### DESIGN ISSUES

**PROJECT**
- Profile
- Underdrains
- Thickness
- Cross Slope
- # of Lanes
- Width
- Pay Items

**CONTRACT**
- "D" Cracking (AP)
- Rideability (Profilograph)
- Strength (flexural test)
- Surface Friction (Tinning, Texture & FA)
- Durability (Air Content)
- Cracking (Joint spacing / Subgrade)
  - Transverse
  - Longitudinal
- Joints (Match Req'mts)
- Scaling (Curing)
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**Joints**
- Transverse Joints
  - D-1 Joints Shoulder Line to Shoulder Line
- Longitudinal Joints
  - At Lane Lines
    - Exception @ inside shoulder
- Construction Joints
  - Rebar
  - Dowel
- Tapered Panels
- Intersections
CONTRACT DETAILS

- Joints
  - Transverse Joints
  - D-1 Joints Shoulder Line to Shoulder Line
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    - At Lane Lines
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  - Construction Joints
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**INDOT SPECIFICATION BOOK**

- Design Manual
- Standard Drawings
- Specification Book
  - Supplemental Specs
  - Special Provisions

**SPECIFICATIONS**

- QC/QA PCCP = CA+FA+PC+Air+ADMS+H₂O
INDOT SPECIFICATION BOOK

501 500 Section
QC/QA PCCP = CA+FA+CM+Air+ADMS+H₂O
Mix Design
900 Section

MIX DESIGN

- Concrete Mix Design (Project)
  - 501.05
- Portland Cement (Project)
- Aggregate Selection (Project)
  - Fine Aggregate
  - Coarse Aggregate
- Admixture (Project)

VOLUMETRIC PROPERTIES

- Flexural Strength
- AIR Content
- Thickness
- Smoothness

ACCEPTANCE

THE END

THANK YOU