

FDOT Asphalt Forms and Reports CTQP Training - 2009 Update

Page

2	675-030-17 Asphalt Independent Verification Report (09/2008)
7	675-030-18 Asphalt Plant - Daily Report of Quality Control (09/2008)
12	675-030-19 Asphalt Plant - Verification Report (09/2008)
18	675-030-20 Asphalt Roadway - Daily Report of Quality Control (09/2008)
24	675-030-20A Asphalt Roadway - Daily Report of Quality Control – Automated Ver. (12/2008)
26	675-030-21 Asphalt Roadway - Verification Report (09/2006)
30	675-030-22A Asphalt Plant - Pay Factor Worksheets, July 2005 Spec, and later (02/2005)
38	675-030-23 Asphalt Resolution Report (09/2008)
39	675-030-24 Asphalt Mix Design Summary Report (01/2004)
44	675-030-25 Asphalt Plant Worksheet (03/2009)
46	675-060-10 Asphalt Pavement Straightedge Test Report (03/2008)
50	700-010-98 Cross Slope Measurement Form (03/2002)

Other related Forms and Reports not included:

700-050-12 Asphalt Roadway - As Built Pavement Data (LIMS) (02/2009)

Asphalt Independent Verification Report

Fin. Project ID:		Pay Item No.:		Material ID.: 123L	
Sample Level: IV		Resolution Sample: N			
Destination LabID:		Manfr or Prod:		Plant No.:	
Design Mix No.:				Sampled By:	
Date Sampled:		Intended Use:		Performed By:	
Lot:	Sublot:	Quant. Rep:		Unit of Measure: TN	

Plant Volumetrics		Traffic Level		
LIMS ID:				
Date Tested:				
Sample No.:				
Sample Status:				
Grad and AC Cont.	Mix Design Targets	Independent Verification	Split Sample	Difference
1" (25.0mm)				
3/4" (19.0mm)				
1/2" (12.5mm)				
3/8" (9.5mm)				
#4 (4.75mm)				
#8 (2.36mm)				
#16 (1.18mm)				
#30 (600 μm)				
#50 (300 μm)				
#100 (150 μm)				
#200 (75μm)				
AC %				
Gmm				
Avg. Bulk (Gmb)				
Agg. Spec. Grav.				
Hgt. @ N int.				
Hgt @ N des.				
Gyrations @ Ndes.				
% Gmm @ N int.				
% Gmm @ N des.				
% Air Voids @ Nd				
% VMA @ Ndes.				
% VFA @ Ndes.				
Dust / Asphalt				
Gmb @ Ndes.				
Gse				
Pba				
Pbe				

Roadway Cores			
Lane	Tons	Station	Lift # of #

Roadway Core Gmb Data				
ID	(A) Dry Wgt	(B) SSD Wgt	(C) In H ² O	Gmb A/B-C
Average				

SGC Pill Gmb & Height Data		
ID		
(A) Dry Weight		
(B) SSD Weight		
(C) Weight in H ² O		
Gmb A/B-C		
Average Gmb		
Hgt. @ Nini.		
Average		
Hgt. @ Ndes.		
Average		

Qualified Technician Signature _____

Remarks: _____

Roadway Core 1 Gmb

INSTRUCTIONS FOR COMPLETION OF ASPHALT INDEPENDENT VERIFICATION REPORT

*Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it .
All corrections shall be initialed and dated. Use updated forms when they become available.*

LIMS SINGLE SAMPLE LOGIN INFORMATION SECTION

- 1 Fin. Project ID** - Enter the Financial Project ID on which the sampled mix was placed.
- 2 Pay Item No.** - Record the pay item number represented by the report. The pay item number must be written exactly as it appears on the project JOB GUIDE SCHEDULE.
- 3 Destination Lab ID** - Enter the Lab ID (assigned by the Department) that will be receiving and performing the testing of the sample(s).
- 4 Manufacturer or Producer** - Enter the Company Name that actually manufactured or produced the material.
- 5 Plant No.** - Identification number assigned to each approved asphalt plant producing asphalt for the Department.
- 6 Design Mix No.** - Example: SP 97-0008, SP 02-1750A.
- 7 Sampled By (TIN#)** - Record the Technician Identification Number of the person who actually collected the sample.
- 8 Date Sampled** - Date and Time sample was taken. (e.g., 7/1/2004 at 10:00pm)
- 9 Intended use** - Indicate if mix is for Base, Structure, Friction Course etc., and Lane(s), (R1, R2, L1, L2) (e.g., Structural, R1 or Base, L2)
- 10 Performed By (TIN#):** - Record the Technician Identification Number of the person who actually performs the sample testing.
- 11 Lot Sublot** - Enter the Lot # and Sublot # for the sample that was taken.
- 12 Quantity Rep.** - Sample tonnage for this LOT (i.e., sample taken at tonnage 3682 tons of this LOT.)
- 13 Traffic Level** - Enter the Traffic Level of the type of mix being tested. (i.e., A,B,C,D or E)
- 14 LIMS Sample ID** - The LIMS Sample ID is a field that is automatically generated by LIMS upon sample login. Once completing the login process record the LIMS Sample ID here.
- 15 Date Tested** - Enter the date the sample was tested.
- 16 Sample No.** - Each sample number will correspond to the Quality Control sample number for each subplot tested. (e.g., 2B001Q corresponds to 2B001I)

NOTE: Sample numbers cannot be duplicated when using the sample material number on the same project. To prevent duplication, samples should be numbered sequentially, according to mix type and use. Sample numbers should be kept sequentially despite changes in an approved mix design

EXAMPLES	OF	SAMPLE	NUMBERS
Type of Mix		Correct Numbering Sequences	
B-12.5		B2001I, B2002I, B2003I, <-> B2999I	
FC-9.5		1F001I, 1F002I, 1F003I, <-> 1F999I	
FC-12.5		2F001I, 2F002I, 2F003I, <-> 2F999I	
FC-5		5F001I, 5F002I, 5F003I, <-> 5F999I	
FC-6		6F001I, 6F002I, 6F003I, <-> 6F999I	
SP-9.5 TL-A		1A001I, 1A002I, 1A003I, <-> 1A999I	
SP-9.5 TL-B		1B001I, 1B002I, 1B003I, <-> 1B999I	
SP-9.5 TL-C		1C001I, 1C002I, 1C003I, <-> 1C999I	
SP-9.5 TL-D		1D001I, 1D002I, 1D003I, <-> 1D999I	
SP-9.5 TL-E		1E001I, 1E002I, 1E003I, <-> 1E999I	
SP-12.5 TL-A		2A001I, 2A002I, 2A003I, <-> 2A999I	
SP-12.5 TL-B		2B001I, 2B002I, 2B003I, <-> 2B999I	
SP-12.5 TL-C		2C001I, 2C002I, 2C003I, <-> 2C999I	
SP-12.5 TL-D		2D001I, 2D002I, 2D003I, <-> 2D999I	
SP-12.5 TL-E		2E001I, 2E002I, 2E003I, <-> 2E999I	
SP-19.0 TL-A		3A001I, 3A002I, 3A003I, <-> 3A999I	
SP-19.0 TL-B		3B001I, 3B002I, 3B003I, <-> 3B999I	
SP-19.0 TL-C		3C001I, 3C002I, 3C003I, <-> 3C999I	
SP-19.0 TL-D		3D001I, 3D002I, 3D003I, <-> 3D999I	
SP-19.0 TL-E		3E001I, 3E002I, 3E003I, <-> 3E999I	

17 Sample Status - Does any sample characteristic fall outside of Table 334-5? Yes or No.

PLANT VOLUMETRICS

Note: Results from previous Sublots samples should not be recorded again. (Record all results to two decimal places).

18 Mix Design Targets - Record data from the Job Mix Formula (JMF) on the approved Mix Design.

19 Independent Verification - Enter gradation and volumetric results from the Independent Verification sample.

20 Split Sample - Enter gradation and volumetric data results from the Split Sample, if needed for comparison.

21 Difference - Calculate the difference between the Independent Verification (Item 22) and Comparison Sample (Item 23).

ROADWAY CORES

- 23 Lane** - Record appropriate lane where density core was taken.
- 24 Tons** - Record the random number tonnage for the density core location.
- 25 Station** - Record the station number for the density core location.
- 26 Lift No.** - Record lift number for the pay-item being placed. Example: 1 of 3, 2 of 2, 1 of 1.

ROADWAY CORE Gmb Data

- 27** Record the ID#, Dry Weight, SSD Weight, Weight in Water and Calculate the Gmb. Once all five cores are completed calculate the average.

SGC Pill Gmb & Height Data

- 28** Record the ID#, Dry Weight, SSD Weight, Weight in Water and Calculate the Gmb. Once both pills are completed calculate the average.

MISCELLANEOUS

- 29 Qualified Technician Signature** - To be signed by the Qualified Asphalt Independent Verification Technician.
- 30 Remarks** - Comments pertinent to the production of the asphalt mix which are not shown elsewhere on the worksheet. Document any deficiencies noted in the reviews and corrective action taken.

Asphalt Plant - Daily Report of Quality Control

Date Page No. of

Project ID.:	Pay Item No.:	Material ID.: 123L
Sample Level: Q	Resolution Sample: N	
Destination LabID:	Manfr or Prod:	Plant No.:
Design Mix No.:	Sampled By:	
Date Sampled:	Intended Use:	Performed By:

General Information			Rotational Viscosity for Asphalt Rubber Binder			
Temperature °F / °C	Quantity	This Lot Tons	Blend Type Check one	Asphalt Rubber Grade		
Established	(A) Previous		MATL. #453	Sample #		
Average	(B) Today's		Site <input type="checkbox"/>	LIMS ID		
Maximum	(C) Waste / Misc.		MATL. #452	Test Temp.	°F / °C	°F / °C
Minimum	(D) Adjusted Total (B-C)		Storage <input type="checkbox"/>	Minimum Viscosity	AM	PM
Average of 1st 5	Total (D+A)				poises Pa.s.	poises Pa.s.

Plant Volumetrics											
LIMS Sample ID No.:				LIMS Sample ID No.:				LIMS Sample ID No.:			
Sample No.:				Sample No.:				Sample No.:			
Sample Status (Y/N):				Sample Status (Y/N):				Sample Status (Y/N):			
Gradation and AC Content	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB	Volumetrics	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB
1" (25.0mm)						Max. Grav. (Gmm)					
3/4" (19.0mm)						Avg. Bulk (Gmb)					
1/2" (12.5mm)						Agg Sp Grav (Gsb)					
3/8" (9.5mm)						Hgt. @ N int.					
#4 (4.75mm)						Hgt. @ N des.					
#8 (2.36mm)						Gyrations @ Ndes.					
#16 (1.18mm)						% Gmm @ N int.					
#30 (600 mm)						% Gmm @ N des.					
#50 (300 mm)						% Air Voids @ Nd					
#100 (150 mm)						% VMA @ Ndes.					
#200 (75mm)						% VFA @ Ndes.					
AC %						Dust / Asphalt					
						Gmb @ Ndes.					
						Gse					
						Pba					
						Pbe					

Qualified Technician Signature

Remarks:

Roadway Cores	Core 1 Station	123 +	+	+	+
	Core 1 Gmb				
	Core 2 Station	+	+	+	+
	Core 2 Gmb				
	Core 3 Station	+	+	+	+
	Core 3 Gmb				
	Core 4 Station	+	+	+	+
	Core 4 Gmb				
	Core 5 Station	+	+	+	+
	Core 5 Gmb				
Average Gmb					
% Gmm					

Asphalt Plant - Daily Report of Quality Control

Date **1** Page No. **2** of

Project ID.: 3	Pay Item No.: 4	Material ID.: 123L
Sample Level: Q	Resolution Sample: N	
Destination LabID: 5	Manfr or Prod: 6	Plant No.: 7
Design Mix No.: 8		Sampled By: 9
Date Sampled: 10	Intended Use: 11	Performed By: 12

General Information			Rotational Viscosity for Asphalt Rubber Binder			
Temperature °F / °C		Quantity	This Lot Tons		Blend Type	Asphalt Rubber Grade
Established	13	(A) Previous	18		Check one	25
Average	14	(B) Today's	19		MATL. #453	Sample # 30
Maximum	15	(C) Waste / Misc.	20		Site 23	LIMS ID 26
Minimum	16	(D) Adjusted Total (B-C)	21		MATL. #452	Test Temp. 27 °F / °C
Average of 1st 5	17	Total (D+A)	22		Storage 24	Minimum Viscosity 28 AM
						29 poises Pa.s. PM poises Pa.s.

Plant Volumetrics

Gradation and AC Content	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB	Volumetrics	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB
LIMS Sample ID No.: 26						LIMS Sample ID No.: 26					
Sample No.: 30						Sample No.: 30					
Sample Status (Y/N): 31						Sample Status (Y/N): 31					
			32						32		
1" (25.0mm)	33		34			Max. Grav. (Gmm)	33		35		
3/4" (19.0mm)						Avg. Bulk (Gmb)					
1/2" (12.5mm)						Agg Sp Grav (Gsb)					
3/8" (9.5mm)						Hgt. @ N int.					
#4 (4.75mm)						Hgt. @ N des.					
#8 (2.36mm)						Gyrations @ Ndes.					
#16 (1.18mm)						% Gmm @ N int.					
#30 (600 mm)						% Gmm @ N des.					
#50 (300 mm)						% Air Voids @ Nd					
#100 (150 mm)						% VMA @ Ndes.					
#200 (75mm)						% VFA @ Ndes.					
AC %						Dust / Asphalt					

37
Qualified Technician Signature

Remarks: **38**

Roadway Cores	Core 1 Station	+	+	+	+
	Core 1 Gmb				
	Core 2 Station	+	+	+	+
	Core 2 Gmb				
	Core 3 Station	+	+	+	+
	Core 3 Gmb				
	Core 4 Station	+	+	+	+
	Core 4 Gmb				
	Core 5 Station	+	+	+	+
	Core 5 Gmb				
Average Gmb					
% Gmm					

**INSTRUCTIONS FOR COMPLETION OF
ASPHALT PLANT DAILY REPORT OF QUALITY CONTROL**

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it. All corrections shall be initialed and dated. Use updated forms when they become available.

LIMS SINGLE SAMPLE LOGIN INFORMATION SECTION

- 1 Date** - Indicate the date this report was generated.
- 2 Page Number** - Indicate the page number of this report.
- 3 Fin. Project ID** - Enter the Financial Project ID on which the sampled mix was placed.
- 4 Pay Item No.** - Record the pay item number represented by the report. The pay item number must be written exactly as it appears on the project JOB GUIDE SCHEDULE. If report contains multiple pay-items record additional pay-items in Remarks.
- 5 Destination Lab ID** - Enter the Lab ID (assigned by the Department) that will be receiving and performing the testing of the sample(s).
- 6 Manufacturer or Producer** - Enter the Company Name that actually manufactured or produced the material.
- 7 Plant No.** - Identification number assigned to each approved asphalt plant producing asphalt for the Department.
- 8 Design Mix No.** - Example: SP 97-0008, SP 02-1750A.
- 9 Sampled By (TIN#)** - Record the Technician Identification Number of the person who actually collected the sample.
- 10 Date Sampled** - Date and Time sample was taken, if no sample was taken, date material was produced. The format shall be Month/Day/Year at Hour:Minute (AM) or (PM). (e.g., 02/11/2004 2:30PM)
- 11 Intended use** - Indicate if mix is for Base, Structure, Friction Course etc., and Lane(s), (Mainline only - R1, R2, L1, L2) (e.g., Structural, R1 or Base, L2)
- 12 Performed By (TIN#)** - Record the Technician Identification Number of the person who actually performs the sample testing.

**GENERAL INFORMATION
TEMPERATURE BOX**

°F / °C (CIRCLE APPLICABLE UNITS)

- 13 Established** - Mix temperature established from the approved Mix Design.
- 14 Average** - Average mix temperature for the date the mix was sampled.
- 15 Maximum** - Maximum mix temperature for the date the mix was sampled.
- 16 Minimum** - Minimum mix temperature for the date the mix was sampled.
- 17 Average of First Five Loads** - Record the average temperature of the first five truckloads here. (Record the temperature of the first five loads and at least one load out of every five loads thereafter on the asphalt delivery tickets).
- 18 (A) Previous Quantity / Lot** - Quantity of mix placed before this report for THIS LOT, in tons.
- 19 (B) Today's Quantity / Lot** - Quantity of mix that is shipped to project in this LOT that is represented by this report, in tons.
- 20 (C) Waste / Misc. / Lot** - Record quantity amounts given to you from the road inspector that were not placed on the project (i.e. private, MOT, rejected mix, other) and quantity amounts for miscellaneous asphalt combined by this report.

THIS LOT TONS

- 21 NOTE: Identify individual misc. asphalt and waste quantities in the remarks section.**
- 22 (D) Adjusted Total / Lot** - Today's total adjusted quantity of mix. (D = B - C)
Total Quantity / Lot - Total tonnage of mix for this material. (D + A)

ROTATIONAL VISCOSITY BOX (ASPHALT RUBBER ONLY)

(CIRCLE APPLICABLE UNITS)

- 1/24 Blend Type** - Place a check mark in the box for the type blend you are sampling. Note: This information needs to be reported under a separate LIMS sample and test result screen under material number 452/453.
- 25 Asphalt Rubber Grade** - Record the applicable type of Asphalt Rubber Grade, e.g., ARB-5, ARB-12, ARB-20, etc.
- 26 LIMS Sample ID** - The LIMS Sample ID is a field that is automatically generated by LIMS upon sample login. Once completing the login process record the LIMS Sample IDs here.
- 27-29 Test Results** - Record the temperature, time of day when test was made, and poises or pascal seconds reading for each test. Circle applicable units. Each viscosity test result must be entered into LIMS as an individual sample.

LIMS RESULT ENTRY INFORMATION SECTION

Plant Volumetrics

- 30 Sample No.** - Each report generated can have more than one sample number per day, per mix. A new sample number and report will be required at the beginning of each LOT, per mix. For a project with two or more plants producing asphalt, a new lot must be established and a new report must be written for mix produced at another plant. For Rotational Viscosity each sample number will correspond with the subplot from which it was sampled.

NOTE: Sample numbers cannot be duplicated when using the sample material number on the same project. To prevent duplication, samples should be numbered sequentially, according to mix type and traffic level. Sample numbers should be kept sequentially despite changes in an approved mix design or pay-item. Once a sample number is used for a material number on a project that number cannot be reused. Use a sample number **ONLY** when actually testing a random sample. Use the numbering sequence as follows:

EXAMPLES	OF	SAMPLE	NUMBERS
		Type of Mix	Correct Numbering Sequences
		B-12.5	B2001Q, B2002Q, B2003Q, <-> B2999Q
		FC-9.5	1F001Q, 1F002Q, 1F003Q, <-> 1F999Q
		FC-12.5	2F001Q, 2F002Q, 2F003Q, <-> 2F999Q
		FC-5	5F001Q, 5F002Q, 5F003Q, <-> 5F999Q
		FC-6	6F001Q, 6F002Q, 6F003Q, <-> 6F999Q
		SP-9.5 TL-A	1A001Q, 1A002Q, 1A003Q, <-> 1A999Q
		SP-9.5 TL-B	1B001Q, 1B002Q, 1B003Q, <-> 1B999Q
		SP-9.5 TL-C	1C001Q, 1C002Q, 1C003Q, <-> 1C999Q
		SP-9.5 TL-D	1D001Q, 1D002Q, 1D003Q, <-> 1D999Q
		SP-9.5 TL-E	1E001Q, 1E002Q, 1E003Q, <-> 1E999Q
		SP-12.5 TL-A	2A001Q, 2A002Q, 2A003Q, <-> 2A999Q
		SP-12.5 TL-B	2B001Q, 2B002Q, 2B003Q, <-> 2B999Q
		SP-12.5 TL-C	2C001Q, 2C002Q, 2C003Q, <-> 2C999Q
		SP-12.5 TL-D	2D001Q, 2D002Q, 2D003Q, <-> 2D999Q
		SP-12.5 TL-E	2E001Q, 2E002Q, 2E003Q, <-> 2E999Q
		SP-19.0 TL-A	3A001Q, 3A002Q, 3A003Q, <-> 3A999Q
		SP-19.0 TL-B	3B001Q, 3B002Q, 3B003Q, <-> 3B999Q
		SP-19.0 TL-C	3C001Q, 3C002Q, 3C003Q, <-> 3C999Q
		SP-19.0 TL-D	3D001Q, 3D002Q, 3D003Q, <-> 3D999Q
		SP-19.0 TL-E	3E001Q, 3E002Q, 3E003Q, <-> 3E999Q

- 31 Sample Status** - Do all sample characteristics comply with Table 334-5? Yes or No.
- 32 Lot / Sublot** - Record appropriate Lot number and Sublot number on all reports. Number the Lots **sequentially**. (Use LOT and subplot number separated by a dash. e.g., 4-2 represents LOT 4 Sublot 2)
- 33 Mix Design Targets** - Record data from the Job Mix Formula (JMF) on the approved Mix Design.
- 34 Extraction Results** - List extraction gradation and AC content results in appropriate blanks for each subplot. Results from previous Sublots samples should not be recorded again. (Record all results to two decimal places).

VOLUMETRICS

- 35 Volumetric Data** - List volumetric data in appropriate blanks for each subplot. Results from previous sublots should not be recorded again.

ROADWAY CORES

- 36 Roadway Core Gmb Data** - Record individual specific gravity results (Gmb) from the corresponding

roadway core and the average of the five. Round to the nearest three decimal places (Example: 2.5867 rounds to 2.587). Calculate the %Gmm to the nearest 0.001 as follows: Average Gmb / Gmm * 100 and report to the nearest 0.01, (Example: 91.995% is reported as 92.00%).

Note: Record all five roadway core specific gravity results on the report with the corresponding random sample for that subplot. Identify the station location for each core.

MISCELLANEOUS

37 Qualified Technician Signature - To be signed by the Qualified Asphalt Plant technician performing the sample testing.

38 Remarks - Comments pertinent to the production of the asphalt mix which are not shown elsewhere on the worksheet, e.g., 'Lot 6 closed due to mix design target change', 'baghouse caught fire'

Breakdown of waste tonnage i.e.,
25.0 Misc. Asphalt
+ 25.0 Waste
50.0 Total

NOTE: It is very important to have good communication between the Asphalt Plant Inspector and the Asphalt Road Inspector. Reports should be delivered to the QC technician at the plant no later than one day after completion of the current days production.

Asphalt Plant - Verification Report

Page No. of

Project ID.:	Pay Item No.:	Material ID.:
Sample Level: V	Resolution Sample: N	
Destination LabID:	Manfr or Prod:	Plant No.:
Design Mix No.:	Intended Use:	Performed By:
Quant. Rep:	Unit of Measure: TN	

Plant Volumetrics

LIMS ID:					
Date Sampled:					
Date tested:					
Sample No.:					
Gradation and AC Content	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB
1" (25.0mm)					
3/4" (19.0mm)					
1/2" (12.5mm)					
3/8" (9.5mm)					
#4 (4.75mm)					
#8 (2.36mm)					
#16 (1.18mm)					
#30 (600 μm)					
#50 (300 μm)					
#100 (150 μm)					
#200 (75μm)					
AC %					
Gmm					
Avg. Bulk (Gmb)					
Agg. Spec. Grav.					
Hgt. @ N int.					
Hgt @ N des.					
Gyrations @ Ndes.					
% Gmm @ N int.					
% Gmm @ N des.					
% Air Voids @ Nd					
% VMA @ Ndes.					
% VFA @ Ndes.					
Dust / Asphalt					
Gmb @ Ndes.					
Gse					
Pba					
Pbe					
Roadway Core 1 Gmb : month / day					
Roadway Core 2 Gmb : month / day					
Roadway Core 3 Gmb : month / day					
Roadway Core 4 Gmb : month / day					
Roadway Core 5 Gmb : month / day					
Average Roadway Core Gmb					
% Gmm					

Rotational Viscosity for Asphalt Rubber Binder

Blend Type Check one	Asphalt Rubber Grade			
	LIMS ID			
MATL. #453	Site	<input type="checkbox"/>	Test Temp.	⁰ F / ⁰ C
MATL. #452	Storage	<input type="checkbox"/>	Minimum Viscosity	
			AM	PM
			poises Pa.s.	poises Pa.s.

Pay Factors					<input checked="" type="radio"/> OGFC	<input type="radio"/> Superpave
	3/8 Sieve	No.:4 Sieve	No.:8 Sieve	A/C Content	CPF	

Sample Status (Y / N)

Temperature Verification °F / °C

Established Mix Temperature		
Date	Temperature	Load No.:

Qualified Technician Signature

Remarks: _____

Page 12 of 52

FDOT Forms and Reports

CTQP Asphalt Course - January 2009 Update

Asphalt Plant - Verification Report

Page No. **1** of

Project ID.: 2	Pay Item No.: 3	Material ID.: 123L
Sample Level: V	Resolution Sample: N	
Destination LabID: 4	Manfr or Prod: 5	Plant No.: 6
Design Mix No.: 7	Sampled By: 8	
Intended Use: 9		Performed By: 10
Quant. Rep: 11		Unit of Measure: TN

Plant Volumetrics					
LIMS ID: 12					
Date Sampled: 13					
Date Tested: 14					
Sample No.: 15					
Gradation and AC Content	Mix Design Targets	LOT/SUB	LOT/SUB	LOT/SUB	LOT/SUB
1" (25.0mm)	17			18	
3/4" (19.0mm)					
1/2" (12.5mm)					
3/8" (9.5mm)					
#4 (4.75mm)					
#8 (2.36mm)					
#16 (1.18mm)					
#30 (600 μm)					
#50 (300 μm)					
#100 (150 μm)					
#200 (75μm)					
AC %					
Gmm					
Avg. Bulk (Gmb)					
Agg. Spec. Grav.					
Hgt. @ N int.					
Hgt @ N des.					
Gyrations @ Ndes.					
% Gmm @ N int.					
% Gmm @ N des.					
% Air Voids @ Nd					
% VMA @ Ndes.					
% VFA @ Ndes.					
Dust / Asphalt					
Gmb @ Ndes.					
Gse					
Pba					
Pbe					
Roadway Core 1 Gmb : month / day				19	
Roadway Core 2 Gmb : month / day					
Roadway Core 3 Gmb : month / day					
Roadway Core 4 Gmb : month / day					
Roadway Core 5 Gmb : month / day					
Average Roadway Core Gmb					
% Gmm					

Rotational Viscosity for Asphalt Rubber Binder					
Blend Type Check one		Asphalt Rubber Grade 22			
	LIMS ID: 13				
MATL. #453	Site: 20	Test Temp.			°F / °C
MATL. #452	Storage: 21	Minimum Viscosity	23	AM	PM
			24	poises Pa.s.	poises Pa.s.
Pay Factors 25 <input type="radio"/> OGFC <input type="radio"/> Superpave					
		3/8 Sieve	No.:4 Sieve	No.:8 Sieve	A/C Content
					CPF
Sample Status (Y / N)					26
Temperature Verification °F / °C					
Established Mix Temperature				27	
Date: 28	Temperature: 29		Load No.: 30		
↓	↓	↓			

31
Qualified Technician Signature

Remarks: **32**

INSTRUCTIONS FOR COMPLETION OF ASPHALT PLANT VERIFICATION REPORT

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it . All corrections shall be initialed and dated. Use updated forms when they become available.

LIMS SINGLE SAMPLE LOGIN INFORMATION SECTION

- 1 Page Number** - Indicate the page number of this report.
- 2 Fin. Project ID** - Enter the Financial Project ID on which the sampled mix was placed.
- 3 Pay Item No.** - Record the pay item number represented by the report. The pay item number must be written exactly as it appears on the project JOB GUIDE SCHEDULE.
- 4 Destination Lab ID** - Enter the Lab ID (assigned by the Department) that will be receiving and performing the testing of the sample(s).
- 5 Manufacturer or Producer** - Enter the Company Name that actually manufactured or produced the material.
- 6 Plant No.** - Identification number assigned to each approved asphalt plant producing asphalt for the Department.
- 7 Design Mix No.** - Example: SP 97-0008, SP 02-1750A.
- 8 Sampled By (TIN#)** - Record the Technician Identification Number of the person who actually collected the sample.
- 9 Intended use** - Indicate if mix is for Base, Structure, Friction Course etc., and Lane(s), (Mainline only - R1, R2, L1, L2) (e.g., Structural, R1 or Base, L2)
- 10 Performed By (TIN#):** - Record the Technician Identification Number of the person who actually performs the sample testing.
- 11 Quantity** - This represents the TOTAL LOT quantity (excluding waste) and should be filled in ONLY when the Lot is completed.

PLANT VOLUMETRICS SECTION

- 12 LIMS Sample ID** - The LIMS Sample ID is a field that is automatically generated by LIMS upon sample login. Once completing the login process record the LIMS Sample IDs here.
- 13 Date Sampled** - Date and Time sample was taken, if no sample was taken, date material was produced. (e.g., 7/1/2004 at 10:00pm)
- 14 Date Tested** - Record the date of Verification. (e.g., 7/1/2004)
- 15 Sample No.** - Each sample number will correspond to the Quality Control sample number for each subplot tested.

(e.g., 2B001V corresponds to 2B001Q)

NOTE: Sample numbers cannot be duplicated when using the sample material number on the same project. To prevent duplication, samples should be numbered sequentially, according to mix type and use. Sample numbers should be kept sequentially despite changes in an approved mix design or pay-item. Once a sample number is used for a material number on a project that number cannot be reused. Use the numbering sequence as follows:

EXAMPLES	OF	SAMPLE	NUMBERS
Type of Mix		Correct Numbering Sequences	
B-12.5		B2001V, B2002V, B2003V, <-> B2999V	
FC-9.5		1F001V, 1F002V, 1F003V, <-> 1F999V	
FC-12.5		2F001V, 2F002V, 2F003V, <-> 2F999V	
FC-5		5F001V, 5F002V, 5F003V, <-> 5F999V	
FC-6		6F001V, 6F002V, 6F003V, <-> 6F999V	
SP-9.5 TL-A		1A001V, 1A002V, 1A003V, <-> 1A999V	
SP-9.5 TL-B		1B001V, 1B002V, 1B003V, <-> 1B999V	
SP-9.5 TL-C		1C001V, 1C002V, 1C003V, <-> 1C999V	
SP-9.5 TL-D		1D001V, 1D002V, 1D003V, <-> 1D999V	
SP-9.5 TL-E		1E001V, 1E002V, 1E003V, <-> 1E999V	
SP-12.5 TL-A		2A001V, 2A002V, 2A003V, <-> 2A999V	
SP-12.5 TL-B		2B001V, 2B002V, 2B003V, <-> 2B999V	
SP-12.5 TL-C		2C001V, 2C002V, 2C003V, <-> 2C999V	
SP-12.5 TL-D		2D001V, 2D002V, 2D003V, <-> 2D999V	
SP-12.5 TL-E		2E001V, 2E002V, 2E003V, <-> 2E999V	
SP-19.0 TL-A		3A001V, 3A002V, 3A003V, <-> 3A999V	
SP-19.0 TL-B		3B001V, 3B002V, 3B003V, <-> 3B999V	
SP-19.0 TL-C		3C001V, 3C002V, 3C003V, <-> 3C999V	
SP-19.0 TL-D		3D001V, 3D002V, 3D003V, <-> 3D999V	
SP-19.0 TL-E		3E001V, 3E002V, 3E003V, <-> 3E999V	

16 Lot / Sublot - Record appropriate Lot number and Sublot number on all reports (even if no tests is run).

Number the Lots sequentially according to material number, even if there is no change in the mix design.

NOTE: DO NOT record extraction results from previous reports.

17 Mix Design Target - Record data from the Job Mix Formula (JMF) on the approved Mix Design.

18 Plant Volumetrics - List extraction/ gradation and volumetric results in appropriate blanks for each subplot.

Results from previous Sublots samples should not be recorded again. (Record all results to two decimal places).

19 Roadway Core Gmb Data - Record individual specific gravity results (Gmb) from the corresponding roadway core, and the average of the five. Round to the nearest three decimal places (Example: 2.5867 rounds to 2.587).

Calculate the %Gmm to the nearest 0.001 as follows: Average Gmb / Gmm * 100 and report to the nearest 0.01, (Example: 91.998% is reported as 92.00%).

Note: Record all five roadway core specific gravity results on the report with the corresponding random sample for that subplot.

ROTATIONAL VISCOSITY BOX (ASPHALT RUBBER ONLY)

(CIRCLE APPLICABLE UNITS - PERFORM TEST ONCE PER LOT)

20/21 Blend Type - Place a check mark in the box for the type blend you are sampling. Note: this information needs to

be reported under a separate CQR sample and test result screen under material number 453B or 452B.

(The COPY command can be used for most sample data in CQR)

22 Asphalt Rubber Grade - Record the applicable type of Asphalt Rubber Grade, e.g., ARB-5, ARB-12, ARB-20,

etc.

23-24 Test Results - Record the temperature, time of day when test was made, and poises or pascal seconds reading for each test. Circle applicable units. Note: Record additional test results in the remarks section.

PAY FACTORS SECTION

25 Pay Factors - Enter the pay factors for each applicable property and the Composite Pay Factor (CPF) for the LOT from the Pay Factor Calculations Worksheet. Using the boxes select OGFC (Opened Graded Friction Course) or Superpave and click the circle.

26 Sample Status - Is the Composite Pay Factor (CPF) greater than or equal to 0.90? Yes or No.

TEMPERATURE VERIFICATION

(CIRCLE APPLICABLE UNITS)

- 27 Established Mix Temp.** - Mix temperature established on the approved Mix Design.
- 28 Date** - Record date of Temperature Verification.
- 29 Temperature** - Record temperature from various trucks throughout LOT, according to frequency set forth in CPAM Section 5.1 Section 11.3
- 30 Load No.** - Record Load No. of truck that the Temperature was taken, according to frequency set forth in CPAM Section 5.10 Section 11.3

MISCELLANEOUS

- 31 Qualified Technician Signature** - To be signed by the Qualified Asphalt Plant technician performing the sample testing.
- 32 Remarks** - Comments pertinent to the production of the asphalt mix which are not shown elsewhere on the worksheet, any deficiencies noted at the plant or lab and any corrective actions taken.

NOTE: It is very important to have good communication between the Asphalt Plant Inspector and the Asphalt Road Inspector. Reports should be delivered to the verification technician at the plant no later than one after completion of the Lot.

Asphalt Roadway - Daily Report of Quality Control

Date _____ Page No. _____ of _____

Fin. Project ID: _____ Material No. / ID: _____ Type of Mix: _____ Mix Design No.: _____

Intended use: _____ Plant No.: _____ Lot No.: _____ Intended Lot Size: _____

Sublot	Lanes / Lift # of #	Station To Station		Loads	Linear Ft	Width	SY	Tons	Spread
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						
		+	+						

Record Of Bituminous Materials				Total=	
				Average Spread Rate =	
Pay Item No.				Target Spread Rate =	
Grade Of Asphalt				Paving Completed	
FDOT Calibration Tank No.				Pay Item	
Beginning IN				Measured In	Tons
Gallons				Prev. Adj. Tot.	SY
Ending IN				Today's	This Lot
Gallons				Total	
Time of Day after Unloading				Waste	
Temperature F				Adj. Total	
Net Hot Gallons				LOT Density Calculations	
Correction Factor				Density Required	
Prev. Gallons @ 60F				Prev. Tons	Established
Today Gallons @ 60F				Today's	Average
Accum. Gallons @ 60F				Total	Maximum
SY Covered				No Density Required	
Spread Rate Gal/SY				Prev. Tons	Minimum
				Today's	Average of 1st 5
				Total	

Qualified Technician ID# (TIN)

Remarks: _____

Asphalt Roadway - Daily Report of Quality Control

Date **1** Page No. **2** of

Fin. Project ID: **3** Material No. / ID: **4** Type of Mix: **5** Mix Design No.: **6**

Intended use: **7** Plant No.: **8** Lot No.: **9** Intended Lot Size: **10**

Sublot	Lanes / Lift # of #	Station To Station	Loads	Linear Ft.	Width	SY	Tons	Spread
11	12	13	14	15	16	17	18	19

Record Of Bituminous Materials				Total=		20	21
				Average Spread Rate =		22	
				Target Spread Rate =		23	

Pay Item No.	24			Paving Completed									
Grade Of Asphalt	25			Pay Item									
FDOT Calibration Tank No.	26			40									
Beginning Inch / MM	27			Measured In	Tons		SY		This Lot				
Gallons / Liters	28			Prev. Adj. Tot.	41				52				
Ending Inch / MM	29			Todays	42								
Gallons / Liters	30			Total	43								
Time of Day after Unloading	31	AM	PM	Waste	44								
Temperature °C / °F	32			Adj. Total	45								
Net (HOT) Gallons / Liters	33			LOT Density Calculations				Temperature °F / °C					
Correction Factor	34			Density Required				Established	53				
Prev. Gallons / Liters @ 60°F / 15°C	35			Prev. Tons	46			Average	54				
Today's Gallons / Liters @ 60°F / 15°C	36			Todays	47			Maximum	55				
Accum. Gallons / Liters @ 60°F / 15°C	37			Total	48			Minimum	56				
SY / SM Covered	38			No Density Required				Average of 1st 5	57				
Spread Rate Gal/SY L/SM	39			Prev. Tons	49								
				Todays	50								
				Total	51								

58
Qualified Technician ID# (TIN)

Remarks: **59**

**INSTRUCTIONS FOR COMPLETION OF THE
ASPHALT ROADWAY DAILY REPORT OF QUALITY CONTROL**

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it. All corrections shall be initialed and dated. Use updated forms when they become available.

INFORMATION SECTION

- 1 Date** - Enter the date this report was generated.
- 2 Page Number** - Indicate the page number of this report.
- 3 Fin. Project ID** - Enter the Financial Project ID on which the sampled mix was placed.
- 4 Material No.** - A four-character code obtained from the JOB GUIDE SCHEDULE that identifies each material / test.
- 5 Type of Mix** - Indicate asphalt mix type, e.g., FC-6, SP 12.5, B-12.5.
- 6 Mix Design No.** - Example: SP 97-0008, SP 02-1750A.
- 7 Intended use** - Indicate if mix is for Base, Structure, Friction Course etc, and Lane(s), (Mainline only - R1, R2. L1, L2) (e.g., Structural, R1 or Base, L2)
- 8 Plant No.** - Enter the Plant No. from which the mix is being produced.
- 9 Lot #** - Enter the Lot represented by this report.
- 10 Intended Lot Size** - Enter the intended lot size (2000 or 4000).

RECORD OF MIX PLACEMENT

- 11 Sublot #** - Enter the Sublot # from which the spread rate was taken.
- 12 Lanes / Lift # of #** - The lane where the mix was placed. Right or left should be determined by standing on the centerline of the median, facing the direction of increasing stations, and number the lanes L1, L2, L3, etc, or R1, R2, R3 etc. This indicates that lane L1 is the first lane to the left of the centerline. Center lanes should be identified with the letter C. Shoulders can be identified IL (inside left), OL (outside left), IR (inside right) and OR (outside right), RTL (right turn lane), LTL (left turn lane). Record the lift # of # here. ("L1 / 1 of 2" would indicate Lane 1 lift 1 of 2)
- 13 Station to Station** - The beginning and ending stations of the reports construction. With multiple lanes being placed, this may vary and more than one line may be used.

For example: 18 + 50 Ending Station
 13 + 20 Beginning Station
 530 feet Distance

- 14 Loads** - The load number(s) from the delivery tickets of the mix placed in this area.
- 15 Linear Feet / Meters** - The number of linear feet / meters in each area.
- 16 Lane Width** - The width of the lane being placed, in feet or meters. If the width is not constant enter an average width.
- 17 SY / SM** - The number of square yards in each area. Record to the hundredth.
- 18 Tons / MT** - The number of tons in each area. Record to nearest hundredth.
- 19 Spread** - Monitor the mix spread rate at the beginning of each day's production, and as needed to control the operations, at a minimum of once per 200 tons (200 metric tons) placed to ensure that the spread rate is within 5% of the target spread rate. Note the spread rate on the form for each 200 tons (200 metric tons). Record each entry to the tenth. Also provide average spread for the mix being placed. Units: lb/yd², kg/m².
- 20 Total Square Yards** - Enter the total square yards for this days production.
- 21 Total Tons** - Enter the total tons for this days production.
- 22 Average Spread Rate** - The average spread for the report. Total for today's production. If density is not required, record average spread for mix being placed. Units: lb/yd², kg/m²
- 23 Target Spread Rate** - Refer to the typical section of the plans for your project. For tolerances refer to section 330-2.2.

RECORD OF BITUMINOUS MATERIALS BOX

- 24 Pay Item No.** - Record the pay item number for this shot of liquid asphalt.
- 25 Grade of Asphalt** - Type liquid being used i.e., RS, AEP, AC, ARB, etc.
- 26 FDOT Calibration Tank Number** - Obtain from approved F.D.O.T calibration chart, match serial number from frame or tank of distributor.
- 27 Beginning Measurement** - Distributor tank Measurement to the nearest 1/16 inch or nearest millimeter at beginning of production or every time tank is refilled.
- 28 Gallons / Liters** - Record the amount of liquid in the tank at the beginning of production by using the certified calibration chart
- 29 End Measurement** - Distributor tank measurement at end of production to the nearest 1/16 inch or nearest millimeter.
- 30 Gallons / Liters** - Record the amount of liquid in the tank at the end of production by using the approved calibration chart.
- 31 Time of Day** - Record the time when ending readings were taken. Circle AM or PM.
- 32 Temperature** - Record the temperature of the liquid asphalt in the distributor.
- 33 NET Hot Gallons / Liters** - Record the measured amount of liquid asphalt used. Net Hot Gallons (or Liters) equals Item #28 minus Item #30.
- 34 Correction Factor** - Obtain this from the appropriate chart for this liquid asphalt. (See Construction Training Qualification Program (C.T.Q.P.) Asphalt Paving Level 2 manual).
- 35 Previous Gallons / Liters @ 60° F / 15° C** - Adjusted total quantity of liquid asphalt placed before this report, Record to the hundredth.
- 36 Today's Gallons / Liters @ 60° F / 15° C** - Calculate and record, Item 33 x Item 34. Record to the hundredth.
- 37 Accumulated Gallons / Liters @ 60° F / 15° C** - Calculate and record, Item 35 + Item 36. Record to the hundredth.
- 38 SY / SM Covered** - Compute and enter the area covered by the liquid asphalt.
- 39 Spread Rate** - Item #36 / Item #38. Circle either GAL/SY or L/SM. Note: Determine the rate of application at the beginning of each day's production, and as needed to control the operation, a minimum of twice per day. Control the rate within +or- 0.01 gallons per square yard.

PAVING COMPLETED BOX

- 40 Pay Item No.** - Record the pay item number represented by the report. The pay item number must be written exactly as it appears on the project JOB GUIDE SCHEDULE.
- 41 Previous Quantity** - Adjusted total quantity of mix placed before this report, In Tons, square yards / square meters for the applicable pay-item. Record to the hundredth.
- 42 Today's Quantity** - Quantity of mix shipped to project that is represented by this report under the applicable pay-item, in tons, square yards / square meters for this Lot. Record to the hundredth. NOTE: If the area to be placed requires more than one lift, the square yards / square meters reported must be prorated as follows:

English Units

Area being placed=41,438.62sy

Example: First Lift (1.25") of a two inch (2") item:

$$41,438.62 \text{ sy} \times (1.25" / 2.00") = 25,899.14 \text{ sy}$$

Example: The second lift would then be 0.75" (2" - 1.25") of the total 2" item:

$$41,438.62 \text{ sy} \times (0.75" / 2.00") = 15,539.48 \text{ sy}$$

Metric Units

Area being placed=41,438.62sm

Example: First Lift (31mm) of a 50mm item:

$$41,438.62 \text{ sm} \times (31\text{mm} / 50\text{mm}) = 25,691.94 \text{ sm}$$

Example: The second lift would then be 19mm (50mm - 31mm) of the total 50mm item:

$$41,438.62 \text{ sm} \times (19\text{mm} / 50\text{mm}) = 15,746.67 \text{ sm}$$

43 Total Quantity - Add items #41 and #42. Record to the hundredth.

44 Waste/Misc. - The amount of material delivered but not placed for pay on the project for the day recorded as tons / metric tons and square yards / square meters and quantity amounts from miscellaneous asphalt. (i.e. Private, MOT, Rejection of Poor Quality, Other.)

45 Adjusted Total - Total adjusted quantity of mix. Subtract Item #44 from Item #43.

LOT DENSITY CALCULATIONS

DENSITY REQUIRED

46 Previous Tons - Total quantity of mix placed before this report that required density, In Tons for THIS LOT.

47 Today's Tons - Total quantity of mix placed that is represented by this report that required density, In Tons for THIS LOT.

48 Total Quantity - Add items #46 and #47. Record to the hundredth. After completion of the LOT restart Previous Tons at 0.

NO DENSITY REQUIRED

49 Previous Tons - Total quantity of mix placed before this report that required NO density, In Tons for THIS LOT.

50 Today's Tons - Total quantity of mix placed that is represented by this report that required NO density, In Tons for THIS LOT.

Note: Miscellaneous asphalt will not be shown here.

51 Total Quantity - Add items #49 and #50. Record to the hundredth. After completion of the LOT restart Previous Tons at 0.

THIS LOT

52 This Lot - (optional) - it is intended to assist in tracking the progress of the lot and aid in random sampling within the lot.

TEMPERATURES

53 Established - Mix temperature established on the approved Mix Design.

54 Average - Average mix temperature taken at the roadway for the date the mix was sampled.

55 Maximum - Maximum mix temperature for the date the mix was sampled.

56 Minimum - Minimum mix temperature for the date the mix was sampled.

57 Average of First Five Loads - Record the average temperature of the first five truckloads here. (Record the temperature of the first five loads and at least one load out of every five loads thereafter on the asphalt delivery tickets.)

MISCELLANEOUS

58 Qualified Technician ID# - Record the Qualified Asphalt Roadway Inspector TIN (First nine characters of Florida ID# / Drivers License Number).

59 Remarks - Examples of remarks - "Time Began:", "Time Completed:" (Note time and causes of interruptions), "No density required, initial layer of asphalt base over soil subgrade, overbuild course with variable thicknesses less than one inch, "No density required, intermediate course less than one inch, "No density required, limits of project is less than 1000 feet, see Standard Specification 334-5.1", "Paving after or during rain", "Night Paving", "Areas with problems and corrective actions", "Breakdown of waste tonnage".,

25.0 Misc. Asphalt

+ 25.0 Waste

50.0 Total

More specific descriptions of where the material was placed can also be shown here - Example: L2 126 + 43 to 128 + 57, R4 1288 + 32 to 1333 + 00, C 132 + 25 to 139 + 45, etc.

NOTE: It is very important to have good communication between the Asphalt Plant Inspector and the Asphalt Road Inspector. Reports should be delivered to the QC technician at the plant no later than one day after completion of the current days production.

State of Florida Department of Transportation
Asphalt Roadway - Daily Report of Quality Control

FIN ID (Project #)	
TIN#	

LOT #	1
Mix Design #	

Email Form Feedback to:
SM-AsphaltForms@dot.state.fl.us

Constant Width Areas																	BASE ONLY			
#	Date Paved	Sub Lot	Truck Load #s	Intended Use	Density ?	Lane	Desc.	Lift # of #	Start Paving at Station	End Paving at Station	Length (FT)	Width (FT)	Area Paved (SY)	Quantity (TN)	Actual Spread Rate (LB/SY)	Target Spread Rate (LB/SY)	Individual Lift Thickness (in)	Total Thickness (in)	Prorated Base (SY)	

Varied Width Areas																				
#	Date Paved	Sub Lot	Truck Load #s	Intended Use	Density ?	Lane	Desc.	Lift # of #	Start Paving at Station	End Paving at Station	Length (FT)	Width (FT)	Area Paved (SY)	Quantity (TN)	Actual Spread Rate (LB/SY)	Target Spread Rate (LB/SY)	Individual Lift Thickness (in)	Total Thickness (in)	Prorated Base (SY)	

Asphalt Roadway - Verification Report

Page No. of

Fin. Project ID:	Material No.:	Type of Mix:	Mix Design No.:
Intended use:	Plant No.:	Lot No.:	Intended Lot Size:

Verification of Spread Rate					Verification Results Y/N					
Date	Sublot	Lane / Lift # of #	Station To Station		Loads	Linear Ft	Width	SY	Tons	Spread
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						
			+	+						

Verification of Tack					Target Spread Rate				
Record Of Bituminous Materials					Verification of Established Temp.				
					Verification Results Y/N				
Date	Sublot				Date	Sub.	Load No.	Temp.	
Pay Item No.									
Grade Of Asphalt									
FDOT Calibration Tank No.									
Beginning IN									
Gallons									
Ending IN									
Gallons									
Time of Day after Unloading		AM PM	AM PM	AM PM	AM PM				
Temperature F									
Net Hot Gallons									
Correction Factor									
Gallons @ 60F									
SY Covered									
Spread Rate Gal/SY									
Verification Results									

Remarks	Qualified Technician ID# (TIN)
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Asphalt Roadway - Verification Report

Page No. **1** of _____

Fin. Project ID: 2	Material No.: 3	Type of Mix: 4	Mix Design No.: 5
Intended use: 6	Plant No.: 7	Lot No.: 8	Intended Lot Size: 9

Verification of Spread Rate

Verification Results Y/N 20

Date	Sublot	Lane / Lift # of #	Station To Station	Loads	Linear Ft.	Width	SY / SM	Tons	Spread
10	11	12	13	14	15	16	17	18	19

Record of Bituminous Materials Verification

Verification of Established Temperature 35

Verification Results Y/N

Date	10							Date	Sub.	Load No.	Temp.	20
Sublot	11							10	11	36	37	20
Pay Item No.	21											
Grade Of Asphalt	22											
FDOT Calibration Tank No.	23											
Beginning Inch / MM	24											
Gallons / Liters	25											
Ending Inch / MM	26											
Gallons / Liters	27											
Time of Day after Unloading	28	AM PM	AM PM	AM PM	AM PM	AM PM	AM PM					
Temperature °C / °F	29											
Net (HOT) Gallons / Liters	30											
Correction Factor	31											
Gallons / Liters @ 60°F / 15°C	32											
SY / SM Covered	33											
Spread Rate Gal/SY L/SM	34											
Verification Results	20											

38

Qualified Technician ID# (TIN)

Remarks

39

INSTRUCTIONS FOR COMPLETION OF THE ASPHALT ROADWAY VERIFICATION REPORT

Erasures are not allowed. Mistakes shall have a single line through the original data with the correct entry written close to it. All corrections shall be initialed and dated. Use updated forms when they become available.

HEADER INFORMATION SECTION

- 1 **Page Number** - Indicate the page number of this report.
- 2 **Fin. Project ID** - Enter the Financial Project ID on which the sampled mix was placed.
- 3 **Material No.** - A four-character code obtained from the JOB GUIDE SCHEDULE that identifies each material / test.
- 4 **Type of Mix** - Indicate Asphalt mix type, e.g., FC-6, SP-12.5, B-12.5.
- 5 **Mix Design No.** - Example: SP 97-0008, SP 02-1750A.
- 6 **Intended use** - Indicate if mix is for Base, Structure, Friction Course etc.,.
- 7 **Plant No.** - Enter the Plant No. from which the mix is being produced.
- 8 **Lot #** - Enter the Lot represented by this report.
- 9 **Intended Lot Size** - Enter the intended lot size (2000 or 4000).

VERIFICATION OF SPREAD RATE

- 10 **Date** - Enter date of Verification.
- 11 **Sublot #** - Enter the Sublot of Verification.
- 12 **Lane / Lift # of #** - The lane where the mix (milling) was placed. Right or left should be determined by standing on the centerline of the median, facing the direction of increasing stations, and number the lanes L1, L2, L3, etc, or R1, R2, R3 etc. This indicates that lane L1 is the first lane to the left of the centerline. Center lanes should be identified with the letter C. Shoulders can be identified IL (inside left), OL (outside left), IR (inside right) and OR (outside right). RTL (right turn lane), LTL (left turn lane). Record the lift # of # here. ("L1 / 1 of 2" would indicate Lane 1 lift 1 of 2)
- 13 **Station to Station** - The beginning and ending stations of the reports construction. With multiple lanes being placed, this may vary and more than one line may be used.
- 14 **Loads** - The load number(s) from the delivery tickets of the mix placed in this area.
- 15 **Linear Feet / Meters** - The number of linear feet being verified.
- 16 **Lane Width** - The width of the lane being placed, in feet. If the width is not constant a drawing or diagram must be included on the back of the report or attached so that the area can be verified. Determine average width from drawing, use "sy*9/length". Example 26.50 sy X 9 / 45 = 5.3. (26.50sy calculated from drawing, 45' length)
- 17 **SY / SM** - The number of square yards or square meters in the area being verified. Record to the hundredth.
- 18 **Tons / MT** - The number of tons in the area being verified. Record to nearest hundredth
- 19 **Spread** - The average spread of the area being verified must be calculated by using an average of 5 truckloads of mix. Record to the tenth, average spread for mix being placed and check with the contractor's QC results. Units: lb/yd², kg/m².
- 20 **Verification Results** - If measurement "Meets" tolerance, record "Y" for "Yes". If measurement is outside allowable tolerance record "N" for "No". See specification 330 and 300.

RECORD OF BITUMINOUS MATERIALS BOX

- 21 **Pay Item No.** - Record the pay item number for this shot of liquid asphalt.
- 22 **Grade of Asphalt** - Type liquid being used (i.e., RS, AEP, AC, etc.)
- 23 **FDOT Calibration Tank Number** - Obtain from approved F.D.O.T calibration chart / obtain from frame or tank of distributor.
- 24 **Beginning Measurement** - Distributor tank Measurement to the nearest 1/16 inch or nearest millimeter at beginning of production or every time tank is refilled.
- 25 **Gallons / Liters** - Record the amount of liquid in the tank at the beginning of production by using the certified calibration chart

- 26 End Measurement** - Distributor tank measurement at end of production to the nearest 1/16 inch or nearest millimeter.
- 27 Gallons / Liters** - Record the amount of liquid in the tank at the end of production by using the certified calibration chart.
- 28 Time of Day After Unloading** - Record the time when ending readings were taken. Circle AM or PM.
- 29 Temperature** - Record the temperature of the liquid asphalt in the distributor.
- 30 NET Hot Gallons / Liters** - Record the measured amount of liquid asphalt used. Net Hot Gallons (or Liters) equals Item 25 minus Item 27.
- 31 Correction Factor** - Obtain this from the appropriate chart for this liquid asphalt. (See Construction Training Qualification Program (C.T.Q.P.) Asphalt Paving Level 2 manual).
- 32 Gallons / Liters @ 60° F / 15° C** - Calculate and record, Item 30 x Item 31. Record the hundredth.
- 33 SY / SM Covered** - Compute and enter the area covered by the liquid asphalt.
- 34 Spread Rate** - Item 32 / Item 33.

TEMPERATURES

- 35 Established** - Mix temperature established on the approved Mix Design.
- 36 Load No** - Record Load No. from which the temperature is taken according to procedures set forth in CPAM section 11.3
- 37 Temperature** - Record temperature from various trucks throughout the LOT according to procedures set forth in CPAM section 5.10 and Section 11.3.
- 38 Qualified Technician ID#** - Record the Qualified Asphalt Roadway Inspector TIN (First nine characters of Florida ID# / Drivers License Number).
- 39 Remarks** - Examples of remarks - "Time Began", "Time Completed", "Any deficiencies being found during verification operation", "Contractor's corrective action". (Note time and causes of interruptions),

More specific descriptions of where the material was placed can also be shown here - Example: L2 126 + 43 to 128 + 57, R4 1288 + 32 to 1333 + 00, C 132 + 25 to 139 + 45, etc.

NOTE: It is very important to have good communication between the Asphalt Plant Inspector and the Asphalt Road Inspector. Reports should be delivered to the verification technician at the plant no later than one day after completion of the Lot.

Asphalt Plant - Random Number Worksheet for Plant Samples

Specification Version(s) 7/05	Project Information		
Contractor:			Fin. Project ID:
Mix Type:	Design No.:	Plant No.:	Generated By:
LOT #:	Lot Size: 2000	Tons/sublot: 500	Date Generated:
Width:	Proj. Description:		

Plant Sample Random Numbers

QC Samples		
Sublot	(tons)	Truck No., Load No., Ticket No.
1	210	
2	516	
3	1332	
4	1757	

Verification Sublot	
4	

Comments: _____

Florida Department of Transportation

Asphalt Plant - Random Number Worksheet for Roadway Density Cores

Specification Version 07/01/02		Project Information	
Contractor:			Fin. Project ID:
Mix Type:	Design No.:	Plant No.:	Reported By:
LOT #:	Lot Size: 2000	Tons/sublot: 500	Date Reported:
Width	Proj. Description:		

Roadway Density Core Random Numbers			
CORE ID#	(tons)	Offset (ft)	Station Number / Lift # of #
- 1 - 1	23	#####	
- 1 - 2	145	#####	
- 1 - 3	296	#####	
- 1 - 4	378	#####	
- 1 - 5	461	#####	
- 2 - 1	533	#####	
- 2 - 2	641	#####	
- 2 - 3	755	#####	
- 2 - 4	808	#####	
- 2 - 5	919	#####	
- 3 - 1	1048	#####	
- 3 - 2	1185	#####	
- 3 - 3	1291	#####	
- 3 - 4	1368	#####	
- 3 - 5	1464	#####	
- 4 - 1	1548	#####	
- 4 - 2	1672	#####	
- 4 - 3	1740	#####	
- 4 - 4	1886	#####	
- 4 - 5	1969	#####	

Comments: _____

Asphalt Plant - Lot Verification and Pay Factor Worksheet for Superpave Mixtures

Specification Version(s) 7/05	Project Information				
Contractor:				Fin. Project ID:	
Mix Type: Fine	Design No.:	Plant No.:		Reported By:	
LOT #:	Intended Tons: 2000	Actual Tons: 2000	Date Reported:		
Verification subplot:	Start Date:	End Date:	Tons in this lot requiring no density:		0.0%
Proj. Description:					

Lot Verification					
Property	P ₋₈	P ₋₂₀₀	P _b	Rice G _{mm}	Lab G _{mb}
QC					
Verification					
Tolerance					
Property	Core 1 G _{mb}	Core 2 G _{mb}	Core 3 G _{mb}	Core 4 G _{mb}	Core 5 G _{mb}
QC					
Verification					
Tolerance					

Lot Pay Factor Calculations					
Property	P ₋₈	P ₋₂₀₀	P _b	V _a	Density
Sublot 1					
Sublot 2					
Sublot 3					
Sublot 4					
Sublot 5					
Sublot 6					
Target					
n=					
Mean					
SD					
Q _u					
P _u					
Q _l					
P _l					
PWL					
PF					
Note: Sublot values which appear in RED are outside of the Master Production Range as specified in Table 334-4, refer to 334-5.4.4.			Composite Pay Factor		

Comments:

Asphalt Plant - Lot Verification and Pay Factor Worksheet for Open Graded Mixtures

Specification Version(s) 7/05		Project Information				
Contractor:					Fin. Project ID:	
Mix Type:	Design No.:	Plant No.:	Reported By:	Date Reported:		
LOT #:	Intended Tons: 2000	Actual Tons: 2000	Start Date:	End Date:		
Verification subplot:	Proj. Description:					

Lot Verification				
Property	$P_{3/8}$	$P_{\#4}$	$P_{\#8}$	P_b
QC				
Verification				
Difference				
Average				
Max Diff				
Tolerance				

Lot Pay Factor Calculations				
Property	$P_{3/8}$	$P_{\#4}$	$P_{\#8}$	P_b
Sublot 1				
Sublot 2				
Sublot 3				
Sublot 4				
Sublot 5				
Sublot 6				
Target				
n=				
Mean				
SD				
Q_u				
P_u				
Q_l				
P_l				
PWL				
PF				
Note: Sublot values which appear in RED are outside of the Master Production Range as specified in Table 337-2, refer to 337-6.3.1.			Composite Pay Factor	

Comments:

Asphalt Plant - Lot Verification and Pay Factor Worksheet for Asphalt Treated Permeable Base

Specification Version(s) 7/05		Project Information			
Contractor:				Fin. Project ID:	
Mix Type:	Design No.:	Plant No.:	Reported By:	Date Reported:	
LOT #:	Intended Tons: 2000	Actual Tons: 2000	Start Date:	End Date:	
Verification subplot:	Proj. Description:				

Lot Verification			
Property	<input type="radio"/> P _{1/2} (#57 stone)	<input checked="" type="radio"/> P _{3/8} (#67 stone)	P _b
QC			
Verification			
Difference			
Average			
Max Diff			
Tolerance			

Lot Pay Factor Calculations		
Property	P _{3/8} (#67 stone)	P _b
Sublot 1		
Sublot 2		
Sublot 3		
Sublot 4		
Sublot 5		
Sublot 6		
Target		
n=		
Mean		
SD		
Q _u		
P _u		
Q _l		
P _l		
PWL		
PF		

Note: Sublot values which appear in **RED** are outside of the Master Production Range as specified in Table 337-2, refer to 337-6.3.1.

	Composite Pay Factor
--	-----------------------------

Comments:

Asphalt Plant -Verification / Resolution Worksheet for AC Content and Gradation

Specification Version(s) 7/05		Project Information				
Contractor:					Fin. Project ID:	
Mix Type:	Design No.:		Plant No.:		Reported By:	
LOT #:	Intended Tons: 2000		Actual Tons: 2000		Date Reported:	
Verification subplot:	Start Date:	End Date:		Purpose: <input type="checkbox"/> Verification <input type="checkbox"/> Resolution		
Proj. Description:				Use for pay: <input type="checkbox"/> Quality Control <input type="checkbox"/> Resolution		

Gradation Tolerance Check							
Sieve		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

Gradation Tolerance Check							
Sieve		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

P _b Tolerance Check							
		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

G _{mm} Tolerance Check							
		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

Lab G _{mb} Tolerance Check							
		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

Comments:

Asphalt Plant -Verification / Resolution Worksheet for AC Content and Gradation

Specification Version(s) 7/05		Project Information					
Contractor:					Fin. Project ID:		
Mix Type:		Design No.:		Plant No.:		Reported By:	
LOT #:		Intended Tons: 2000		Actual Tons: 2000		Date Reported:	
Verification subplot:		Start Date:	End Date:		Purpose: <input type="checkbox"/> Verification <input type="checkbox"/> Resolution		
Proj. Description:					Use for pay: <input type="checkbox"/> Quality Control <input type="checkbox"/> Resolution		

Gradation Tolerance Check							
Sieve		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

Gradation Tolerance Check							
Sieve		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

Gradation Tolerance Check							
Sieve		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

P _b Tolerance Check							
		Sublot 1	Sublot 2	Sublot 3	Sublot 4	Sublot 5	Sublot 6
QC							
Verification							
Tolerance							

Comments:

Asphalt Plant -Verification / Resolution Worksheet for Roadway Density Cores

Specification Version(s) 7/05	Project Information			
Contractor:			Fin. Project ID:	
Mix Type:	Design No.:	Plant No.:	Reported By:	
LOT #:	Intended Tons: 2000	Actual Tons: 2000	Date Reported:	
Verification subplot:	Start Date:	End Date:	Purpose: <input type="checkbox"/> Verification <input type="checkbox"/> Resolution	
Proj. Description:			Use for pay: <input type="checkbox"/> Quality Control <input type="checkbox"/> Resolution	

Sublot 1					
	Core 1	Core 2	Core 3	Core 4	Core 5
QC					
VT / RT					
Tolerance					

Sublot 2					
	Core 1	Core 2	Core 3	Core 4	Core 5
QC					
VT / RT					
Tolerance					

Sublot 3					
	Core 1	Core 2	Core 3	Core 4	Core 5
QC					
VT / RT					
Tolerance					

Sublot 4					
	Core 1	Core 2	Core 3	Core 4	Core 5
QC					
VT / RT					
Tolerance					

Sublot 5					
	Core 1	Core 2	Core 3	Core 4	Core 5
QC					
VT / RT					
Tolerance					

Sublot 6					
	Core 1	Core 2	Core 3	Core 4	Core 5
QC					
VT / RT					
Tolerance					

Comments:

Asphalt Resolution Report
Date

Fin. Project ID.:	Pay Item No.:	Material ID.: 123L
Sample Level: V	Resolution Sample: Y	
Destination Lab ID:	Manfr. or Prod:	Plant No.:
Design Mix No.:	Sampled By:	
	Intended Use:	Performed By:
	Quantity Rep.:	Unit of Measure: TN

Plant Volumetrics

Gradation and AC Content	LIMS ID	Date Sampled	Date Tested	Sample No.	Mix Design Targets
					Lot/Sub
					Lot/Sub
					Lot/Sub
1" (25.0mm)					
3/4" (19.0mm)					
1/2" (12.5mm)					
3/8" (9.5mm)					
#4 (4.75mm)					
#8 (2.36mm)					
#16 (1.18mm)					
#30 (600 μm)					
#50 (300 μm)					
#100 (150 μm)					
#200 (75μm)					
AC %					
Gmm					
Avg. Bulk (Gmb)					
Roadway Core 1 Gmb					
Roadway Core 2 Gmb					
Roadway Core 3 Gmb					
Roadway Core 4 Gmb					
Roadway Core 5 Gmb					

Qualified Technician Signature

Remarks

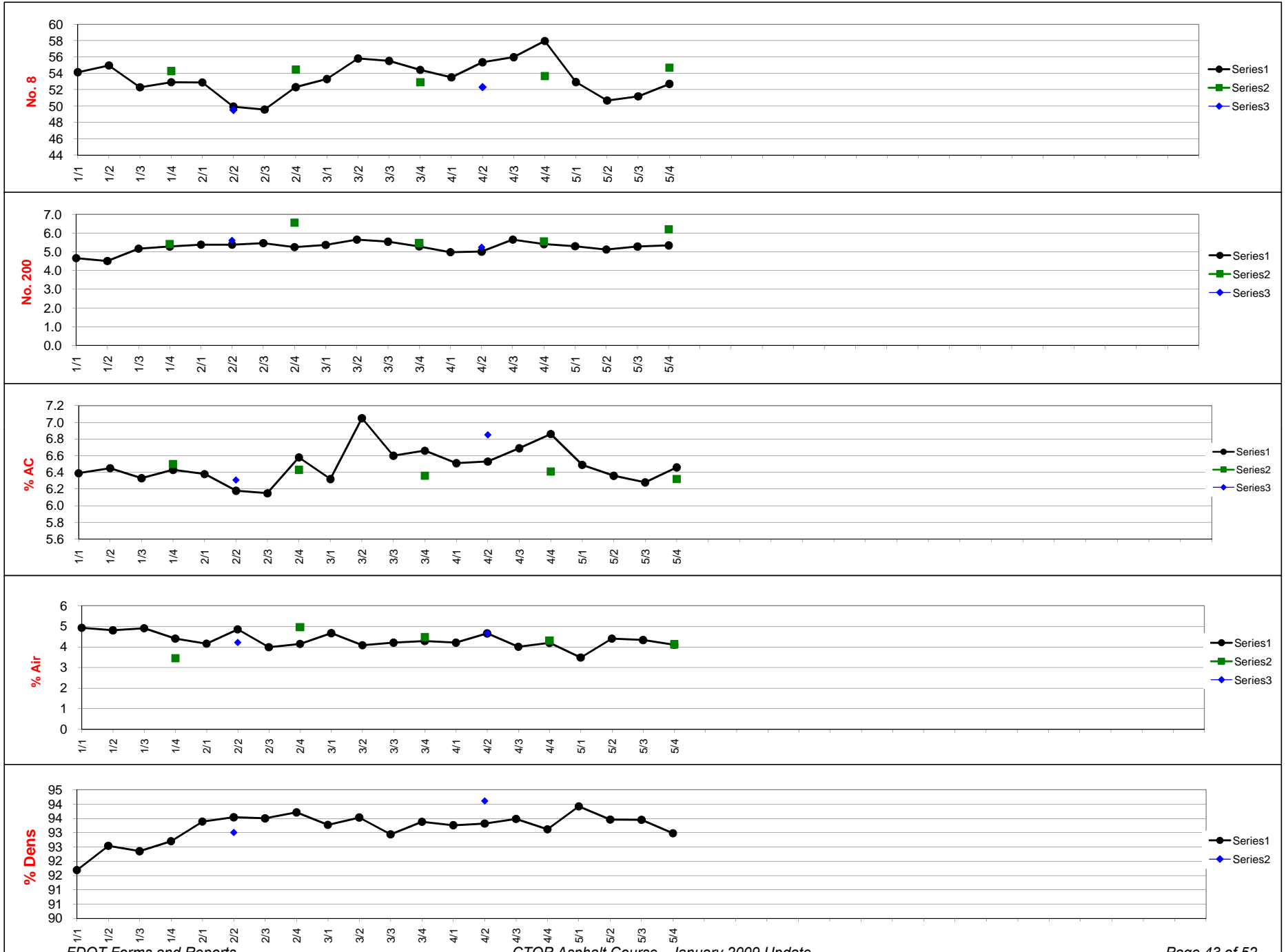
Asphalt Mix Design Summary Report

Project and Mix Design Information							
Project No.:	123456-1-52-01	SR No.:	60	Date:	1/1/2001		
Contractor:	Caledonia Paving	Gyrations		Tested by:	QC		
Mix Design No.:	01-2345 A	(mm):	12.5	@ N ₁ :	6	Lot / Sublot	
Traffic Level:	A	Gmm:	2.345	@ N ₄ :	50	Sample No.	
VMA:	14.0% MIN	VFA:	70-80%	@ N _m :	75	Random No.	
Design Temp:	Production:	335	Compaction:	310	Lot CPF		
Property	JMF	AVG	STD	MIN	MAX	RNG	CNT
25.0mm (1")	100	100.00	0.00	100.00	100.00	0.00	1.00
19.0mm (3/4")	100	100.00	0.00	100.00	100.00	0.00	1.00
12.5mm (1/2")	90	90.00	0.00	90.00	90.00	0.00	1.00
9.5mm (3/8")	80	80.00	0.00	80.00	80.00	0.00	1.00
4.75mm (#4)	70	70.00	0.00	70.00	70.00	0.00	1.00
2.36mm (#8)	50	50.00	0.00	50.00	50.00	0.00	1.00
1.18mm (#16)	40	40.00	0.00	40.00	40.00	0.00	1.00
600um (#30)	30	30.00	0.00	30.00	30.00	0.00	1.00
300um (#50)	20	20.00	0.00	20.00	20.00	0.00	1.00
150um (#100)	10	10.00	0.00	10.00	10.00	0.00	1.00
75um (#200)	5.0	5.00	0.00	5.00	5.00	0.00	1.00
Ext. AC %:	6.0	6.00	0.00	6.00	6.00	0.00	1.00
Rice MSG (Gmm):	2.345	2.345	0.00	2.345	2.345	0.00	1.00
Avg. Bulk (Gmb):		2.234	0.00	2.234	2.234	0.00	1.00
Agg. Sp. Gr. (Gsb):		2.543	0.00	2.543	2.543	0.00	1.00
Hgt.@N int.:		131.0	0.00	131.0	131.0	0.00	1.00
Hgt.@N des.:		115.0	0.00	115.0	115.0	0.00	1.00
%Gmm @ Ni	≤ 91.5	83.6	0.00	83.6	83.6	0.00	1.00
% Gmm @ Nd	96.0	95.3	0.00	95.3	95.3	0.00	1.00
% Air Voids @ Nd		4.73	0.00	4.73	4.73	0.00	1.00
% VMA @ Nd		17.42	0.00	17.42	17.42	0.00	1.00
% VFA @ Nd		72.85	0.00	72.85	72.85	0.00	1.00
Dust/Asphalt		0.85	0.00	0.85	0.85	0.00	1.00
Gmb @ Nd		2.234	0.00	2.23	2.234	0.00	1.00
Density lbs/cf		139.4	0.00	139.40	139.4	0.000	1.00
Gse		2.6	0.00	2.55	2.6	0.00	1.00
Pba		0.11	0.00	0.11	0.11	0.00	1.00
Pbe		5.90	0.00	5.90	5.90	0.00	1.00
Roadway Core 1 Gmb							2.209
Roadway Core 2 Gmb							2.221
Roadway Core 3 Gmb							2.199
Roadway Core 4 Gmb							2.225
Roadway Core 5 Gmb							2.185
Average Core Gmb		2.21	0.00	2.21	2.21	0.00	1.00
Sublot Gmm		2.35	0.00	2.35	2.35	0.00	1.00
% of Sublot Gmm		94.16	0.00	94.16	94.16	0.00	1.00

Asphalt Mix Design Summary Report

Project and Mix Design Information							
Project No.:	123456-1-52-01	SR No.:	60	Date:			
Contractor:	Caledonia Paving	Gyrations		Tested by:			
Mix Design No.:	01-2345 A	(mm):	12.5	@ N _j :	6	Lot / Sublot	
Traffic Level:	A	Gmm:	2.345	@ N _d :	50	Sample No.	
VMA:	14.0% MIN	VFA:	70-80%	@ N _m :	75	Random No.	
Design Temp:	Production:	335	Compaction:	310	Lot CPF		
Property	JMF	AVG	STD	MIN	MAX	RNG	CNT
25.0mm (1")	100	100.00	0.00	100.00	100.00	0.00	1.00
19.0mm (3/4")	100	100.00	0.00	100.00	100.00	0.00	1.00
12.5mm (1/2")	90	90.00	0.00	90.00	90.00	0.00	1.00
9.5mm (3/8")	80	80.00	0.00	80.00	80.00	0.00	1.00
4.75mm (#4)	70	70.00	0.00	70.00	70.00	0.00	1.00
2.36mm (#8)	50	50.00	0.00	50.00	50.00	0.00	1.00
1.18mm (#16)	40	40.00	0.00	40.00	40.00	0.00	1.00
600um (#30)	30	30.00	0.00	30.00	30.00	0.00	1.00
300um (#50)	20	20.00	0.00	20.00	20.00	0.00	1.00
150um (#100)	10	10.00	0.00	10.00	10.00	0.00	1.00
75um (#200)	5.0	5.00	0.00	5.00	5.00	0.00	1.00
Ext. AC %:	6.0	6.00	0.00	6.00	6.00	0.00	1.00
Rice MSG (Gmm):	2.345	2.345	0.00	2.345	2.345	0.00	1.00
Avg. Bulk (Gmb):		2.234	0.00	2.234	2.234	0.00	1.00
Agg. Sp. Gr. (Gsb):		2.543	0.00	2.543	2.543	0.00	1.00
Hgt.@N int.:		131.0	0.00	131.0	131.0	0.00	1.00
Hgt.@N des.:		115.0	0.00	115.0	115.0	0.00	1.00
%Gmm @ Ni	≤ 91.5	83.6	0.00	83.6	83.6	0.00	1.00
% Gmm @ Nd	96.0	95.3	0.00	95.3	95.3	0.00	1.00
% Air Voids @ Nd		4.73	0.00	4.73	4.73	0.00	1.00
% VMA @ Nd		17.42	0.00	17.42	17.42	0.00	1.00
% VFA @ Nd		72.85	0.00	72.85	72.85	0.00	1.00
Dust/Asphalt		0.85	0.00	0.85	0.85	0.00	1.00
Gmb @ Nd		2.234	0.00	2.23	2.234	0.00	1.00
Density lbs/cf		139.4	0.00	139.40	139.4	0.000	1.00
Gse		2.6	0.00	2.55	2.6	0.00	1.00
Pba		0.11	0.00	0.11	0.11	0.00	1.00
Pbe		5.90	0.00	5.90	5.90	0.00	1.00
Roadway Core 1 Gmb							
Roadway Core 2 Gmb							
Roadway Core 3 Gmb							
Roadway Core 4 Gmb							
Roadway Core 5 Gmb							
Average Core Gmb		2.21	0.00	2.21	2.21	0.00	1.00
Sublot Gmm		2.35	0.00	2.35	2.35	0.00	1.00
% of Sublot Gmm		94.16	0.00	94.16	94.16	0.00	1.00

P r o d u c t i o n C h a r t s



State Of Florida Department Of Transportation
Asphalt Mix Design Summary Report

675-030-24
 MATERIALS
 01/04

Project Summary	
Project No.:	12345675201
SR No.:	60
Contractor:	Caledonia Paving
Mix Design No.:	01-2345 A
Traffic Level:	E
Mix (mm):	FC-5

	1/12/2001	1/12/2001	1/12/2001	1/15/2001	1/16/2001	1/17/2001	1/18/2001	1/18/2001	1/18/2001	1/19/2001	1/19/2001	1/22/2001
Tested by:	QC	IA	QC	QC	QC	QC	QC	QC	IA	QC	QC	QC
Sample ID:	1,1	1,1	1,2	1,3	1,4	2,1	Info w/IA	Info	Info	Info	2,2	2,3
Load #:	5	5	18	4	16	34	4	4	18	4	30	4
Tons/day:			672.21	807.23	568.3	775.04			802.98		902.59	


Property	JMF	AVG	STD	MIN	MAX	RNG	CNT													
25.0mm (1")	100	100.00	0.00	100.00	100.00	0.00	11.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00			
19.0mm (3/4")	100	90.29	1.36	87.75	92.06	4.31	11.00	89.28	91.05	92.06	91.44	90.90	89.68	90.74	88.03		90.68	87.75	91.53	
12.5mm (1/2")	96	69.82	1.57	67.50	72.33	4.83	11.00	71.02	71.58	71.40	68.54	68.87	69.12	67.50	70.77		68.91	67.94	72.33	
9.5mm (3/8")	88	53.38	1.53	49.92	55.81	5.89	11.00	54.13	54.27	54.96	52.28	52.90	52.88	49.92	54.42		52.30	53.30	55.81	
4.75mm (#4)	67	42.69	1.26	39.92	44.61	4.69	11.00	43.40	43.23	44.43	41.76	42.27	42.37	39.92	43.05		41.75	42.76	44.61	
2.36mm (#10)	53	35.25	1.00	33.15	36.66	3.51	11.00	35.43	36.20	36.66	34.50	34.72	34.78	33.15	35.97		34.63	35.11	36.56	
1.18mm (#40)	41	26.78	0.82	25.42	28.08	2.66	11.00	26.34	27.85	27.62	26.30	26.13	26.14	25.42	28.08		26.57	26.56	27.59	
600um (#80)	33	11.86	0.59	11.02	13.31	2.29	11.00	11.02	12.42	11.74	11.86	11.20	11.61	11.68	13.31		12.03	11.58	12.04	
75um (#200)	5.0	5.38	0.44	4.66	6.56	1.90	11.00	4.66	5.42	5.07	5.17	5.28	5.38	5.38	6.56		5.25	5.37	5.65	
Ext. AC %:	6.5	6.45	0.21	6.18	7.05	0.87	12.00	6.39	6.50	6.48	6.33	6.43	6.38	6.18	6.43		6.29	6.58	6.32	7.05

State Of Florida Department Of Transportation
Asphalt Mix Design Summary Report

675-030-24
 MATERIALS
 01/04

Project Summary											
Project No.:	12345675201	Date:									
SR No. :	60	Tested by:									
Contractor:	Caledonia Paving	Sample ID:									
Mix Design No.:	01-2345 A	Load #:									
Traffic Level:	E	Tons/day:									
Mix (mm):	FC-5										

Property	JMF	AVG	STD	MIN	MAX	RNG	CNT							
25.0mm (1")	100	100.00	0.00	100.00	100.00	0.00	11.00							
19.0mm (3/4")	100	90.29	1.36	87.75	92.06	4.31	11.00							
12.5mm (1/2")	96	69.82	1.57	67.50	72.33	4.83	11.00							
9.5mm (3/8")	88	53.38	1.53	49.92	55.81	5.89	11.00							
4.75mm (#4)	67	42.69	1.26	39.92	44.61	4.69	11.00							
2.36mm (#10)	53	35.25	1.00	33.15	36.66	3.51	11.00							
1.18mm (#40)	41	26.78	0.82	25.42	28.08	2.66	11.00							
600um (#80)	33	11.86	0.59	11.02	13.31	2.29	11.00							
75um (#200)	5.0	5.38	0.44	4.66	6.56	1.90	11.00							
Ext. AC %:	6.5	6.45	0.21	6.18	7.05	0.87	12.00							

LIMS TestCodes	Project ID.: _____		Pay Item No.: _____		Material ID.: _____						
	Sample Level: Q		Alt Density Sublot: N/A		Resolution Sample: N						
	Spec. Year: _____		Destination LabID: _____		Manfr or Prod: _____						
	Plant No.: _____		Design Mix. No.: _____								
Single Sample Login Information		Date Sampled	LOT	SUB	LOT	SUB	LOT	SUB	LOT	SUB	
		Sampled By (TIN):									
		Submitted By:									
		of:									
		Phone:									
		Intended Use:									
		Sample No.:									
		Station From:	+		+		+		+		
		Station To:	+		+		+		+		
		Lane, Load #, Ran. Tons									
FM5-563APW Asphalt Content	Performed By (TIN):										
	Performed On:										
	Basket wt., g (A)										
	Bgn. Basket + Sample wt., g (B)										
	Bgn. Sample wt., g, (B-A)										
	End Basket + Sample wt., g (C)										
	Final Sample wt., g, (C-A) (D)										
	AC from Print Out, % (E)										
	Calibration Factor, % (F)										
	Des. AC, %				Percent AC, % (E+F)						
Wt. of Extracted Agg., g (G)											
Note: Diff. D & G shall not > 0.2% of D.											
Wt. of Washed Sample, g (H)											
Wt of - 75um Mat'l lost due to Washing, g, (G-H)											
FM1-T030APW Gradation	% Pass Sieves 1" thru #100 = 100-(Wt ret'd / Ext'd Agg. Wt.)*100 % Pass #200 = (Wt. Of loss due to Wash + Wt ret'd in Pan) / Ext'd Agg Wt. * 100 Weights are cumulative.	Performed By (TIN):									
		Performed On:									
		Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
		1" (25.0mm), g									
		3/4" (19.0mm), g									
		1/2" (12.5mm), g									
		3/8" (9.5mm), g									
		No.4 (4.75mm), g									
		No.8 (2.36mm), g									
		No.16 (1.18mm), g									
No.30 (600µm), g											
No.50 (300µm), g											
No.100 (150µm), g											
No.200 (75µm), g											
Wt of Matl. in Pan, g											
FM1-T209APW G _{mm}	Performed By (TIN):										
	Performed On:										
	(Must be a numerical number) Flask No.:										
	Weight of Flask + Sample										
	Weight of Flask										
	Weight of Sample (A)										
	Weight of Flask + Water (D)										
	Weight of Flask + Water + Sample (E)										
	Weight of Sample Surface Dry (B)										
	G _{mm} = (A/(B+D-E))										
Corr. Factor	JMF G _{mm}	Difference									
Average G _{mm}											

FM1-T166PLNT Lab G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Hgt. @ N _{ini}																	
	Hgt. @ N _{des}																	
	Average Heights N _{ini} , N _{des}																	
	Dry Weight																	
	Water Weight																	
	SSD Weight																	
	JMF G _{mb}		G _{mb}															
	Avg G _{mb}																	

FM1-T166ROAD Roadway G _{mb}	Performed By (TIN):																									
	Performed On:																									
	Fine Graded		Dry			Water			SSD			Gmb			Dry			Water			SSD			Gmb		
	Static Mode <input checked="" type="checkbox"/>	Core # 1																								
		Core # 2																								
		Core # 3																								
		Core # 4																								
		Core # 5																								
	Target		Avg G _{mb}																							
	93.0		% G _{mm}																							

Volumetrics	Performed By (TIN):																	
	Performed On:																	
	Agg Sp Grav (G _{sb})																	
	Gyrations @ N _{des}																	
	% Gmm @ N _{int}																	
	% Gmm @ N _{des}																	
	% Air Voids @ N _{des}																	
	% VMA @ N _{des}																	
	% VFA @ N _{des}																	
	Dust / Asphalt																	
	G _{mb} @ N _{des}																	
	G _{se}																	
	P _{ba}																	
	P _{be}																	

Alternate Pay-Item: _____

Comments (Sublot 1): _____

PAY FACTORS

Comments (Sublot 2): _____

Comments (Sublot 3): _____

Comments (Sublot 4): _____

State of Florida Department of Transportation
Asphalt Pavement Straightedge Test Report

675-060-10
 CONSTRUCTION
 03/08

Date: _____ **Page** _____ **of** _____

District: _____	County/Section No.: _____	FIN I.D. No. _____	Type of Mix: _____
Type of Pavement: <input type="checkbox"/> Structural <input type="checkbox"/> Friction	Type of Straightedge: <input type="checkbox"/> 15' Rolling Straightedge <input type="checkbox"/> 15' Manual Straightedge		
Contractor: _____		Engineer: <input type="checkbox"/> FDOT <input type="checkbox"/> CEI: _____	

LANES	WIDTH	STATION TO STATION	DESCRIPTION OF DEFICIENCIES OR SURFACE PROBLEM(S)	PROPOSED DISPOSITION CODE

REMARKS:

RR: Remove and Replace,	LN: Leave in Place with No Payment
LR: leave in Place with Reduced Payment	LF: Leave in Place with Full Payment
QC Technician Signature: _____	Verification Technician Signature: _____
QC TIN Number: _____	VT TIN Number: _____

State of Florida Department of Transportation

Asphalt Pavement Straightedge Test Report

675-060-10
CONSTRUCTION
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Date: _____ Page _____ of _____

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Engineer: <input type="checkbox"/> FDOT <input type="checkbox"/> CEI: _____			

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Instruction for Completion of Asphalt Pavement Straightedge Test Report

No erasures accepted, strikeout mistakes only

1. **Date** - Indicate the date this report was generated.
2. **Page Number** - Indicate the page number of this sheet.
3. **District** - Enter the name of the County on which the project is located.
4. **County/Section No.** - Indicate the county's name and the section number on which the project is located.
5. **Fin. Project ID** - Enter the Financial Project ID on which the test was performed.
6. **Type of Mix** - Indicate asphalt mix type, e.g., FC - 5, FC - 6, SP - 9.5, etc.
7. **Type of Pavement** - Enter X in the to indicate the type of pavement on which the testing is performed.
8. **Type of Straightedge** - Enter X in the to indicate the type of straightedge being used for the testing.
9. **Contractor** - Enter the name of the Contractor for this project.
10. **Engineer** - Enter X in the to indicate the name of Engineer.
11. **Lanes** - The lane where the test was performed. Right or left should be determined by standing on the centerline on the median, facing the direction of increasing stations, and number the lanes L1, L2, L3 etc., or R1, R2, R3 etc. This indicates that L1 is the first lane to the left of the centerline. Center lanes should be identified with the letter C. Turn lane is identified by RTL (right turn lane), LTL (left turn lane).
12. **Width** - Indicate the width of the lane being tested.
13. **Station to Station** - Enter the beginning and the ending stations of the lane being tested.
14. **Description of the Deficiencies or Surface Problem(s)** - Describe the smoothness deficiencies such as + 5/16 inch or - 1/4 inch and/or pavement surface problem(s) such as rutting depth 0.3 inch, cracking 1/8 inch with 15 inches in length, raveling with 25 feet in length, segregation 10 square feet, etc.
15. **Remarks** - Comments pertinent to the straightedge testing which are not shown elsewhere on the report. Any immediate corrections are needed and instruction was issued to the Contractor, etc. If no deficiencies were found during straightedge testing, the Report shall specifically state "No Deficiencies Were Found" in the Remarks.
16. **QC Technician Signature** - To be signed by the Qualified Asphalt QC Technician who performed the testing.
17. **Verification Technician Signature** - To be signed by the Qualified Asphalt Verification Technician who verified the report at the job site during Contractor's testing.
18. **QC TIN Number** - Enter the QC Technician TIN Number.
19. **VT TIN Number** - Enter the VT Technician TIN Number.
20. **Proposed Disposition Code** – Contractor enters the proposed correction work for the Deficiency by using the following Disposition Code:
RR: Remove and Replace.
LN: Leave in Place with No Payment.
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State of Florida Department of Transportation

Asphalt Pavement Straightedge Test Report

675-060-10
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Date: _____ Page _____ of _____

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Engineer: <input type="checkbox"/> FDOT <input type="checkbox"/> CEI: _____			

LANES	WIDTH	STATION TO STATION	DESCRIPTION OF DEFICIENCIES OR SURFACE PROBLEM(S)	PROPOSED DISPOSITION CODE

REMARKS:

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