TXAPA
Texas Asphalt Pavement Association

What's Happening with the Asphalt Pavement Quality Initiative Committee (APQI)

Carl Johnson, P.E., Texas Department of Transportation

Craig Odom, Reece Albert, Inc.

1975 ★ 2025 50TH ANNUAL MEETING Golden Anniversary TEXAS ASPHALT PAVEMENT ASSOCIATION

Quick Recap

- Partnership between TxDOT, TXAPA, and AGC
- Established in 2018
- Meets quarterly
- Solution Driven
- Goal: to get at least one more year out of our asphalt pavements

The AQPI partnership has raised the bar by setting new standards for excellence, focusing on accountability and education, and dedicating itself to quality asphalt pavements.

Committee Member	Company / Division
Carl Johnson (Co-Chair)	TxDOT - Administration
Jessica Butler	TxDOT - Administration
Duane Milligan	TxDOT – Construction
James Stevenson	TxDOT – Maintenance
Jenny Li	TxDOT – Maintenance
Ryan Barborak	TxDOT – Materials & Test
Enad Mahmoud	TxDOT – Materials & Test
Gisel Carrasco	TxDOT – Materials & Test
Pravat Karki	TxDOT – Materials & Test
Glenn Allbritton	TxDOT – Houston
Charles Benavidez	TxDOT – San Antonio
Kelly Morris	TxDOT – Lufkin
Tomas Trevino	TxDOT – El Paso
Chris Cowen	TxDOT – San Angelo
Steve Smith	TxDOT – CST

Committee Members	Company / Division
Craig Odom (Co-Chair)	Reece Albert
Cliff Kay	A.L. Helmcamp
Jason Exum	R.K. Hall Construction
Kal Kincaid	Texas Materials
Josh Houston	Vulcan Materials & Construction
Dean Word III	Dean Word Company
Jeff Greene	Durwood Greene
Jimmy Whited	Big Creek Construction
Matt Byrd	Jebro, Inc.
Jon Epps	TTI
Harold Mullen	TXAPA
Jim Warren	TXAPA
Chuck Fuller	TXAPA
Doug Eichorst	AGC
Michael Lee	AGC
Corey Schwarz	TXAPA

APQI Working Groups

- Liquid Asphalt
- Aggregates
- Heavy Duty Pavements
- Intersections
- RAP Stockpile Management
- Balanced Mix Design
- Partners in Quality
- Asphalt Pavement EXchange (APEX)

Liquid Asphalt Working Group

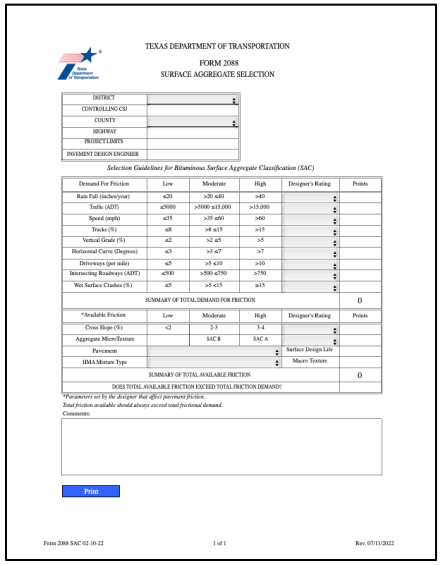
Pravat Karki & Matt Byrd

- Certification Program
  - Address Lab-to-Lab Variability
  - Provide In-State Option for Training & Certification
- Revised the Asphalt Binder Quality Program
- Created the Asphalt Binder Dashboard
- Review, Evaluate, and Update Test Procedures and Specifications

Aggregates Working Group

Kelly Morris, Tomas Trevino, & Jimmy Whited

- Availability of SAC A
- Methods for Providing Pavement Friction
  - Dynamic Friction Test (DFT)
- Evaluating Form 2088



TEXAS DEPARTMENT OF TRANSPORTATION

FORM 2088

SURFACE AGGREGATE SELECTION

DISTRICT	
CONTROLLING CSJ	
COUNTY	
HIGHWAY	
PROJECT LIMITS	
PAVEMENT DESIGN ENGINEER	

Selection Guidelines for Bituminous Surface Aggregate Classification (SAC)

Demand For Friction	Low	Moderate	High	Designer's Rating	Points
Rain Fall (inches/year)	≤20	>20 ≤40	>40		
Traffic (ADT)	≤5000	>5000 ≤15,000	>15,000		
Speed (mph)	≤35	>35 ≤60	>60		
Trucks (%)	≤8	>8 ≤15	>15		
Vertical Grade (%)	≤2	>2 ≤5	>5		
Horizontal Curve (Degrees)	≤3	>3 ≤7	>7		
Driveways (per mile)	≤5	>5 ≤10	>10		
Intersecting Roadways (ADT)	≤500	>500 ≤750	>750		
Wet Surface Crashes (%)	≤5	>5 <15	≥15		
SUMMARY OF TOTAL DEMAND FOR FRICTION					0

*Available Friction	Low	Moderate	High	Designer's Rating	Points
Cross Slope (%)	<2	2-3	3-4		
Aggregate Micro/Texture		SAC B	SAC A		
Pavement				Surface Design Life	
HMA Mixture Type				Macro Texture	
SUMMARY OF TOTAL AVAILABLE FRICTION					0
DOES TOTAL AVAILABLE FRICTION EXCEED TOTAL FRICTION DEMAND?					

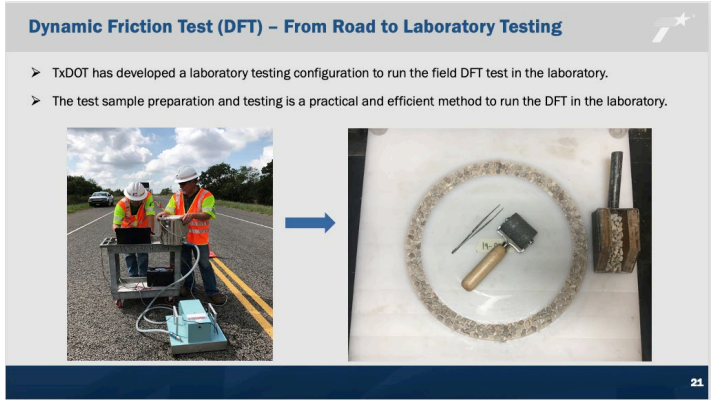
*Parameters set by the designer that affect pavement friction.

Total friction available should always exceed total frictional demand.

Comments:

Print

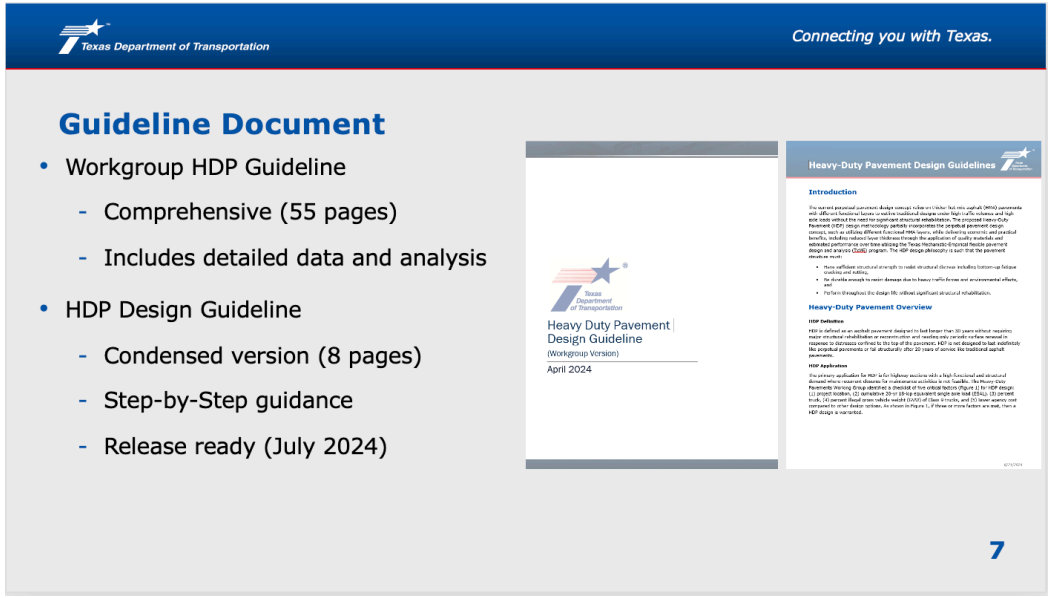
Form 2088 SAC 02-10-22 1 of 1 Rev. 07/11/2022

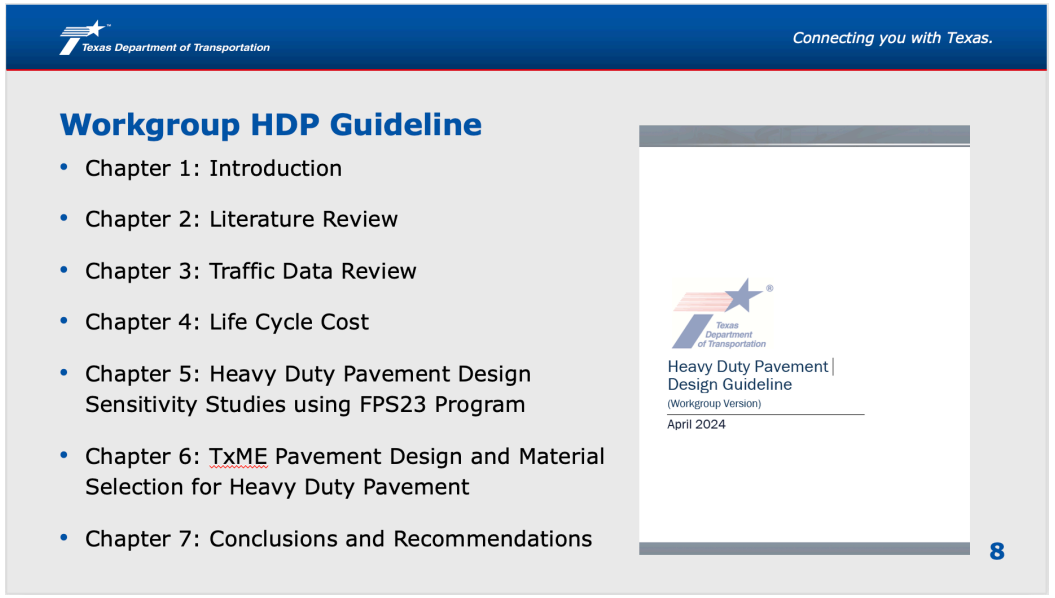


Heavy Duty Pavements Working Group

James Stevenson & Craig Odom

- Heavy Duty Pavement Design Guideline





The goal is to equip districts with the necessary training and resources for designing and constructing asphalt pavements capable of enduring heavy traffic loads while minimizing the maintenance requirements between surface treatments.

Intersection Working Group

Duane Milligan & Jim Warren

- Meeting every month
- Developing Education and Guidance
- Looking at Designs, Traffic Phasing, and Speed of Construction

RAP Stockpile Management Working Group

Ryan Barborak & Harold Mullen

- Increase the use of RAP
  - Sustainability, Availability, Cost Savings, and Performance
- Develop a Guidance Document for Stockpile Management

Balanced Mix Design Working Group

Ryan Barborak & Jim Warren

- Meet Monthly
- 12 Existing Projects
- Over 35 Test Sections
- Developing a Pilot Specification for 3-5 projects (December 2025)

Partners in Quality

Chuck Fuller

- Revamped Format
- Discussion Topics in 2025
  - General Notes Review
  - District Initiatives
  - District Challenges & Issues
  - District Letting & Tonnage Report
  - PMIS Scores
  - MTD Updates

Asphalt Pavement EXchange (APEX)

Chris Cowen & Cliff Kay

- Develop and deliver a dedicated, coordinated, and continuously improved asphalt pavement knowledge sharing education program at TxDOT and Industry Professionals.

Asphalt Pavement EXchange

A TxDOT Quality Initiative for Asphalt Pavements