

2025 ACAF Expo Construction Update

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2026-27 Specification Changes

- 330-7.6
 - Removed Requirement For Traffic Roller on First Overbuild Course

HOT MIX ASPHALT - GENERAL CONSTRUCTION REQUIREMENTS (REV 6-30-25)

SUBARTICLE 330-7.6 is deleted and the following substituted:

330-7.6 Use of Traffic Roller: ~~Use a traffic roller on the first overbuild course.~~ Use a traffic roller or vibratory roller (unless restricted by the Contract Documents) on the first structural layer placed on an AMI.



2026-27 Specification Changes

- 334-1.4.1
 - Removed Restriction Against Placing FC-5 on SP 19.0 Mix

SUPERPAVE ASPHALT CONCRETE (REV 5-8-25)

SUBARTICLE 334-1.4.1 is deleted and the following substituted:

334-1.4.1 Layer Thicknesses: The allowable layer thicknesses for Type SP Asphalt Concrete mixtures are as follows:

Type SP-9.5.....	1 to 1-1/2 inches
Type SP-12.5.....	1-1/2 to 3 inches
Type SP-19.0.....	2 to 4 inches

In addition to the minimum and maximum thickness requirements, the following restrictions are placed on mixes when used as a structural course:

Type SP-9.5 - Limited to the top two structural layers, two layers maximum.

Type SP-9.5 - Do not place less than 1-1/2 inches thick for Traffic Level E applications.

~~Type SP-19.0 - Do not use for the final (top) structural layer below FC-5 mixtures. Type SP-19.0 mixtures are permissible for the layer directly below FC-9.5 and FC-12.5 mixtures. Do not use for the final (top) layer of shoulders.~~



2023 - Limited Access IRI Project Overview

- 30 Projects
 - Lowest Average Project IRI = 32
 - Highest Average Project IRI = 64
 - (Average) Average Project IRI = 47
- 15 Projects Received Incentive (50%)
 - Highest Average Incentive = \$1,901 per lane mile
 - Greatest Average Disincentive = -\$2,183 per lane mile



2024 - Limited Access IRI Project Overview

- 37 Projects
 - Lowest Average Project IRI = 35
 - Highest Average Project IRI = 69
 - (Average) Average Project IRI = 49
- 22 Projects Received Incentive (59%)
 - Highest Average Incentive = \$1,874 per lane mile
 - Greatest Average Disincentive = -\$2,797 per lane mile
- 1 Project Received 3% Consistency Bonus
 - All LOTs $\leq$ 55



2025 - Limited Access IRI Project Overview

- 32 Projects
 - Lowest Average Project IRI = 32
 - Highest Average Project IRI = 73
 - (Average) Average Project IRI = 47
- 18 Projects Received Incentive (56%)
 - Highest Average Incentive = \$1,945 per lane mile
 - Greatest Average Disincentive = -\$3,017 per lane mile
- 1 Project Received 3% Consistency Bonus
 - All LOTs $\leq$ 55



Non-Limited Access IRI Smoothness Projects - 2025-2026

Fiscal Year	Smoothness Class	FIN	District	Avg IRI	Min IRI	Max IRI	Total Incentive	Lane Miles Tested	Avg. Incentive per Lane Mile	Pilot Project, IRI Added Later
2026	3	44514415201	1	40	21	85	\$42,631	27.65	\$1,542	Pilot Project
2026	4	44804015201	7	54	34	87	\$19,595	15.32	\$1,279	Pilot Project
2026	3	44965615201	1	50	33	72	\$5,400	8.40	\$643	IRI Added Project
2026	3	44897415201	1	51	33	76	\$5,012	8.84	\$567	Pilot Project
2026	1	44563115201	3	35	25	54	\$9,512	23.34	\$408	Pilot Project
2026	3	44794815201	7	55	39	85	\$1,082	14.38	\$75	Pilot Project
2026	2	44965615201	1	61	45	82	-\$5,355	3.17	-\$1,688	Pilot Project
2025	3	44575915201	3	41	27	65	\$34,135	20.46	\$1,669	Pilot Project
2025	4	44547315201	1	51	33	87	\$30,776	22.04	\$1,396	Pilot Project
2025	4	44521715201	5	62	37	120	\$11,642	16.70	\$697	Pilot Project
2025	2	44520815201	5	45	30	88	\$876	4.33	\$203	Pilot Project
2025	5	44780615201	6	92	59	118	\$691	3.69	\$187	Pilot Project
2025	3	44620815201	1	55	39	110	\$542	19.46	\$28	Pilot Project
2025	3	44155015201	1	59	32	89	-\$2,102	7.72	-\$272	Pilot Project
2025	4	44610215201	4	78	52	123	-\$6,972	12.62	-\$552	IRI Added Project
2025	3	44617115201	4	62	34	101	-\$15,208	23.24	-\$654	Pilot Project
2025	2	44622915201	1	57	39	86	-\$12,258	13.19	-\$930	IRI Added Project
2025	3	44163115201	4	63	34	110	-\$44,220	45.86	-\$964	IRI Added Project
2025	2	44559015201	3	58	39	94	-\$32,807	26.10	-\$1,257	IRI Added Project
2025	2	42293855201	2	72	49	91	-\$7,830	2.18	-\$3,589	Pilot Project



Non-Limited Access IRI Smoothness Projects - 2025-2026

Pilot Projects Only

Fiscal Year	Smoothness Class	FIN	District	Avg IRI	Min IRI	Max IRI	Total Incentive	Lane Miles Tested	Avg. Incentive per Lane Mile	Pilot Project, IRI Added Later
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QCRR - “Main” Sheet Changes

- **Actual Spread Rate Indicates Outside 10% of Target Spread Rate**
 - Red = Actual More Than 10% Below Target
 - Green = Actual More Than 10% Above Target
 - Gray Cell Background = More Than +/-20% Outside Target
- **“Intended Use”**
 - **Added “FC-7” Mix Type**
 - **Alternate Pay Items Available**
- Fixed “Pay Item Number Import”
- Added “Driveway Base”
- Removed Commas from Station Values
- Fixed Bug - Alternate Pay Items Show Up Correctly in “Bit Cert”



QCRR – “Tack” Sheet & Other Changes

- “Tack” Sheet Changes
 - **Updated Available Tack Types**
 - Per APL as of 2/1/2025
 - Changed “Correction Factor” to “Conversion Factor (K)”
 - Resolved Station Column Width Error, “####”
- Reports
 - Replaced “Negative Tonnage” & “Station” Reports



New VT Roadway Report (#675-030-21A)

- Alternate VTRR Posted on Forms Office Website
- Same Format & Function as QCRR
- One Excel File for All Project Data
- Old VTRR Still Available to Complete Current Projects
 - Can Switch to New VTRR, if District Prefers
- Can Add New Lots to get to Current Lot & Start Entering VT information in current Lot
 - Don't need to re-enter data from old VTRR forms into new VTRR



QCRR Training

- Providing Training for Roadway Personnel, as well as Project Personnel on QCRR
- Data Entry & Use to Oversee Pavement Construction Operations
- Reports & Calculations to Provide Bituminous Adjustments, Pay Quantity Adjustments, Pivot Reports to be used for Project Management of Asphalt Pavement Construction & Payment on Projects



QCRR Training

- Completed
 - D2, D3, D4, D5, D6, D7
- Upcoming
 - D1 – January 6-9
 - Turnpike – To Be Scheduled



QCRR Training

Special Thanks to:

- Amanda Ulmer – SCO Final Estimates
- Melinda Rainwater – JEA
- Rhonda Hale - Meskel
- Keith Sloane – CTI
- Mike Curle – High Spans



Asphalt Plant & Lab Tours

- Thanks to Anderson Columbia
 - Asphalt Plant & Lab Tours for Construction Academy & PE Trainees
- Thanks to CWR
 - Recent Plant, Lab, & Paving Project Tours
 - Design Constructability Discussions with D5 Design



Designers to Roadway

- Taking District Designers out to Milling & Paving Projects
 - D5
 - Others to Follow



Design Constructability Expos

- 1st Design Constructability Expo
 - Oct 14, 2025, in Lake City (D2)
- Combined Past Transportation Symposium Sessions I Originated
 - Milling & Paving Equipment Expos
 - Design Constructability Challenges & Contractor Proposed Solutions
- Milling & Paving Operations Training
 - Milling & Paving Equipment On Site
 - Discussion of Capabilities & Limitations
- Presentations & Discussions
 - Design Requirements
 - Design Constructability Challenges & Contractor-Proposed Solutions



1st Design Constructability Expo



INCE NEXT MILE * NEXT LEVEL

1st Design Constructability Expo



ACAF 2025 FLORIDA ASPHALT

Design Constructability Expo



ACAF 2025 FLORIDA ASPHALT EXPO

Design Constructability Expos

Special Thanks to:

- Phil Ireland (Ring Power)
- Mark Halvorsen (Ring Power)
- Kevin Wall (Beard Equipment)
- Kaleb Crumpler (Wirtgen)
- Tom Chastain (Wirtgen)



Design Constructability Expos

- Special Thanks to:
- Chris Harris (Anderson Columbia)
- Scott Fowler (Ranger Construction)
- Richard Brown (Ranger Construction)
- Joe Meier (Middlesex)
- Rick Crocker (PMI)
- John Savage (Ajax)



Design Constructability Expos

- Special Thanks to:
- Mary Jane Hayden (CO Design)
- Kathy Thomas (D2 Design)
- Chris Dicks (D2 Design)
- Belqis Majboor (D2 Design)
- Pat Upshaw (D2 Maintenance)
- Kevin Rogers (D2 Construction)
- Shawna Strauch (FDOT CO)
- Rose Jones (D2 Maintenance)
- Amanda Bradley (D2 Maintenance)



Design Constructability Expos

- Special Thanks to:
- Amy Miller (ACAF)
- David Allain (ACAF)
- Ellie Hayes (ACAF)
- Sandra Bucklew (ACEC)



Next Design Constructability Expo

- March 31, 2026
- District 4
- Showcase Pavement Construction Operations at this Expo
 - Milling
 - Sweeping
 - Tacking
 - Paving
 - Compaction



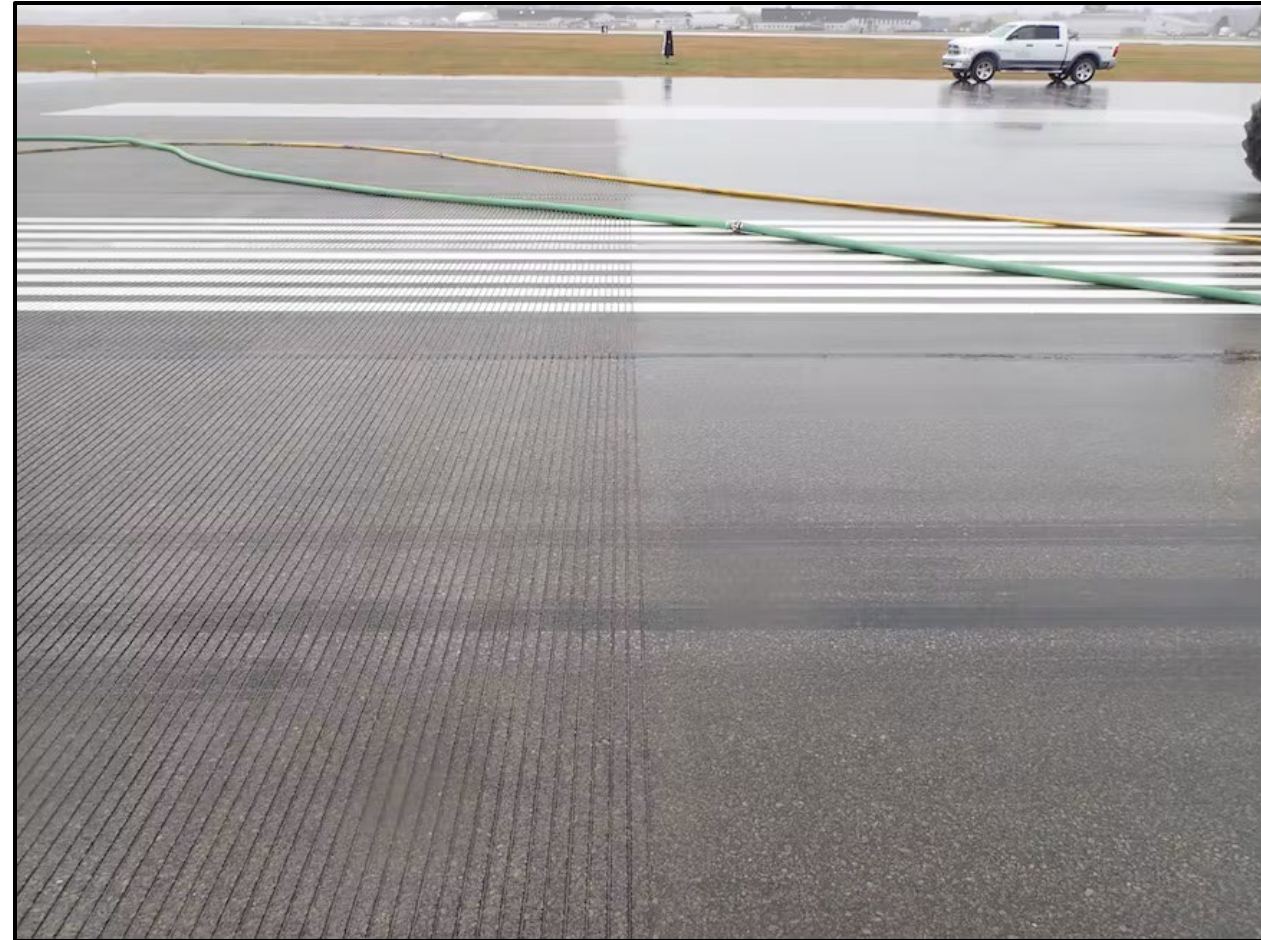
New Ideas, Equipment, Methods, & Technologies



EXPO

Longitudinal Grooving

- Other States Have Longitudinally Grooved Dense-Graded Asphalt
 - Missouri, NY, Ohio, California
 - Saw Reduced Crash Rates
 - Especially Wet Weather Crashes
- Florida
 - Transverse Grooving on Airport Runways & Taxiways
 - Sections of Grooved Dense-Graded Asphalt Planned in D7 & D1
 - Being Considered in Other Districts



Longitudinal Grooving Dense-Graded Friction Course

- Increases Friction, Macrotexture, & Hydroplaning Resistance
- Alternative to OGFC
- SR 60 Underway-Grooving Jan/Feb
 - 3 Other Pilot Projects



Longitudinal Grooving



Automating Construction Inspection

- Obtain Construction Inspection Data from Construction Equipment
 - Started with Panel Discussion @ 2024 FTBA Construction Conference
 - Continuing with Automated Construction Inspection Team
- Potential Methods
 - Use Existing Technologies On Equipment (AMG, Slope, Paving Width???)
 - Add Additional Equipment (Temperature, Density, ???)
- Goals
 - Safer, More Automated Construction Inspection Data Collection
 - Collect Data & Location From Construction Equipment
 - Ex. Milled Cross Slope from Milling Machine
 - View Real Time Data As Construction Occurs
 - Save/Export Data for Project Records



Questions?

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