

Compacted Concrete Pavement (CCP) Placement



ACPA/MoDOT Quarterly Meeting
November 7, 2018

Thanks!!

- Emery Sapp & Sons

- Andale

- Euclid

- National Road Research Alliance (NRRRA)

- Minnesota DOT

- Missouri University Science & Technology

- Southeast District - MoDOT



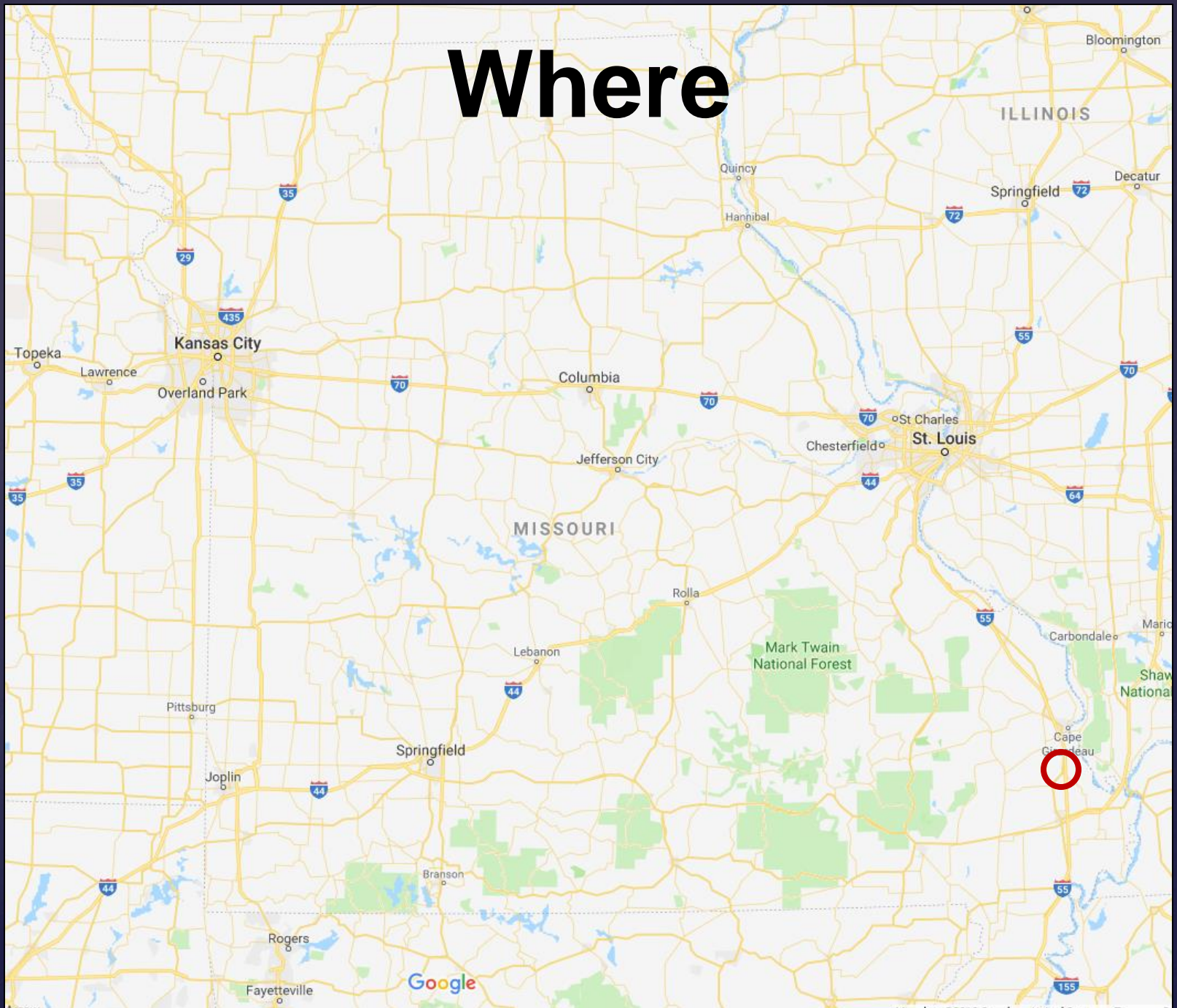
EUCLID CHEMICAL



ANDALE
READY MIX CENTRAL INC.



Where



Project Location

- Outer Road – East side of I-55
- Scott County
- Approx. 2 miles
- 6 inches thick
- Test Strip on Oct. 24
- Full Production started on Oct. 25



Concrete Plant



Concrete Plant



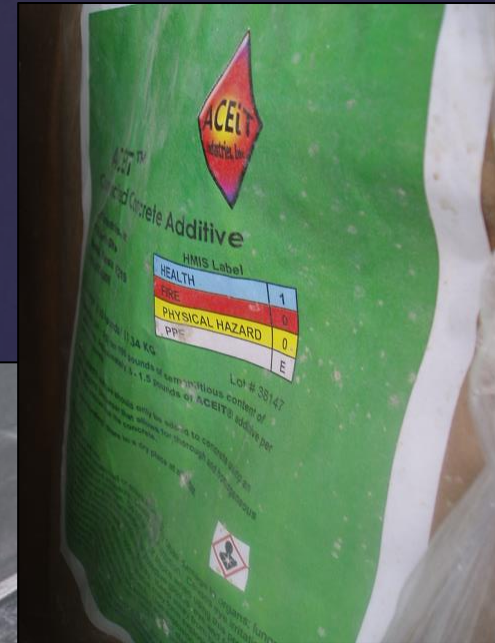
Concrete Plant



Concrete Plant



Adding ACEit Admixture



High Density Paver



High Density Paver



Stringless Paving



Test Strip



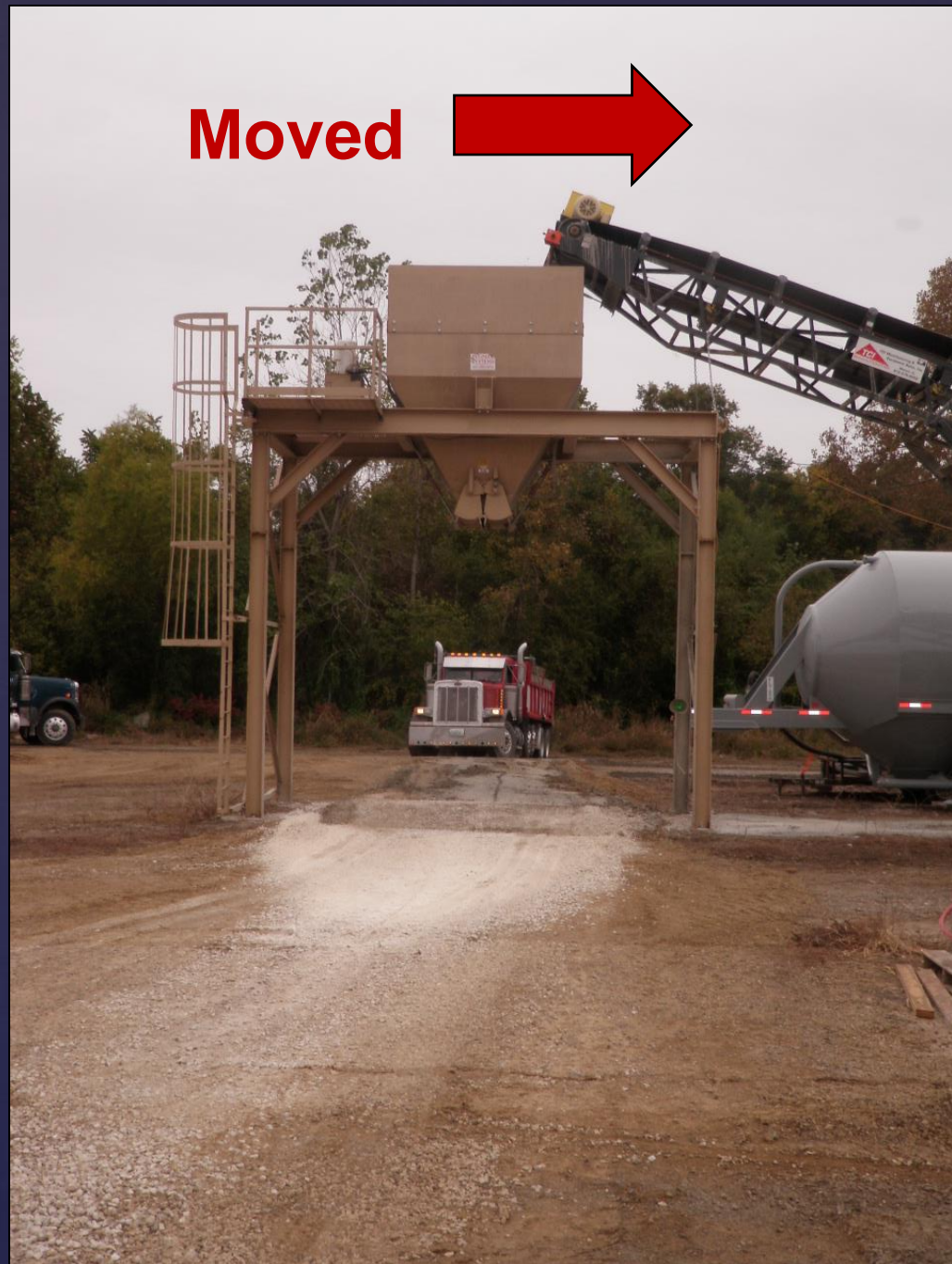
Test Strip



Truck Loading



Adjusted Conveyor Belt



CCP Placement



CCP Placement

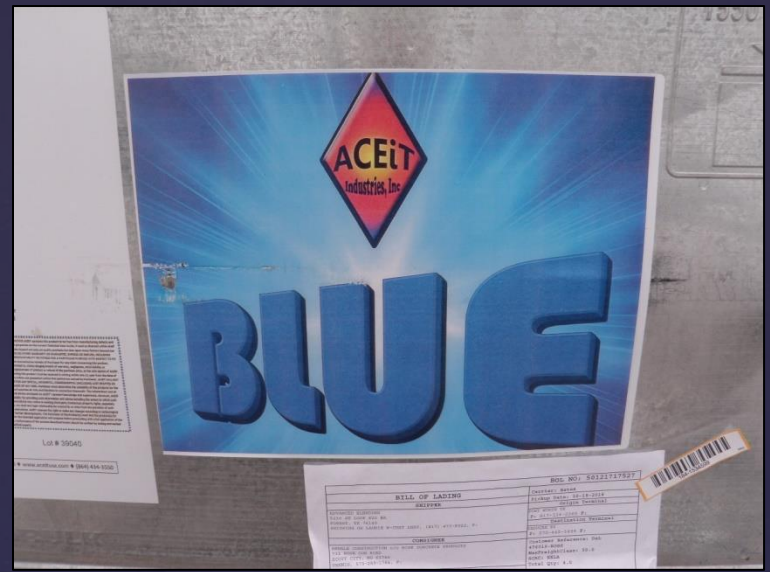


Density Testing



- Typically 98% behind the paver

Finishing CCP



Finishing CCP



Texturing CCP



Curing



Sawing



Test Sections

Constructed three test sections

- Test Section No. 1 (500 ft.)
 - 15 ft. joint spacing
 - No fibers
- Test Section No. 2 (500 ft.)
 - 12 ft. joint spacing
 - No fibers
- Test Section No. 3 (250 ft.)
 - 15 ft. joint spacing
 - Macro fibers utilized

Sensors





Sensors

Sensors



Sensors



Test Section No. 1



Test Section No. 1



Test Section No. 2



Test Section No. 2



Test Section No. 3

Looking North



Looking South



Test Section No. 3



Test Section No. 3



Test Section No. 3



Macro Fibers



- 5 lbs./cu. yds.
- 2" in length



Adding Fibers



CCP with Fibers



Molding Samples



- Missouri University of Science & Technology

Molding Samples



- Missouri DOT