Local Roads Concrete Flatwork Specifications

- Developed for less agency inspection and greater contractor responsibility
- Intent is for more durable concrete
- Greater onus put on contractor quality control

Matthew J Zeller PE
Executive Director, CPAM
Local Roads Concrete Flatwork Specifications

• Performance vs Prescriptive mixes
Local Roads Concrete Flatwork Specifications

- Minimize surface defects by:
  - Better & timely curing
Local Roads Concrete Flatwork Specifications

- Minimize surface defects by:
  - Better & timely curing
  - Qualified personnel
Local Roads Concrete Flatwork Specifications

- Minimize surface defects by:
  - Better & timely curing
  - Qualified personnel
  - Post construction testing
Local Roads Concrete Flatwork Specifications

- Little Oversight of Contactors
- No requirements as to contractor experience or certification
Local Roads Concrete Flatwork Specifications

- Proposed Spec includes:
  - Contractor Quality Control Plan
  - ACI certified finishers
  - Quality Assurance options
    - In-house inspection
    - 3rd Party inspection (bid item)
    - Cores
- Education and Training
Local Roads Concrete Flatwork Specifications

• We can do better, we need to expect better
Local Roads Concrete Flatwork Specifications

• Together we can build better performing concrete with a little effort
Concrete Pavement Rehabilitation
Best Practices for Local Roads

A NEW LATP CLASS OFFERED BY THE CENTER FOR TRANSPORTATION STUDIES AT THE UNIVERSITY OF MINNESOTA
Goals of Class

• Learn new State Aid Standards
• Learn how to estimate quantities
• Complete Field review of street
• Compare answers from teams
• Review State Aid Standards
• Review of Actual Repairs in Field
Concrete Rehab Basics

• All Joint Repairs are SA-A_

• All Partial Depth Repairs are SA-B_

• All Full Depth Repairs are SA-C_
Owatonna SA – C2
Curb & Gutter Removal
Catch Basin Needs Repair
Curling & Warping
Upcoming Classes (tentative)

• Washington County (Stillwater) April 18-19
  – Local roads based

• Hutchinson (TH 212) April 25-26
  – Highway based