SLAB ONLY	[__ __]	[__ __ __ __]
SLAB AND BASE	[__ __]	[__ __ __ __]

8. METHOD FOR PATCH BOUNDARY DETERMINATION ___
Visual...1 Coring...2 Deflection...3
State Standard or Specification... 4
Other (Specify)... 5 _____

9. CUTTING INSTRUMENT ___
Diamond Blade Saw...1 Carbide Blade Saw...2 Wheel Saw... 3
Air Hammer...4
Other (Specify)... 5 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 13 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. SECURING LOAD TRANSFER DEVICES [__]
   None...1 Grout Filler... 2 Epoxy filler...3
   Other... 4 _____

2. REINFORCING STEEL PLACED IN PATCH [__]
   No...l Yes... 2

		TEMPERATURE STEEL Transverse	 Longitudinal
3.	REBAR NUMBER	[__ __]	[__ __]
4.	BAR LENGTHS, INCHES	[__ __ . __]	[__ __ . __]
5.	BAR SPACING, INCHES	[__ __ . __]	[__ __ . __]

		Dowel Bars	Tie Bars
6.	REBAR NUMBER	[__ __]	[__ __]
7.	BAR LENGTHS, INCHES	[__ __ . __]	[__ __ . __]
8.	BAR SPACING, INCHES	[__ __ . __]	[__ __ . __]

9. DOWEL COATINGS [__]
   None...1 Paint and/or Grease...2 Plastic... 3
   Monel...4 Stainless Steel... 5 Epoxy... 6
   Other (Specify)...7 _____

10. NUMBER OF SAW CUTS PER PATCH (If Sawed) ___ ___

11. DEPTH OF TYPICAL BOUNDARY SAW CUT, INCHES __ __ . __

12. CONCRETE BREAKUP __
    None...1 Pneumatic Air Hammer...2 Gravity Drop Hammer...3
    Sawing...4
    Other (Specify)...5 _____

13. REMOVAL OF CONCRETE __
    Concrete Breakup and Cleanout... 1 Lift Out Intact Slab Section... 2
    Other (Specify)... 3 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 14 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. METHOD OF REINFORCING STEEL PLACEMENT [__]
   Chairs...1 Between Layers of Concrete...2

2. MIXTURE DESIGN FOR PATCH MATERIAL, LB./CUBIC YARD
   Coarse Aggregate [___ ___ ___ ___.]
   Fine Aggregate [___ ___ ___ ___.]
   Cement [___ ___ ___ ___.]
   Water (Gallons/Cubic Yard) [___ ___ ___ ___.]

3. CEMENT TYPE USED [__ __]
   (See Type Codes, Tables 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 LOW [__ __ __ .]
   Air Temperature °F 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-Trowling...2 Machine-Troweling...3
    Other (Specify) ... 4 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 15 FULL DEPTH REPAIR DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

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...6
   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-7 CONSTRUCTION DATA SHEET 16 LOAD TRANSFER RESTORATION DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE LOAD TRANSFER RESTORATION BEGAN (Month-Day- Year) [__ __ - __ __ - __ __]

2. DATE LOAD TRANSFER RESTORATION COMPLETED [__ __ - __ __ - __ __]

3. NUMBER OF JOINTS IN TEST SECTION [__ __ __]

4. NUMBER OF JOINT LOAD TRANSFER RESTORATION LOCATIONS [__ __ __]

5. NUMBER OF DEVICES PER JOINT [__ __ __]

6. LOCATION OF DOWELS OR SHEAR DEVICES (INCHES)

(DISTANCE FROM THE OUTER LANE EDGE TO THE CENTER OF EACH DEVICE)

lst [__ __ __ .]
2nd [__ __ __ .]
3rd [__ __ __ .]
4th [__ __ __ .]
5th [__ __ __ .]
6th [__ __ __ .]
7th [__ __ __ .]
8th [__ __ __ .]
9th [__ __ __ .]
10th [__ __ __ .]
11th [__ __ __ .]
12th [__ __ __ .]
13th [__ __ __ .]
14th [__ __ __ .]

7. DIAMETER OF RETROFIT DOWEL BARS, INCHES [__ . __ __]

8. MATERIAL USED TO BACKFILL SLOT/CORE HOLE [__]
   Cement Based Grout... 1 Polymer Concrete...2
   Epoxy Resin Grout... 3
   Other (Specify)...4 _____

9. BONDING AGENT USED BETWEEN EXISTING PCC AND BACKFILL MATERIAL [__]
   None...1 Epoxy...2 Cement/Water... 3
   Other (Specify)...4 _____

PREPARER_____ EMPLOYER_____ DATE _____

April 1991 (Heading revised October 1992)

SPS-7 CONSTRUCTION DATA SHEET 17 LOAD TRANSFER RESTORATION DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. LOAD TRANSFER EFFICIENCY BEFORE AND AFTER RESTORATION

LOAD TRANSFER EFFICIENCY (%)

POINT DISTANCE (FEET)	BEFORE RESTORATION		AFTER RESTORATION	
	APPROACH	LEAVE	APPROACH	LEAVE
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]
[__ __ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]	[__ __ __ .]

2. DATE OF LOAD TRANSFER EFFICIENCY TESTS
   BEFORE RESTORATION (Month-Day-Year) [__ __ - __ __ - __ __]
   AFTER RESTORATION [__ __ - __ __ - __ __]

PREPARER________________________ EMPLOYER______________________ DATE _______________

SPS-7 CONSTRUCTION DATA SHEET 18 UNDERSEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE UNDERSEALING BEGAN (Month-Day- Year) [__ __ - __ __ - __ __]

2. DATE UNDERSEALING COMPLETED [__ __ - __ __ - __ __]

3. TYPE OF MIXTURE USED IN SUBSEALING [__]
   Cement-Loam Top Soil Slurry...1 Cement-Limestone Dust Slurry...2
   Cement-Pozzolan Slurry... 3 Cement-Fine Sand Slurry... 4
   Other (Specify)... 6 _____

MIX DESIGN OF PORTLAND CEMENT GROUT (Items 4. to 8.)

4. CEMENT TYPE (SEE CEMENT TYPE CODES, TABLE A.11) [__ __]
5. CEMENT TO SAND RATIO (BY WEIGHT) [__ . __]
6. WATER/CEMENT RATIO (BY WEIGHT) [__ . __ __]
7. ADDITIVE TYPE (SEE TABLE A.12) [__ __]
8. AMOUNT OF ADDITIVE (BY PERCENT OF CEMENT WEIGHT) [__ __ __ .]

9. FLUIDITY OF PORTLAND CEMENT GROUT [__ __ . __]
   (Flow Cone Method ASTM C939) (SEC)

10. CUBE COMPRESSIVE STRENGTH OF PORTLAND CEMENT GROUT, psi __ __ __ .

11. CURING PERIOD FOR PORTLAND CEMENT GROUT (DAYS) __ __

12. DETERMINATION OF AREA TO BE UNDERSEALED [__]
    Blanket Coverage...1 Deflection Data... 2
    Visual Signs of Pumping...3
    Other (Specify)...4 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 19 UNDERSEALING DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES, CONTINUED	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DEPTH OF SUBSEALING HOLE FROM TOP OF SLAB (INCHES) [__ __ . __ __]

2. MAXIMUM ALLOWABLE PUMPING PRESSURE [__ __ __.]
   (Gauge at Plant) (PSI)

3. MAXIMUM SURGE PRESSURE (PSI) [__ __ __.]

4. SLABS IN TEST SECTION (JOINTED CONCRETE PAVEMENTS ONLY)
   Total Number [__ __ __ .] Number Sealed [__ __ __ .]

5. AVERAGE NUMBER OF HOLES PER SLAB SUBSEALED [__ __ .]
   (JCP Only)

6. TYPICAL NUMBER OF SUBSEALING HOLES NEAR JOINT OR CRACK [__ __ .]
   (JCP Only)

7. AVERAGE NUMBER OF HOLES PER LINEAL FOOT OF PAVEMENT [__ __ . __]
   (CRCP Only)

8. AVERAGE VOLUME OF MATERIAL PUMPED PER HOLE [__ __ . __]
   (Cubic Feet)

9. MONITORING OF LIFT [__]
   Deflection Device (e.g. , Benkelman Beam)... 1 Maximum Pumping Time...2
   Appearance of Material in Adjacent Joints or Cracks...3
   Other (Specify)... 4 _____

10. TYPICAL TIME BETWEEN SUBSEALING AND REOPENING TO TRAFFIC (HOURS) [__ __ .]

11. WERE DEFLECTION MEASUREMENTS TAKEN BEFORE AND AFTER SUBSEALING?
    Yes... 1 No...2
    BEFORE SUBSEALING [__]
    AFTER SUBSEALING [__]

12. TIME OF DAY THAT DEFLECTION MEASUREMENTS WERE CONDUCTED (HOURS)

	STARTING TIME	ENDING TIME
BEFORE SEALING	[__ __ __ __]	[__ __ __ __]
AFTER SEALING	[__ __ __ __]	[__ __ __ __]

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 20 SUBDRAINAGE RETROFIT FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE SUBDRAINAGE PLACEMENT BEGAN (Month-Day- Year) [__ __ - __ __ - __ __]

2. DATE SUBDRAINAGE PLACEMENT COMPLETED [__ __ - __ __ - __ __]

3. TYPE OF DRAINAGE PIPE [__]
   Clay Tile... 1 Concrete Tile...2 Vitrified Clay...3
   Perforated Plastic Bituminous Fiber...4 Perforated Corrugated Metal... 5
   Corrugated Plastic Tubing... 6 Drainage Mat... 7
   Other (Specify)... 8 _____

4. DIAMETER OF PIPE (INCHES) [__ __ . __]

5. DEPTH OF PIPE BELOW TOP OF PAVEMENT SURFACE (INCHES) [__ __ . __]

6. HORIZONTAL PLACEMENT OF PIPE FROM OUTER EDGE OF PAVEMENT (INCHES) [__ __ . __]

7. TYPE OF PRIMARY FILTER USED [__]
   Graded Aggregate...1 Uniformly Graded Aggregate (One Size)...2
   Woven Fabric...3 Non-Woven Fabric... 4 Porous PCC... 5
   Porous Bituminous Concrete... 6
   Other (Specify)... 7 _____

8. MAXIMUM PARTICLE SIZE OF PRIMARY FILTER MATERIAL (INCHES) [__ . __]

9. GRADATION OF PRIMARY FILTER MATERIAL
   % Passing #4 Sieve [__ __ . __] % Passing #40 Sieve [__ __ . __]
   % Passing #10 Sieve [__ __ . __] % Passing #100 Sieve [__ __ . __]

10. PERMEABILITY OF PRIMARY FILTER MATERIAL (FT/DAY) __ __ . __ __

11. TYPE AND LOCATION OF SECONDARY FILTER MATERIAL [__]
    Fabric Encapsulating the Primary Filter Material... 1
    Fabric Encapsulating the Drainage Pipe... 2
    Other (Specify)... 3 _____

12. AVERAGE OUTLET INTERVAL (FEET) [__ __ . __]

13. PRIMARY PURPOSE OF SUBRAINAGE INSTALLATION [__]
    Remove Free Water From Pavement Layers... 1
    Cut Off Side-Hill/Through Hill Seepage... 2
    Lower Water Table... 3
    Other (Specify) ... 4 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 21 REFLECTIVE CRACK CONTROL DATA FOR PAVEMENTS WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE REFLECTIVE CRACK CONTROL OPERATIONS BEGAN
   (Month-Day-Year) [__ __ - __ __ - __ __]

2. DATE REFLECTIVE CRACK CONTROL OPERATIONS COMPLETED [__ __ - __ __ - __ __]

3. TOTAL LINEAR FEET OF CRACKS TIED [__ __ __ __ .]

4. METHOD OF BAR PLACEMENT THROUGH TRANSVERSE CRACKS [__]
   Placed on top of crack...1 Recessed in pavement... 2
   Other (Specify)...3 _____

5. METHOD OF FORMING RECESSED SLOT [__]
   (Leave Blank if Answered "1" to Question 4)
   Saw Cut...1 Milled...2
   Other (Specify)...3 _____

6. BAR SIZE (No.) [__]

7. BAR LENGTH, inches [__ __ . __]

8. METHOD OF BAR PLACEMENT THROUGH LONGITUDINAL CRACKS [__]
   Placed on top of crack...1 Recessed in pavement... 2
   Cross stitched... 3
   Other (Specify)... 4 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 22 MILLING OF PORTLAND CEMENT CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE MILLING OPERATIONS BEGAN (Month-Day-Year) [__ __ - __ __ - __ __]

2. DATE MILLING OPERATIONS COMPLETED [__ __ - __ __ - __ __]

3. AVERAGE DEPTH OF CUT, inches [__ . __]

4. CUTTING HEAD WIDTH, inches [__ __ __ . __]

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 23 SUFRACE REMOVAL/CLEANING FOR PAVEMENT WITH PORTLAND CEMENT CONCRETE SURFACES	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE SURFACE REMOVAL/CLEANING OPERATIONS BEGAN
   (Month-Day-Year) [__ __ - __ __ - __ __]

2. DATE SURFACE REMOVAL/CLEANING OPERATIONS COMPLETED [__ __ - __ __ - __ __]

3. METHOD OF REMOVAL/CLEANING [__]
   Shotblasting... 1 Sandblasting...2 Water Blasting w/abrasives... 3
   Water Blasting...4 Air Blowing... 5
   Other (Specify)...6 _____

4. REASON FOR REMOVAL/CLEANING [__]
   Provide rough surface for Overlay... 1
   Secondary Cleaning after Cold Milling... 2
   Secondary Cleaning after Shotblasting... 3
   Final Cleaning to remove dust & free particles... 4
   Other (Specify) ...5 _____

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 24 PORTLAND CEMENT CONCRETE OVERLAY PLAVEMENT OPERATIONS	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE PAVING OPERATIONS BEGAN (Month-Day-Year) [__ __ - __ __ - __ __]
2. DATE PAVING OPERATIONS COMPLETED [__ __ - __ __ - __ __]

AIR TEMPERATURES DURING PLACEMENT (°F) (Items 3, 4, & 5)

3. MEAN [__ __ __ .]
4. MINIMUM [__ __ __ .]
5. MAXIMUM [__ __ __ .]

6. CURING PERIOD BEFORE OPENING TO ANY TRAFFIC (DAYS) [__ __ .]

7. TIME BEFORE SAWING (HOURS) [__ __ .]

8. METHOD USED TO CURE CONCRETE [__]
   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 _____

9. METHOD USED TO TEXTURE CONCRETE [__]
   Tine... 1 Broom...2 Burlap Drag...3 Grooved Float...4
   Astro Turf... 5
   Other (Specify)...6 _____

10. TYPE OF GROUT USED FOR BONDED OVERLAYS [__]
    None...1 Water/Cement...2 Water/Cement/Sand... 3
    Epoxy-Resin...4
    Other (Specify)...5 _____

    MIX DESIGN OF PORTLAND CEMENT GROUT (Items 11. to 15.)

11. CEMENT TYPE (SEE CEMENT TYPE CODES, TABLE A.11) [__ __]
12. CEMENT TO SAND RATIO (BY WEIGHT) [__ . __]
13. WATER/CEMENT RATIO (BY WEIGHT) [__ . __ __]
14. ADDITIVE TYPE (SEE TABLE A.12) [__ __]
15. AMOUNT OF ADDITIVE (BY PERCENT OF CEMENT WEIGHT) [__ __ __ .]

.PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 25 BONDED PORTLAND CEMENT CONCRETE OVERLAY-JOINT DATA	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE JOINTING OPERATIONS BEGAN (Month-Day- Year) [__ __ - __ __ - __ __]

2. DATE JOINTING OPERATIONS COMPLETED [__ __ - __ __ - __ __]

3. AVERAGE CONTRACTION JOINT SPACING (FEET) [__ __ __ . __]
   (RANDOM JOINT SPACING, IF ANY: _____)

4. BUILT-IN EXPANSION JOINT SPACING (FEET) [__ __ __ __ .]

5. SKEWNESS OF JOINTS (FT/LANE) [__ . __]

6. AVERAGE INTERMEDIATE SAWED JOINT SPACING (FEET) [__ __ . __]

7. METHOD USED TO FORM TRANSVERSE JOINTS [__]
   Sawed.....1 Metal Insert
   Plastic Insert..... 2 (i.e., Uni-Tube).....3
   Other (Specify)... 4 _____

8. TYPE OF LONGITUDINAL JOINT (BETWEEN LANES) [__]
   Butt..... 1 Sawed Weakened Plane....3
   Keyed..... 2 Insert Weakened Plane.....4
   Other (Specify).... 5

9. TYPE OF SHOULDER-TRAFFIC LANE JOINT [__]
   Butt..... 1 Insert Weakened Plane....4
   Keyed..... 2 Tied Concrete Curb.....5
   Sawed Weakened Plane..3
   Other (Specify)..... 5 _____

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

11. TRANSVERSE JOINT SEALANT RESERVOIR WIDTH (INCHES) [__ . __ __]
12. TRANSVERSE JOINT SEALANT RESERVOIR DEPTH (INCHES) [__ . __ __]
13. LONGITUDINAL JOINT SEALANT RESERVOIR WIDTH (INCHES) [__ . __ __]
14. LONGITUDINAL JOINT SEALANT RESERVOIR DEPTH (INCHES) [__ . __ __]

15. JOINT SEALANT BACKER MATERIAL TYPE [__]
    Foam Backer Rod.....1 Tape..... 2 Rope....3
    None..... 4 Other (Specify)_____

16. JOINT SEALANT BACKER DIMENSION (INCHES) [__ . __ __]
    (Enter diameter of rod/rope or width of tape)

SHOULDER-TRAFFIC LANE JOINT SEALANT RESERVOIR (Items 17 and 18)

17. WIDTH (INCHES) [__ . __ __]
18. DEPTH (INCHES) [__ . __ __]

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 26 DELAMINATION OF PORTLAND CEMENT CONCRETE OVERLAY	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

1. DATE OF DELAMINATION DETECTION OPERATIONS (Month-Day-Year) [__ __ - __ __ - __ __]

2. METHOD OF DELAMINATION DETECTION [__]

   1 -- ELECTRO-MECHANICAL DEVICE
   2 -- CHAIN DRAG OR TAPPING

3. TOTAL AREA OF POSSIBLE DELAMINATION, square feet [__ __ __ __]

4. TOTAL NUMBER OF SLABS WITH DELAMINATION (JCP ONLY) [__ __ __]

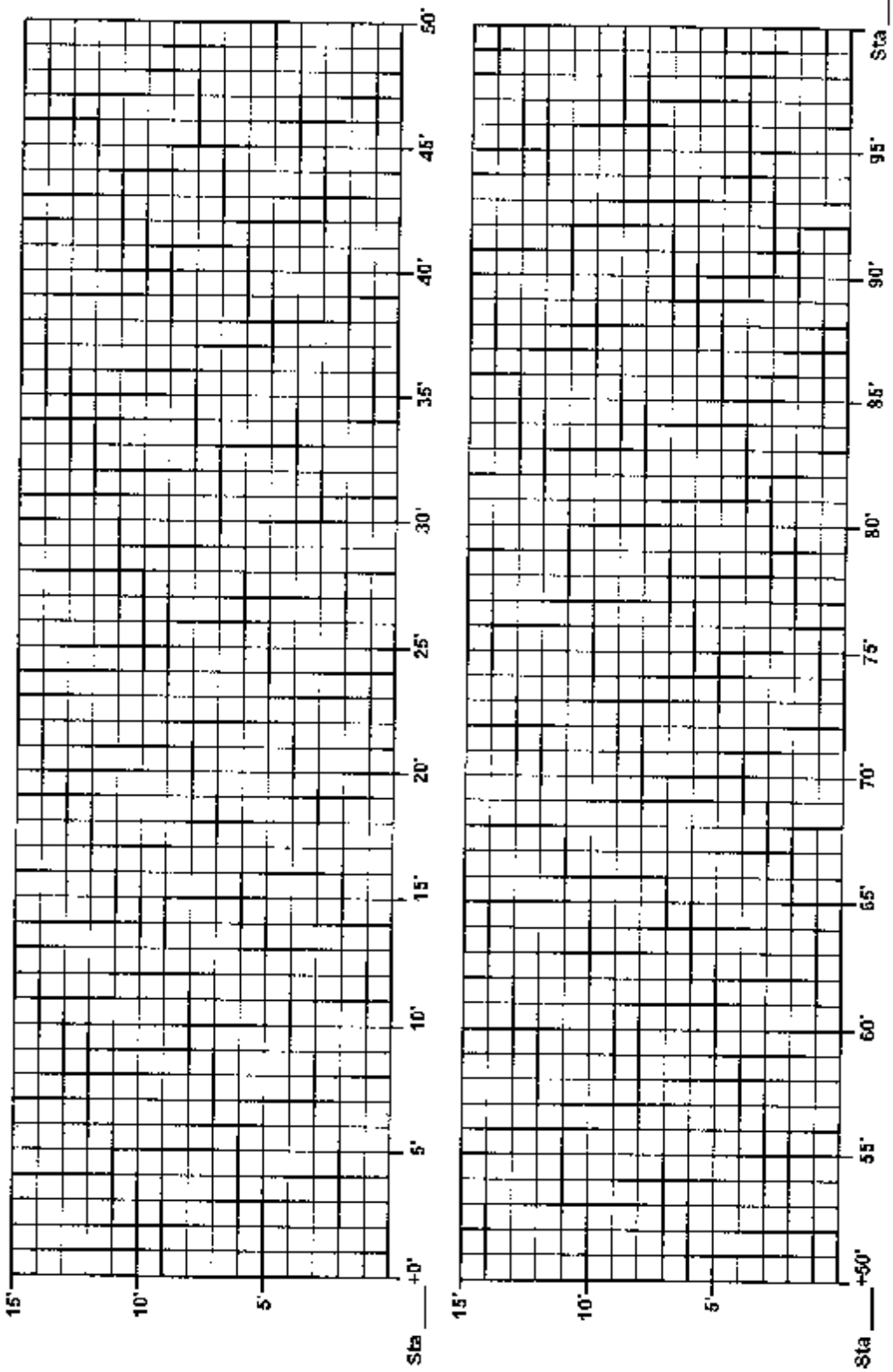
Number of map sheets used for this section _____ .

COMMENTS_____
_____
_____
_____
.

PREPARER_____ EMPLOYER_____ DATE _____

SPS-7 CONSTRUCTION DATA SHEET 27 DELAMINATION OF DETECTION SECTION MAP	* STATE CODE [__ __] * SPS PROJECT CODE [__ __] * TEST SECTION NO. [__ __]

SHEET __ OF __



PREPARER_____ EMPLOYER_____ DATE _____

NOTICE OF CHANGE(S) TO SHRP SPS REPORT

Report Title **Report Date:** **SHRP Operational Memo No.:**	Data Collection Guidelines for SPS- 7 July 1991 SHRP-LTPP-OM-024	
Change Nunber: **Change Date:**	1 October 30, 1992	**Page 1 of 1**

The following change should be incorporated in the document:

Page 11

Text references to Figure 2 use the wrong core location names. The text has been corrected to properly reference the existing Figure 2 and the page header has a revision date of October 1992.

The revised page is attached.

.

The station to be specified on these data forms is referenced from either the beginning or end of the test sections adjacent to the sampling area. For expediency in the field, the station number designated on the form is relative to the test section number designated on the data form. Thus, if the sampling area occurs after the referenced test section, the station number should be greater than 5+00. If the sampling area occurs in front of the designated test section, the station number should be negative. This station number should not be the reference project station number, as outlined in the section entitled, “Construction Data” of this report, i.e. the relative test section station number and the reference project station number will be the same only on the first test section of a project, since the beginning point of the first test section is defined as the project station 0+00. The offset distance is measured from the joint between the outside edge of the test section lane and the outside shoulder, to the core location.

Figure 2 illustrates the location referencing system to be used for SPS material samples. In this example, designated sampling area SA-12 is situated between sections 200706 and 200707. In sampling area SA-12, two 4-inch diameter C-Type cores, Cl6 and C17, are located 5 feet apart and three feet from the edge of the lane. The location of these two cores can be specified relative to either test section 200706 (alternative I) or test section 200707 (alternative 2). In alternative 1, the station number of core Cl6 is 5+95 since it is 95 feet past the end of section 200706. Core Cl7 is located at station 6+00. In alternative 2, the station numbers of cores Cl6 and Cl7 are -1+05 and -1+00, respectively since they occur in advance of test section 200707. Thus when specifying the sampling locations on the field data form, the station number written on the form must correspond to the test section.

LTPP-SPS MATERIAL SAMPLING AND FIELD TESTING DATA SHEETS

Most of the LTPP-SPS Material Sampling and Field Testing data sheets use the same top block of information related to the test section and project.