



**MATERIALS
& ASPHALT
PAVEMENT
SOLUTIONS**

Houston, TX
April 28 - 29, 2026

Planning for Success

Chuck Fuller

An aerial photograph showing a road construction site. A large white truck with a blue trailer is parked on a dirt road. Several workers in high-visibility vests are visible near the truck. The background shows a large body of water and a field of dry, harvested crops.

Quality Pavement Through Communication

Chuck Fuller: Texas Asphalt Pavement Association

2025 Texas Quality Asphalt Pavement Award Winners



Specialty Project

City Street



City of Dallas

JAGOE-PUBLIC COMPANY
DENTON, TEXAS

Large Airport

Small Airport Category



**Positive
Neutral
Poison**



“

*"Nothing Bad Happens Until
Something Bad Happens."*

”



COMMUNICATION

PAVING IS A TEAM PROJECT

- Including Management
- Goal is Non-Stop Paving
- Balanced Paving



QUALITY CONTROL PLAN (QCP)

DEVELOP & FOLLOW

Submit a written QCP before the mandatory pre-paving meeting
Receive approval of the QCP before the beginning of production. Include the following items in the QCP:

- Project Personnel “Certifications
- Production “Asphalt Plant”
- Transporting “Trucking”
- Placement “Laydown”
- Compaction “Rolling”



AGENDA FOR ASPHALT PRE-PAVING MEETING

- Project Information
- Project Staffing
- Project Materials
- Production - Sampling - Testing
- Placement - Sampling - Testing
- Construction Procedures
(Phasing - Ride Quality)

ALL-HANDS PLAN



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3. Contractor and TxDOT field representative should produce a copy of the final document with all notes.

PROJECT SPECIFICS

Date:	Project:	CSJ:
Specification:	Highway:	County:
Contractor:	Producer:	Plant Location:
Proposed Start Date:	Proposed Completion Date:	

ASPHALT PAVING ESCALATION LADDER

TxDOT		CONTRACTOR	
CEI Inspector:		Contractor Level 1B:	
Phone:	Time to Resolve:	Phone:	Time to Resolve:
TxDOT Inspector:		Contractor Superintendent/Forman:	
Phone:	Time to Resolve:	Phone:	Time to Resolve:
TxDOT Project Manager:		Contractor Project Manager:	
Phone:	Time to Resolve:	Phone:	Time to Resolve:
Area Engineer's Office:		Contractor Manager:	
Phone:	Time to Resolve:	Phone:	Time to Resolve:
District Engineer:		Prime Contractor:	
Phone:	Time to Resolve:	Phone:	Time to Resolve:

DEDICATED TO QUALITY
TEXAS RIDES ON US

P.O. Box 1468
Buda, Texas 78610

Phone (512) 312-2099
Email info@texasasphalt.org

texasasphalt.org

PROJECT INFORMATION

- Roadway
- County
- Location
- Start Date
- Producer
- Crew Placing



Escalation Ladder

PROJECT STAFFING

- Owner Engineer
- Owner Project Manager
- Owner Inspector
- Contractor Super
- Contractor Quality Control
- Plant Supervisor



PRODUCTION

- QCP Approved
- Mix Design Approved
- Lot Size - Testing
- Binder - Testing
- Reporting Timeframe



PLACEMENT

- Min. - Max. Lift Thickness
- Min. - Max Temperatures
- Density Locations
- Exempt Areas
- Segregation
- Mix Tickets - Yield

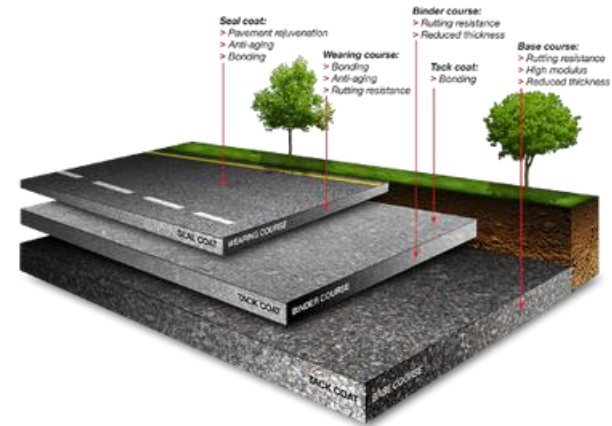
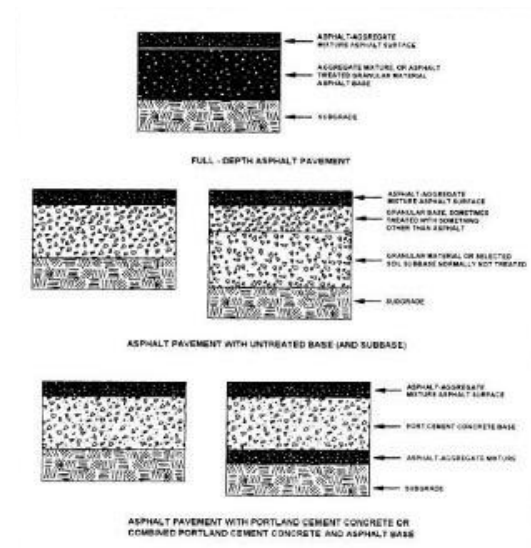


CONSTRUCTION PROCEDURES

- Phasing
- Traffic Control
- Building Edge
(Driveway - Intersection)
- Ingress - Egress
- Surface Irregularities
- Straight Edge



PAVING PLAN, WIDTHS, OFFSETS, & THICKNESSES



BALANCE PRODUCTION, DELIVERY, COMPACTION, & SMOOTHNESS



BALANCE PRODUCTION, DELIVERY, COMPACTION, & SMOOTHNESS

Balance-Production-Rates-16Jan2020.xls - Read-Only - Compatibility Mode

Home Insert Draw Page Layout Formulas Data Review View Automate Tell me Comments Share

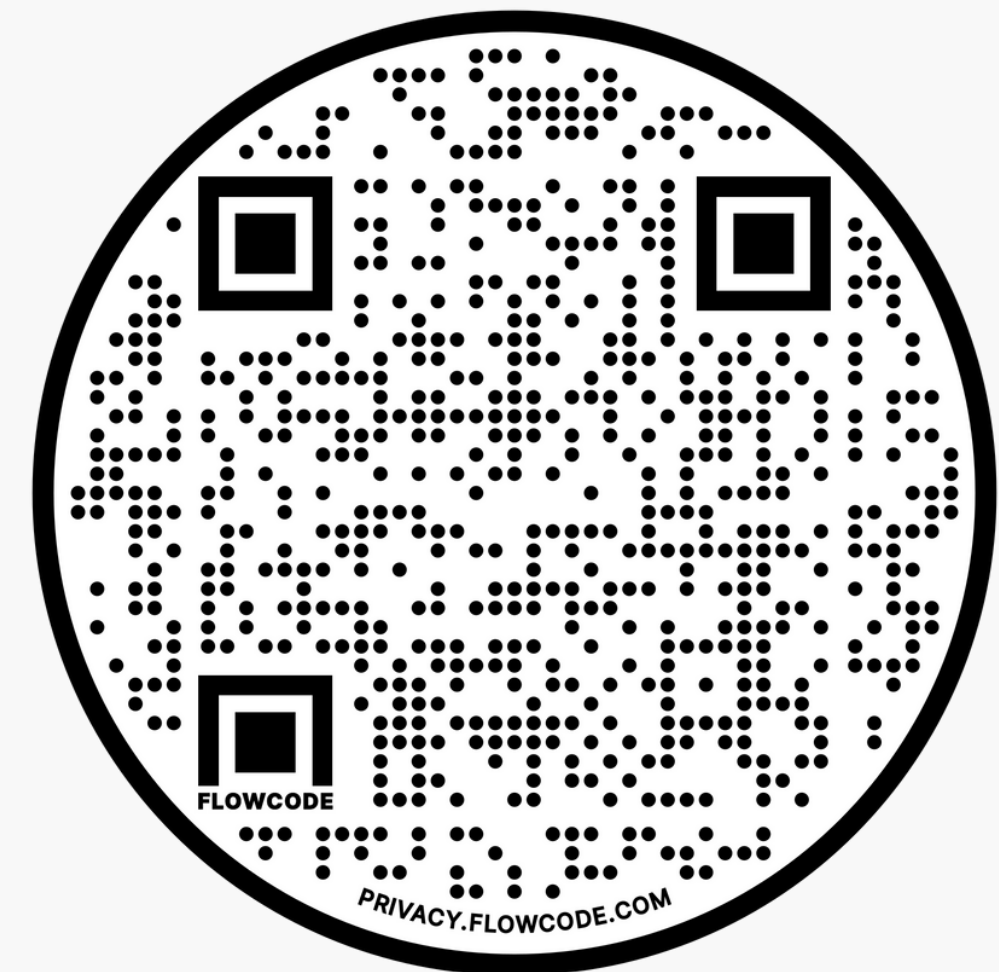
B23

	A	B	C	D	E	F	G	H	I	J	K	L
1	MIX DELIVERY RATE		PAVING RATE			ROLLING RATE						
2	Plant Rate Avail.	200	tph	Paving Width	12	feet	VPM (highest)	3000	vpm			
3	Total Mix	1500	tons	Paving Thickness	2	inch	Impacts/foot (10-12)	10	impacts/ft			
4	Total Paving Time	8	hours	Reference Density	150.0	pcf	Reverse factor (10%)	10	%			
5	Mix Rate	187.5	tph	Target (% of Ref.)	93	%	Roller Speed	300.0	fpm		3.4	mph
6	OK?	Truck>Plant = OK!		Compacted Density	139.5	pcf	Effective Speed	270.0	fpm			
7	Truck Capacity	20	tons	Yield	209	psy	Drum Width (in.)	78	inches			
8	Total Trips	75	trips	Paver Rate	22.4	fpm	Overlap (6 inches)	6	inches			
9	Prep/Wait@Plant	5	min.	Paver Efficiency	80	%	Eff. Drum Width	6.00	feet	Actual		
10	Load Time	2	min.	Paver Speed	28.0	fpm	# of Passes to cover	2			2.0	
11	Ticket/Tarp Time	3	min.				# of Coverages	3				
12	Haul Time	25	min.				Total Passes	7			6.0	
13	Wait @ Job	5	min.				Roller Efficiency	80	%			
14	Dump/clean	5	min.				Roller Rate	30.9	fpm			
15	Return Haul	25	min.				Rolling Zone	250				
16	Truck Cycle	1.17	hours/trip				Time Elapsed	8.1				
17	# of Loads	6	loads/truck									
18	# of Trucks	13	trucks									
19	OK?	Drop 1 truck later										
20												
21												
22												
23												
24												
25												
26												
27												

	Paver	Roller	
Production Rate (fpm)	22.4	30.9	Rates are Balanced
Production Rate (SY/h)	1792	2469	Make It Black!

BALANCE

Ready Accessibility: Unavailable 130%

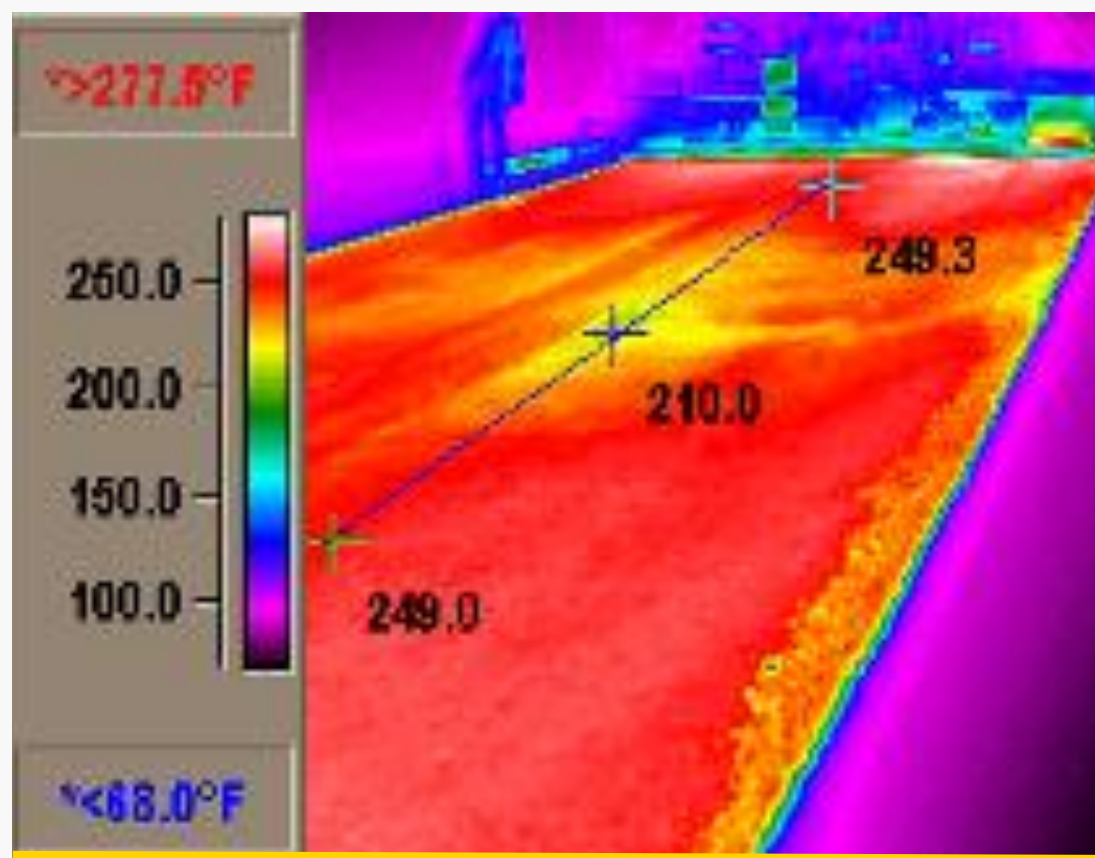


Balance-Production-Rates
QR code

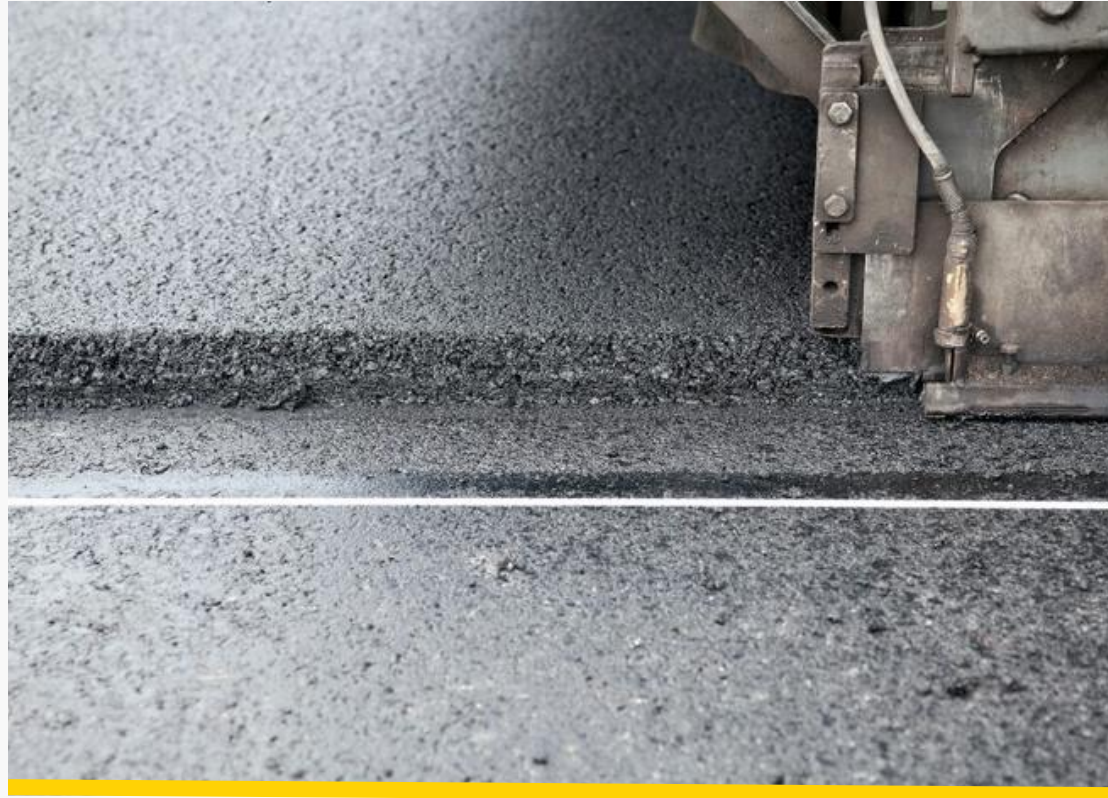
TRANSFER MIXTURE INTO PAVER AVOIDING SEGREGATION & SPILLAGE



PAVER OPERATIONS



QUALITY LONGITUDINAL AND TRANSVERSE JOINTS



Some unique issues that can be discussed and agreed upon before construction

- Contractor doesn't want to throw mix away
- Owner wants a smooth, durable, long-lasting pavement
- Discuss before pavement work begins
- Discuss payment options

ALL-HANDS PLAN

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ASPHALT PAVING ESCALATION LADDER

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ALL-HANDS PLAN

PAGE 2

PRODUCTION SIZE

4. Identify lot size: _____ tons
5. The Inspector and Paving Superintendent should have a discussion prior to making any changes to the lot size. Notify lab and plant personnel of any changes. The goal is to choose a lot size that consistently achieves four sublots per day.
6. Discuss where to end lots. (Exact Tonnage, Nearest Ticket to Tonnage, etc.) _____
7. Discuss incomplete lots and sublots. Will you carry into the following production day or close out and begin a new lot?

POINTS OF DISCUSSION

1. Safety:
 - a. Identify vehicles that have safety kits, fire extinguishers, and spill kits.
 - b. Identify the nearest emergency room.
 - c. Identify individuals who are certified in CPR and first aid.
2. Discuss the Traffic Control Plan.
3. Review applicable Special Provision: SP _____
4. Review General Notes (material transfer device, backfill requirements etc.).
5. Surface Irregularities: If a pattern of surface irregularities is detected (including, but not limited to, color, texture, roller marks, tears, uncoated aggregate particles, or segregation):
 - d. The Contractor shall make an investigation into the cause(s) and immediately take the necessary corrective action.
 - e. Placement may continue for no more than one (1) day of production from the time the Contractor is first notified and while corrective actions are being taken.
 - f. If no corrective action is taken or if the problem exists after one (1) day, paving shall cease until the Contractor further investigates the causes and the Engineer approves further corrective action.
 - g. Remove and replace, at the Contractor's expense, any mixture that does not bond or has surface irregularities.
6. Discuss how to achieve the required Ride Schedule (Item 585).
7. Discuss the need to establish random numbers at the end of the sub-lot and distribute accordingly.
8. Roadway cores:
 - a. Discuss lane closures and safety in cutting the cores.
 - b. Discuss not being able to cut the core at the end of the shift. When is the next available time to cut the cores?
 - c. Discuss witnessing and chain of custody of the cores.



ALL-HANDS PLAN

PAGE 3

WHAT IF?

Issue	Question	Suggestion	Plan of Action
Rain event during placement	Do we wait it out and continue to pave?	The area in question is marked and identified as an isolated area. Rely on QA test results as to whether material is acceptable or not.	
Equipment breaks down	Do we wait it out for new equipment to show up or repair existing equipment?	The area in question is marked and identified. Rely on QA test results as to whether material is acceptable or not. If break downs are reoccurring, have standby equipment available on site.	
Issues causing trucking delays	What if delay between trucks is greater than: - minutes? _____ - temperature? _____	Move the paver away from the mat. Clean out and proceed with a new transverse joint when the trucking issue is resolved.	
Unexpected event leading to road user cost	What if an accident or other issues not caused by the contractor cause a delay in getting off the roadway in time?	Each event should be addressed individually. The main objective is to provide the traveling public the least inconvenience and safest travel. Address lane drop-offs and transitions.	
Trucking issues	What if the load is overweight?	There is no payment for material over the accepted weight limit.	
Trucking issues	Is the truck equipped with an adequate tarp?	Utilize the load in question if the temperature is acceptable and make aware a need for the correct tarp.	
Trucking issues	What if loads are dumped out of order?	Utilize the load and make aware a need for the correct order to verify tonnage.	
Load issues	What if the load is hot, cold, contaminated, or has uncoated aggregate?	Utilize the QA testing as much as possible to prove or disprove material acceptability. Nobody wants to throw material away. Discuss if there is another use for the material (driveways, detours, backfill edges, etc.).	
Driving equipment on the new roadway	What if the new pavement gets scarred/marred?	During the Pre-Pave Meeting, it is discussed how equipment will be moved and parked along the project site, including crew trucks and personnel workers' vehicles. Hauling track machines and/or rollers may be required to and from the work site.	



ALL-HANDS PLAN

PAGE 4

DAILY DEBRIEF

The Contractor Superintendent/Foreman debriefs daily with the Project Inspector to discuss recommended items, including:

- traffic control queue
- straightness of longitudinal joints
- smoothness of transverse joints
- overall appearance (segregation) of the roadway
- smoothness of overall ride
- any other item that can improve the quality and production of the project



ALL-HANDS PLAN

- PROJECT SPECIFICS
- ESCALATION LADDER

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P.O. Box 1468
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ALL-HANDS PLAN

- PRODUCTION SIZE
- POINTS OF DISCUSSION

ALL-HANDS PLAN

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ALL-HANDS PLAN

- WHAT IF?

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PAVEMENT PREP FOR OVERLAYS & MAINTENANCE WORK

- Physically look at pavement structure
- If repair is needed - look for the cause
- Understand the need to repair
- Utilize the tools in the toolbox
- If not corrected be aware of the consequences

TOP 5 TAKEAWAYS

- 1 Communication
- 2 Quality Control Plan
- 3 Escalation Ladder
- 4 Resource Page
- 5 All Hands (Debrief)



WHAT DO YOU SEE?



WHAT DO YOU SEE?



WHAT DO YOU SEE?



WHAT DO YOU SEE?





WHAT DO YOU SEE?



WHAT DO YOU SEE?



WHAT DO YOU SEE?



WHAT DO YOU SEE?

WHAT DO YOU SEE?



WHAT DO YOU SEE?



Questions?



Chuck Fuller
512-657-7970



Send us an
email
chuckfuller61@gmail.com

