

# Just-In-Time Training



## Southern Beltway Projects - U.S. Route 22 to I-79

**55A1** U.S. 22 ROUTE TO QUICKSILVER RD.



**55B** PANHANDLE TRAIL TO CECIL REISSING RD.



# Just-In-Time Training : JIT2

## Contract Special Provision

### F27.00 PORTLAND CEMENT CONCRETE PAVEMENT TRAINING (ITEM: 4000-0048)

1. **DESCRIPTION** - Just-in-time training (**JIT2**) is a formal class for joint training of Contractors, Commission employees, their agents, subcontractors and consultant inspectors that will be associated with the construction or rehabilitation of Portland cement concrete pavement projects.

2. **SCOPE** - The training shall include, but not be limited to, concrete pavement basics, pre-paving considerations, long-life concrete pavement concepts, materials, best practices for concrete pavement construction, monitoring standard and innovative paving equipment and operations, quality control, measurement and materials testing protocols and procedures, available tools and software for monitoring work, and troubleshooting.



## JIT2 Participants

### Section 55A1

### Section 55B



**INDEPENDENCE EXCAVATING**



**CDR | MAGUIRE**



## JIT2 Attendees

**Prime Contractor**

Owner  
 Project Manager  
**Paving Contractor**  
 Owner  
 Project Manager  
 Equipment Superintendent  
 Paving Superintendent  
 Paving Foreman  
 Paver Operator/Mechanic  
 Paving Crew and Finishers  
 QC Manager  
 Concrete Plant Operator  
 QC Technicians (Plant and Field)  
 Surveyors

**Sub-Contractors**

Saw and Sealing Contractor  
 Cement Supplier  
 Flyash/Slag Supplier  
 Admixture Supplier  
 Aggregate Supplier  
 Dowel Bar and Tie Bar Supplier  
 Joint Seal Supplier  
 Trucking Companies

**Ownership**

Project Engineer  
 Assistant Project Engineer  
 Materials Supervisor  
 Materials Manager  
 Roadway Designer  
**Consultant Engineering Firm**  
 Project Engineer  
 Project Manager  
 Inspector In Charge  
 Field Inspection Staff



**INDEPENDENCE EXCAVATING**

## JIT2 Section 55A1



**Presenters: John Becker, P.E. and Richard Jucha, P.E.  
 PA Chapter ACPA**



# JIT2 Section 55B



**Presenters: John Becker, P.E. and Richard Jucha, P.E. - PA Chapter ACPA  
Gordon Smith, P.E. – National Conc. Pavement Technology Center, Iowa State University**

## Reference Materials

Handouts provided by ACPA for all participants.



## JIT2 Purpose/Focus

### ➤ Review Best Practices in Concrete Technologies

## Topics Discussed

- |  |  |
|--|--|
| 1. Explanation of the JIT2 Training                    | 6. Review the Plan for Concrete Placement    |
| 2. Identify the Responsible Parties and Their Function | 7. Quality Control Testing (Field and Plant) |
| 3. Review the Project                                  | 8. Safety                                    |
| 4. Discuss the Process for Concrete Paving             | 9. Best Practices                            |
| 5. Discuss the Long Life Concrete Mix Design           | 10. Trouble Shooting                         |
|  | 11. Open Questions and Discussion            |



## Participants Comments (JIT2 Benefits)

- |   |  |
|---|--|
| ▪ Identified the Agencies Expectations            | ▪ Good Quality Control Discussion            |
| ▪ Characteristics of Long Life Conc. Pavement     | ▪ Helped to improve communication            |
| ▪ Identified the persons involved and their rolls | ▪ Helped get everyone on the same page       |
| ▪ Improved understanding of placement plan        | ▪ Focused on paying attention to the details |

## (JIT2 Concerns )

- Better participation/attendance by Contractor and Agency Representatives
- Review of Producer QC Plan



## Lessons Learned

### First Day of Paving – Sec. 55A1

1. Basic review of field acceptance testing protocol.
  - ✓ Contractor unclear concerning location of acceptance testing.
2. Review of documentation required by field inspection staff.
  - ✓ The need to send the individual batch tickets with each truck to the paver.
3. Need for additional review of the AASHTO T318 test protocol and resulting data.
  - ✓ Point of sampling and comparability to plant W/C Ratio



**Thank you**

Sec. 55A1 JIT2 training pictures Courtesy of Rich Jucha, ACPA