

# HMA Local Agency Division 5 Specification

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Secretary of Transportation

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Director Highways &  
Local Programs



**Aggregate and PG Binder alone  
will not improve bad roads.**



# The APWA Division 5 SC Goal is

- ▶ To develop specifications appropriate to the needs of the projects.
- ▶ WSDOT Specifications work very well for
  - High speed,
  - High volume,
  - High quantity (over 4500 Tons) paving projects.
- ▶ Local Agencies rarely build freeways

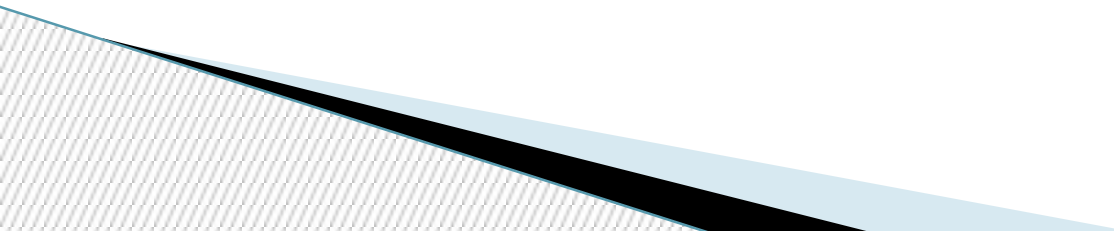
# The Bigger Goal

- ▶ Is to provide local agencies an economical process of HMA acceptance with minimal risk and maximum benefit.

# The Mission

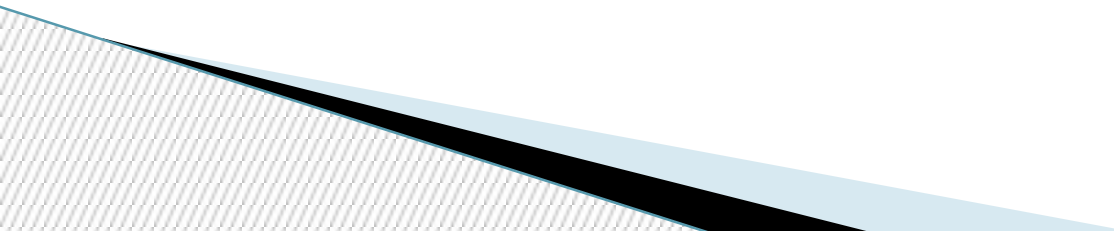
- ▶ Of the APWA Division 5 committee is
  - • •
  - Clear Guidelines
  - Testing and acceptance clarification

To do that the  
committee has  
determined that we  
must do 3 things

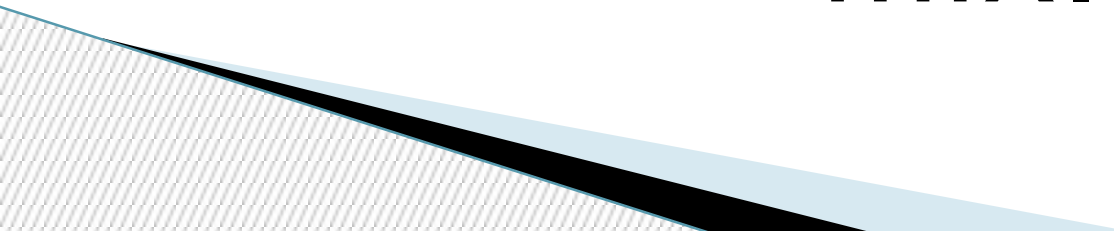


#1

Streamline the Mix  
Design verification  
process to save time  
and money



In the APWA revision mix  
verification may be  
performed on production  
mix.





#2

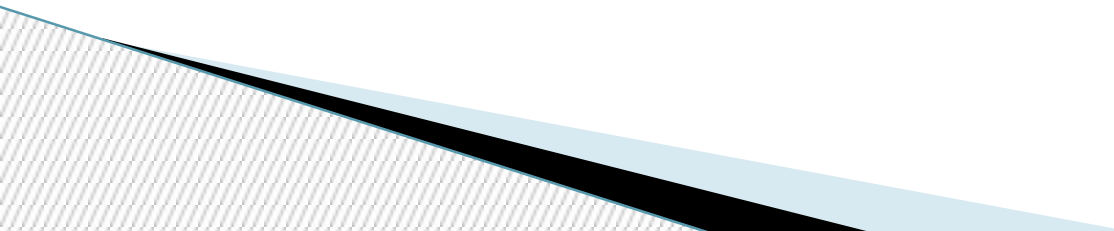
Address Anti-Strip

Evaluation Needs and

Requirements

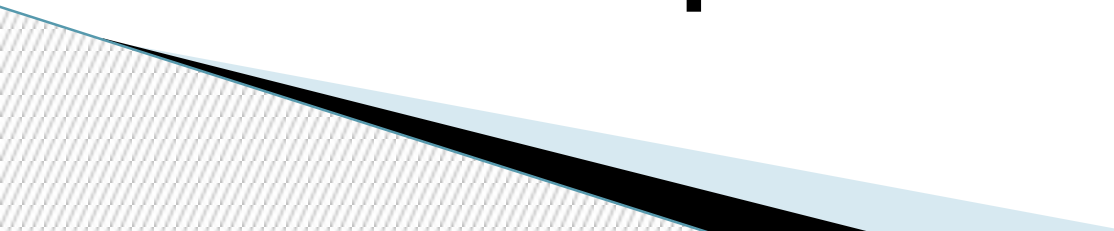


In the APWA Division 5  
Revision Anti Strip  
Evaluation can be done  
using historic data or  
by testing



#3

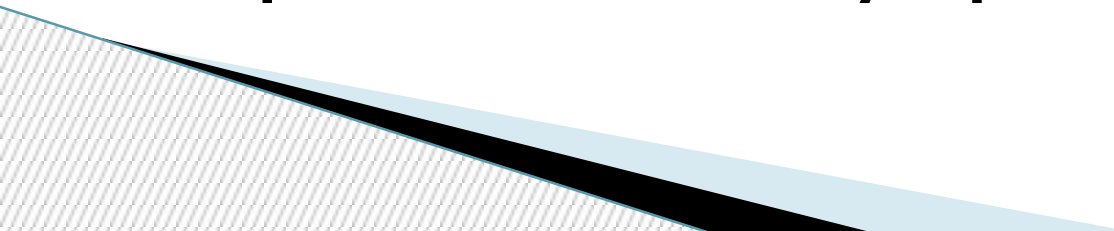
Clarify the Testing  
needs and  
requirements



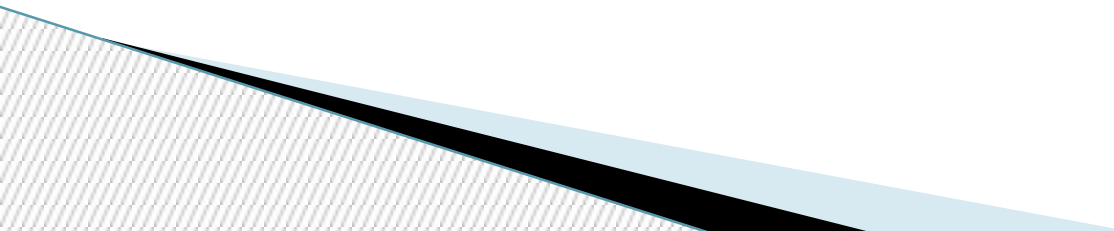
# NHS – HMA Requirements

23 CFR requires testing be performed on FHWA funded projects on the NHS.

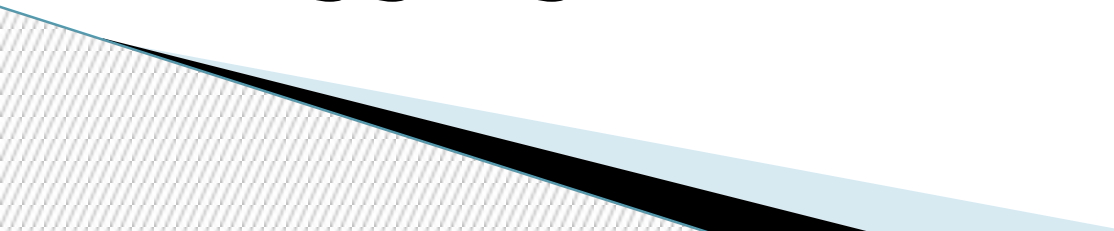
Another requirement is that testing be performed by qualified testers.



# ▶ THE MIX DESIGN



The information needed to design an HMA Mix is:

- Number of ESALS,
  - Number of Gyration,
  - Binder Grade – location, location, location . . .
  - Aggregate Class
- 

1. Design the correct pavement section for the roadway needs

Pavement Management Tools

<http://www.wsdot.wa.gov/>

[Business / MaterialsLab /](#)

[Pavements / Default.htm](#)

Calculate ESALs (Excel Spread  
Sheet 23 kb)

[http://www.wsdot.wa.gov/  
Business/MaterialsLab/  
Pavements/Default.htm](http://www.wsdot.wa.gov/Business/MaterialsLab/Pavements/Default.htm)



# Designing HMA Mixes – ESALs

## Sample Interactive Worksheet

### ESAL CALCULATION

This on-line spreadsheet should only be used if you do not have access to the MNESALS electronic spreadsheet. To use, please fill in the required information in the DARK GREY boxes.

ADL = Average Daily Load

Design Period (in years) :

Growth Factor (as decimal):

20

0.1

Vehicle Classification	Base Year AADT (2-way)	Flexible ESAL Factors	Base Year ADL	Growth Factor	Design Year AADT (2 way)	Design ADL
Cars and pickups	3000	0.0007	2.1	1.1	20182	14
2 axle, 6 tire SU		0.25	0	1.1	0	0
3+ axle SU		0.58	0	1.1	0	0
3 axle TST		0.39	0	1.1	0	0
4 axle TST		0.51	0	1.1	0	0
5+ axle TST		1.13	0	1.1	0	0
Buses, trucks w/trailers	100	0.57	57	1.1	673	383
Twin trailers		2.4	0	1.1	0	0
Total			59.1		20855	398

Average ADL

228.3476235

No. of days in design period

7300

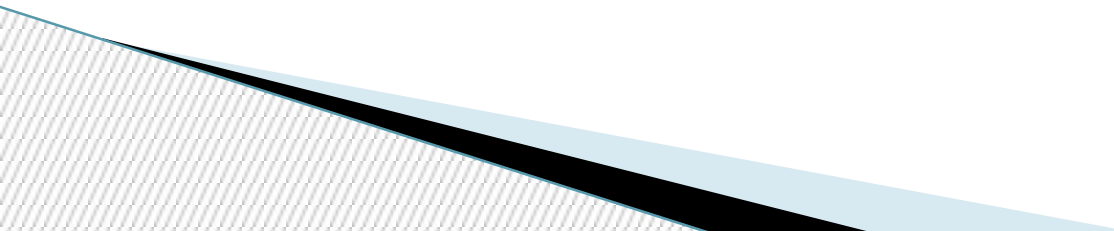
Design lane factor

750121.9432

Cumulative design lane flexible ESAL

840136.5764

Select the correct  
gyration level mix  
during pavement  
design



# Determine Gyration level based on ESALs for your project

Design ESALs* (million)	Compaction Parameters			Typical Roadway Application <sup>†</sup>
	$N_{\text{vital}}$	$N_{\text{design}}$	$N_{\text{max}}$	
< 0.3	6	50	75	Applications include roadways with very light traffic volumes such as local roads, county roads, and city streets where truck traffic is prohibited or at a very minimal level. Traffic on these roadways would be considered local in nature, not regional, intrastate, or interstate. Special purpose roadways serving recreational sites or areas may also be applicable to this level.
0.3 to < 3	7	75	115	Applications include many collector roads or access streets. Medium-trafficked city streets and the majority of county roadways may be applicable to this level.
3 to < 30	8	100	160	Applications include many two-lane, multilane, divided, and partially or completely controlled access roadways. Among these are medium to highly trafficked city streets, many state routes, U.S. highways, and some rural Interstates.
≥ 30	9	125	205	Applications include the vast majority of the U.S. Interstate system, both rural and urban in nature. Special applications such as truck-weighing stations or truck-climbing lanes on two-lane roadways may also be applicable to this level.

\* The anticipated project traffic level expected on the design lane over a 20-year period. Regardless of the actual design life of the roadway, determine the design ESALs for 20 years.

† As defined by *A Policy on Geometric Design of Highways and Streets, 2001*, AASHTO.

Select binder grade (pdf  
document 43 kb)

# Binder Grades

- ▶ The base grade for oil in Western Washington is 58–22, in Eastern Washington it is 64–28. Bumping, or going up in grade, should always start with the grade specific to the geographic area you are working. For more information, see section 5–04.2 of the Standard Specifications.
- ▶ We rarely specify –34 Binders in Washington. Production for HMA with –34 binders has proved problematic the lab recommends not using them at this time. We restrict their use to the mountain pass highways.

# Ask for the correct mix in the contract documents

## Sample Proposal

Bid Item	Approximate Quantity	Items with Unit Price Bid	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
35	2490 Tons	HMA CI ½ inch PG 64-22 Per Ton				

# Specifications for HMA

## WSDOT Standard

- ▶ Requires Verified Mix Design
- ▶ Statistical acceptance for over 4000 tons –
- ▶ Requires CPF for out of specification material

## APWA GSP

- ▶ Allows either verified or non verified mix
- ▶ Allows non–statistical acceptance for any quantity
- ▶ Requires CPF for out of specification material

Incorporate appropriate  
specification changes to  
implement the process you  
want during construction

[http://www.wsdot.wa.gov/partners/  
apwa/](http://www.wsdot.wa.gov/partners/apwa/)





# Page looks like

The screenshot shows a web browser window with the address bar displaying [www.wsdot.wa.gov/partners/apwa/#Top](http://www.wsdot.wa.gov/partners/apwa/#Top). The page header includes the WSDOT logo and navigation links for News, Employment, Good To Go, and Co. Below the header is a main navigation menu with categories: Traffic & Cameras, Projects, Business, Environment, and Maps & Data. A breadcrumb trail indicates the current location: Home > Partners > APWA.


## Local Agency GSPs

- [GSP FAQ](#)
- [Division 1 Index](#)
- [Division 5 Index](#)

## About H&LP

- [H&LP Home](#)
- [Staff and Contact](#)
- [Regional Engineers](#)

## Related Links

- [Project Development page for WSDOT GSPs and Amendments](#)
-  [Division 1 Committee](#)

## Local Agency General Special Provisions (GSPs)

To be notified whenever these GSPs change, [sign up](#) for this Local Agency ListServ.

Here is a [log of recent changes/additions](#) to the Local Agency GSPs.

Regardless of which download method you choose, it is critical that you check the index (see Item 1 below) for guidelines on:

- When to use each GSP, including which of several Options for one GSP
- Which GSPs must be used together
- Which GSPs may not be used on FHWA funded projects
- What to use for fill-ins (shown as \$\$\$\$ in the GSP -- insert the appropriate text after you download)

You have **four choices** for downloading the Local Agency (APWA) GSPs. All are kept up to date with the latest GSPs:

1. Go to the GSP Index and download individual GSPs:
  - [Division 1 Index, General Requirements](#) (Last revised 08/14/13)
  - [Division 5 Index, Surface Treatments and Pavements](#) (January 16, 2014)

**"Right Click"** on the GSP number from the index and choose **"Save Target As"**, or To review it first, open it in Internet Explorer, then use the File/Save As commands.

# CPFs You only need to do this when:

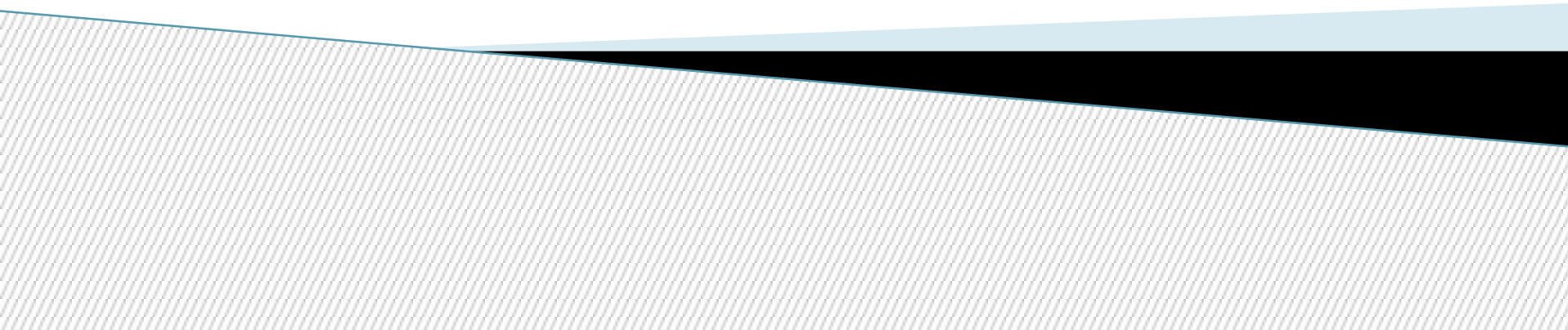
1. You are using Non-statistical acceptance and have out of specification material or
2. You are under Statistical Acceptance

# Statistical Analysis of Materials

- ▶ The SAM program is a web based computer program that is set up to calculate the Composite Pay Factor (CPF) for out of specification material and Statistically Accepted material.
- ▶ If you need a CPF contact your local programs office for assistance.

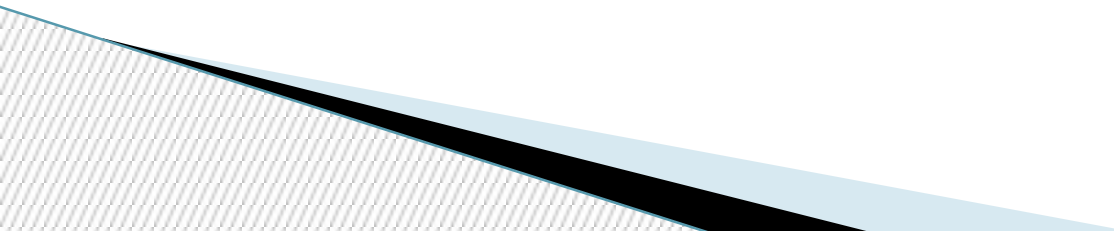
# Module 3

## HMA Approval and Acceptance Process



# Record Of Materials (ROM)

This could actually be the subject of another class but these are the parts you really need to know.

- ▶ A ROM can be used to track and record materials and documents as they occur throughout a project.
  - ▶ The ROM lists each bid item and the individual component materials that are used for it.
  - ▶ The ROM provides information to help you review and approve or reject material submittals
  - ▶ A ROM lists Standard Specification and Construction Manual references that apply to each material component and any Special Provisions or Plan Sheets that provide information on the item.
- 

Fossc Proj														
-----														
-	-	WSDOT - Materials Laboratory Record of M				-	-	-						
-	-													
-----														
PSE_nbr	Contract	B.I.	QTY	UOM	Bid_Item	spec_sour	Doc_Req	QPL	Std_Spec	Minor				
SB0502	TA1862	100.01			BASE BID									
SB0502	TA1862	112.01	1920	C.Y.	EMBANKM		See Const		2-03.3(14)					
SB0502	TA1862	113.01	6	EACH	CATCH B		WSDOT I		7-05					
SB0502	TA1862	113.02	6	EACH	FRAME &		APPROV		7-05					
SB0502	TA1862	114.01	6	EACH	CATCH B		WSDOT I		7-05					
SB0502	TA1862	114.02	6	EACH	FRAME &		APPROV		7-05					
SB0502	TA1862	115.01	3	EACH	STORM D		WSDOT I		9-12.4					
SB0502	TA1862	115.02	3	EACH	RING & C		APPROV		9-05.15(1)					
SB0502	TA1862	116.01	3	EACH	DEBRIS C		WSDOT I		PS G7					
SB0502	TA1862	117.01	1338	L.F.	STORM S		Mfr. Cert.	Y	SP 29					
SB0502	TA1862	118.01	750	L.F.	STORM S		Mfr. Cert.	Y	SP 29					
SB0502	TA1862	119.01			PERCOLA				SP 29					
SB0502	TA1862	119.02			DRAIN PI		Mfr. Cert.	Y	SP 30					
SB0502	TA1862	119.03			GRAVEL		1 Accepta		9-03.12(4)					
SB0502	TA1862	119.04			CONSTRU		1 Sample	Y	9-33					
SB0502	TA1862	121.01	11850	L.F.	PAVEMEN				SP 27					
SB0502	TA1862	121.02			HMA FOR		Sample pe		5-04					
SB0502	TA1862	121.03			PAVING A		Acceptanc	Y	9-02.1(4)					
SB0502	TA1862	121.04			MIN. AGG		1 Accepta		9-03.8					
SB0502	TA1862	121.05			ASPHALT		Supplier's	Y	5-04.3(5)A & 9-02.1(6)					
SB0502	TA1862	122.01	7225	TON	HMA CL.		Sample pe		5-04					
SB0502	TA1862	122.02	433.5	TON	PAVING A		Acceptanc	Y	9-02.1(4)					
SB0502	TA1862	122.03	6791.5	TON	CL. 1/2 IN		5 Accepta		9-03.8					
SB0502	TA1862	122.04			ASPHALT		Supplier's	Y	5-04.3(5)A & 9-02.1(6)					
SB0502	TA1862	123.01	480	TON	HMA CL.		Sample pe		5-04					
SB0502	TA1862	123.02	28.8	TON	PAVING A		Acceptanc	Y	9-02.1(4)					
SB0502	TA1862	123.03	451.2	TON	CL. 1/2 IN		1 Accepta		9-03.8					
SB0502	TA1862	123.04			ASPHALT		Supplier's	Y	5-04.3(5)A & 9-02.1(6)					
SB0502	TA1862	124.01	5305	TON	CRUSHE		3 Accepta		9-03.9(3)					
SB0502	TA1862	125.01	2582	TON	CRUSHE		2 Accepta		9-03.9(3)					



## A good Documentation Package

Includes a document that tracks what was used for each item of work where in the file system to find the documentation.

At WSDOT it is referred to as a “Maintained ROM”







Contract Your Contract Number		FA Number Federal Aid Number		GR	Date 8/10/2006
Section Here to There				County Our County	
Contractor Really Great Guys Who Build Roads			Subcontractor		

For assistance in completing, see Instructions and Example				For WSDOT Use Only		
Bid Item No.	Material or Manufacturer's Product Type	Name and Location of Fabricator, Manufacturer or Pit Number	Specification Reference	PE Appl Code	Wdr. Appl Code	File No.
20.01	HMA Class 1/2" PG 64-28	Lakeside Industries Inc.	5-04	1		
20.02	PG 64-28 Binder	Chevron - Richmond Beach	9-02.1(4)	1.2		
20.03	Class 1/2" Min Agg	Proctor Creek D-316	9-03.8	1		
20.04	Tack Coat	Paramount Petroleum, Seattle, WA	5-04.3(5)A & 9-02.1(6)	QPL 2148		
20.05	Anti Strip	Ultracote UP-5000	9-02.4	**		
Project Engineer		Date	State Materials Engineer		Date	

**Approval Action Codes for use by Project Engineer and State Materials Laboratory**

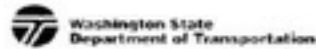
1. Conditionally Approved: Acceptance based upon 'Satisfactory' Test Report for samples of materials to be incorporated into project.
2. Conditionally Approved: Submit Mfg. Cert. of Compliance for 'Approval' prior to use of material.
3. Conditionally Approved: Submit Catalog Cuts for 'Approval' prior to use of material.
4. Conditionally Approved: Submit Shop Drawings for 'Approval' prior to fabrication of material.
5. Conditionally Approved: Only 'Approved for Shipment' or 'WSDOT Inspected' material shall be used.
6. Conditionally Approved: Submit Materials Certificate of Origin to Project Engineer.
7. Approval Pending: Request Transmitted to State Materials Laboratory for Approval Action.
8. Source Approved:
9. Approval Withheld: Submit samples for preliminary evaluation.
10. Approval Withheld:
- 11.

Remarks:  
\*\*Requirement Waived by the city engineer 08/11/2006

Project Engineer Distribution		State Materials Engineer Distribution	
<input type="checkbox"/> Contractor	<input type="checkbox"/> Region Materials	<input type="checkbox"/> General File	<input type="checkbox"/> Signing Inspection
<input type="checkbox"/> Region Operations Engineer	<input type="checkbox"/> State Materials Lab	<input type="checkbox"/> Fabrication Inspection	<input type="checkbox"/> Other _____

# Request For Approval of Material (RAM)

One variation of an Approval document



WSDOT MATERIALS LAB

07/19/2006

## Aggregate Source Approval Report

Owner: 316 Aggregate Source: PS-D-  
 Lessee: Known as:  
 Located In: NW1/4NW1/4 Sec 35, NE1/4NE1/4 Sec 34 Section 34, 35, T28N R6E County: Snohomish

## Remarks:

**Pit Run Materials:**

Prior to incorporating any of the following into a job, Gradation and Sand Equivalent tests shall be performed to determine if the material does in fact meet specification for the intended use:

Backfill for Rock Wall	Bedding Material for Sand Drains	Bedding Material for Rigid Pipe
Bedding Material for Thermoplastic Pipe	Blending Sand	Foundation Material for Classes A, B or C
Gravel Backfill for Drains and Cretwalls	Gravel Backfill for Foundation Class B	Gravel Backfill for Pipe Zone Bedding
Gravel Backfill for Walls	Gravel Borrow	Sand Drainage Blanket
Select or Common Borrow		

No Preliminary Tests are required to be performed by the State Materials Lab

<b>Gravel Base:</b>	Test Date:	Expiration Date:
Drainage:	R Value:	Swell Pressure:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of GRAVEL BASE is required prior to use.

<b>Mineral Agg. and Surfacing:</b>	Test Date:	Expiration Date:
Absorption:	Apparent Sp. G.:	Bulk Sp. G. (SSD):
Dag:	LA:	Bulk Sp. G.:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of MINERAL AGGREGATES AND SURFACING is required prior to use.

<b>Portland Cement Concrete Aggregates:</b>	Test Date:	Expiration Date:
ASR - 14 Day :	ASR - One Year:	CCA Absorption:
FCA Absorption:	FCA Organic:	FCA Sp. G.:
Mortar Strength:	Petrographic Analysis:	CCA Sp. G.:
		LA:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of AGGREGATES for FCC is required prior to use.

<b>Riprap and Quarry Spalls:</b>	Test Date: 07/19/2006	Expiration Date:
Absorption:	Apparent Sp. G.:	Bulk Sp. G. (SSD):
Dag:	LA:	Bulk Sp. G.:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of RJP RAP AND QUARRY SPALLS is required prior to use.

Distribution: Physical Testing \_\_\_\_\_ Project Engineer \_\_\_\_\_ Region Operations \_\_\_\_\_ Region Materials \_\_\_\_\_

Pit  
Approval  
Report  
  
Approval  
Tool

# PG Binder

## Bill of Lading

## Considered a Certificate of Compliance

Anti Strip Information will be here

Jan 3, 2005 10:18AM Watson Asphalt No. 0303 P. 10

U.S. OIL SPILLING CO. REFUNDABLE GUARANTEE

**CHEMICAL EMERGENCY**  
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CALL CHEMTREC - DAY OR NIGHT  
1-800-424-9300

**BILL OF LADING** BL # 09859  
ORDER # 41217

Carrier: EQMX / 215  
EQUIPMENT MAINTENANCE INC  
Driver: JAMES RICHTER  
Truck Tank ID: 145  
Trailer ID: 145A  
Trailer ID:  
Date: 8/30/2005  
Time-In: 10:28:50  
Time-Out: 10:51:28

**CARRIER CERTIFICATION**  
CARRIER CERTIFIES BY ACCEPTANCE OF THIS BILL OF LADING THAT THE CARGO TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER IN PROPER CONDITION AND IS PACKED, MARKED AND LABELED IN ACCORDANCE WITH THE TRANSPORT OF THIS COMMODITY AS DEFINED BY FEDERAL, STATE, AND LOCAL REGULATIONS.  
CARRIER BY ACCEPTANCE OF THIS BILL OF LADING ACKNOWLEDGES POSSESSION OF THE MOST CURRENT EDITION OF THE DOT EMERGENCY RESPONSE GUIDEBOOK.

9195000  
**Bill To:** WATSON ASPHALT PAVING CO.  
P O BOX 345  
REDMOND WA 98073-0845

9195002  
**Ship To:** WATSON ASPHALT - REDMOND  
19220 NE 80TH  
REDMOND WA 98053

Dest. ID: RD

**Contract, Project or Purchase Order No.**  
JOB 04750475

**ORIGINAL BL #:**  
MANUAL XAC: NO

**SUPPLIER SIGNATURE**  
*Deak S. P...*

THIS IS TO CERTIFY THAT THE ASPHALTIC MATERIAL IDENTIFIED BELOW AND COVERED BY THIS BILL OF LADING COMPLIES WITH THE STANDARD SPECIFICATIONS OR AS MODIFIED BY THE SPECIAL PROVISIONS APPLICABLE TO THE PROJECT BY AND FOR THE AGENCY INDICATED

WE DOT  OR DOT  AK DOT  OTHER \_\_\_\_\_  
 PVT

**COMMENTS:**

**Product Description**

ELEVATED TEMPERATURE,  
LIQUID, N.O.S., 9, UN3257, III  
( ASPHALT )  
PG 64-22  
511414  
EMERGENCY RESPONSE GUIDE # 128

	TARE WEIGHT	GROSS WEIGHT	NET WEIGHT
Pounds:	38,580.00	105,520.00	66,940.00
Kilos:	17,499.58	47,863.03	30,363.45
Tons:	33.47		
Net Gallons:	7,826.00		
Gross Gallons:	8,688.00		
Liters:	32,887.56		
Metric Tons:	30.32		
Net Barrels:	186.33		

Gravity (API): 6.20  
Temperature (F): 355.00  
Tank Number: TANK 20001

**PRODUCT ADDITIVE:**

# Sample Test Report

One of many types of Acceptance documents



Washington State  
Department of Transportation

## Asphalt Concrete Pavement Compaction Report

Date 6/28/2006		Region Northwest		Project Engineer The Good Guy		SP Number N/A		Section North of Here		Contract Number TA 3399					
Class <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input checked="" type="checkbox"/> G <input type="checkbox"/> Other 1/2" HWA				<input checked="" type="checkbox"/> Wearing <input type="checkbox"/> Base <input type="checkbox"/> Landing		Air Temperature Start 290 End 288		Gauge Serial Number 321654		Rice Density 155.8					
Beginning Station 135+00		Ending Station 138+12		<input checked="" type="checkbox"/> Ahead on Sta. <input type="checkbox"/> Back on Sta.		Lot Length (A) 312		Sublot Length [A] x 0.2] = (L) 62.4		Width (W) 14					
Lane <input checked="" type="checkbox"/> LL <input type="checkbox"/> RL		Elev <input checked="" type="checkbox"/> EB <input type="checkbox"/> WB		HS <input type="checkbox"/> SB		Other <input type="checkbox"/>		Lot# / Quantity 1 400		ACP Test Temp. 185					
Test Number	(X) Value Table (716)	Random Length (X) x (L)	+ Sublot (L) Increment	- (-) Seg. Sta. = Test Sta.	(Y) Value Table (716)	Offset (Y) x (W)	Measured Depth	Core Density	Gauge Readings	Average Reading	Corrected Gauge	Percent of Rice			
1		0	Zero 0	13500		0.0			146.5 144.4 144.5	145.45	145.959	93.7%			
2		0	(L) 62.4	13562.4		0.0			146.6 143.5	145.55	146.059	93.7%			
3		0	(L) x 2 124.8	13624.8		0.0			144.1 144.2	143.8	144.303	92.6%			
4		0	(L) x 3 187.2	13687.2		0.0			143.7 143.6	143.95	144.454	92.7%			
5		0	(L) x 4 249.6	13749.6		0.0			143.5 143.5	143.55	144.052	92.5%			
Beginning Station		Ending Station		<input type="checkbox"/> Ahead on Sta. <input type="checkbox"/> Back on Sta.		Lot Length (A)		Sublot Length [A] x 0.2] = (L)		Width (W)					
Lane <input type="checkbox"/> LL <input type="checkbox"/> RL		Elev <input type="checkbox"/> EB <input type="checkbox"/> WB		HS <input type="checkbox"/> SB		Other <input type="checkbox"/>		Lot# / Quantity 2 400		ACP Test Temp. 182					
Test Number	(X) Value Table (716)	Random Length (X) x (L)	+ Sublot (L) Increment	- (-) Seg. Sta. = Test Sta.	(Y) Value Table (716)	Offset (Y) x (W)	Measured Depth	Core Density	Gauge Readings	Average Reading	Corrected Gauge	Percent of Rice			
1			Zero						143.5 144.1 142.3	143.8	144.303	92.6%			
2			(L)						143.2 144.1	142.75	143.25	91.9%			
3			(L) x 2						141.4 140.9	142.75	143.25	91.9%			
4			(L) x 3						142.1 144.1	141.5	141.995	91.1%			
5			(L) x 4						144.1 144.1	144.1	144.604	92.8%			
Remarks This is all good stuff. The information contained in this worksheet is made up to make the numbers work in the SAM program.									Rollers DDV						
									Passes 3						
Gauge Operator				Date				Sheet Inspector				Date			
								Contractor				Date			

# Maintained ROM

Fossc Prepared ROM							
- Materials List Of Materials							
B.I.#	QTY	UOM	Bid Item Desc	Apvl. Code	Doc Requirement	QPL	Std Spec Minor
20.01	290	TON	HMA CL. A IN. PG 64-28		Sample per 9-4.7 of Const. Man.		5-04
RAM #34			Lakeside Ind. Issaquah	1**	**This material will be accepted by Manufacturer Certificate of Compliance due to small quantity.		
20.02	17.4	TON	PAVING ASPHALT - PG 64-28		Acceptance per 9-4.2 & 9-5.7 of Const. Manual or 8	Y	9-02.1(4)
RAM #34			Chevron Richmond Beach	1, 2	Request for Bill of Lading made 10/15/2006		
20.03	272.6	TON	CL. 1 IN. MIN. AGG.		1 Acceptance Sample(s) Required		9-03.8
RAM #31			Proctor Creek D 316 Have Pit Approval Report for D-316	1*	*Accepted by Visual Inspection		
20.04			ASPHALT FOR TACK COAT		Supplier's Cert of Compliance or See Current QPL	Y	5-04.3(5)A & 9-02.1(6)
QPL #14			Paramount Petroleum, Seattle	2148	Bill of Lading on file for this product.		
20.05			Anti Strip Additive		Verify product added to PG Binder at refinery or at th	Y	9-02.4
QPL #12			Ultracote UP-5000	2118	Anti-Strip requirement has been waived by the city No anti strip show on Bill of Lading on file.		

# Documentation Items

- ▶ Approval Documents – RAM, QPL, (or like)
  - Should include every component of the finished product, PG Binder, Aggregates, Blending Sand, Anti-Strip (when used), Pit Approval Reports
- ▶ Acceptance Documents
  - Test Reports, Certification (when required or allowed), Truck Tickets, Inspector Daily Reports.
- ▶ Mix Design
  - See Section 5-04.3, Standard Specifications or APWA CSP.

What is a good Documentation Package?

The documentation should clearly show

the material used,

the manufacturer,

the quantity placed,

the quality of the product.



# A good Documentation Package

Must be  
organized.





# Acceptance Exceptions

- ▶ Appendix 52.108 of the Local Agency Guidelines (LAG Manual) lists exceptions to acceptance criteria that local agencies can use. Be sure to record any exceptions your agency intends to use and modify the Maintained ROM document. Remember to cite the appendix as a reference in the Specification column.
  - ▶ The ROM is a record of the agency's material acceptance process and a map to the contents of the files.
  - ▶ During a Project Management Review (PMR) we will look for a maintained ROM. We will use it to locate information in your files.
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