Kossuth County Engineer’s Office
Construction Season 2009

Presented To: CE 105
Presented By: Adam Miller, E.I.

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The Code of Iowa requires all counties to employ a licensed civil engineer known as the County Engineer. All construction and maintenance work on the county secondary roads is performed under the supervision of the County Engineer who is deemed responsible for the efficient, economical and good-faith performance of said work. It is the duty of the Board of Supervisors to establish policies and provide adequate funding in order to properly maintain the secondary road system. Additional guidance comes from the policies and safety standards developed by the Iowa Department of Transportation and the Federal Highway Administration.

The Kossuth County Engineer’s Office is responsible for the planning, the design and the supervision of all construction and maintenance work performed on the secondary road system. Kossuth County’s road system includes a total of 1,654 miles of roads. Of that total there are 500 miles that are paved. There are also approximately 800 bridges over 20 feet in length and about 150 large culverts in the secondary system.

The secondary road department, under the supervision of the County Engineer, is responsible for the general maintenance of all of the county roads, bridges and culverts. This includes installing of traffic signs, maintaining the road surfaces, vegetation control in the road right of way, winter snow and ice control and mechanics for the maintenance and repair of the trucks and equipment.
What is My Job?

• Preparing Bridge/Culvert Plans
  – Sizing new bridges/culverts
  – Completing necessary permits
  – Drawing up plans
• Bridge Construction Inspection
• Maintaining Databases
• Anything Else That Needs To Be Done

Preparing The Project Plans
Two Bridge Projects and a Grading Project - All Within 500 Feet!

Bridge Inspection: Pile Driving
Bridge Inspection: Pile Driving

Bridge Inspection: Checking Deck
Calibrating The Testing Equipment

Bridge Deck Pour
Bridge Deck Pour

Bridge Deck Pour
Bridge Deck Pour

Bridge Inspection: Lab work
Keeping Up With Paperwork

The Finished Product
Progress as of Yesterday

2009 Kossuth County Projects

- 5 Continuous Concrete Slab Bridges
- Lowering of 2 Culverts
- Grading (1.5 Miles)
- Slurry Leveling (61 Miles)
- Seal Coat (18 Miles)
- Center and Edgeline Painting (1/3 of County)
- Asphalt Overlay (27 Miles)
- New Asphalt Pavement (0.5 Miles)
Seal Coat Inspection

Seal Coat: Filling The Distributor
Seal Coat: Dumping Rock Into Spreader

Seal Coat: Spreading Rock Over Tar
Seal Coat: The Aggregate (Rock)

Seal Coat: Compacting
Seal Coat: The Finished Product

Asphalt Paving Inspection
Asphalt: Creating The Windrow

Asphalt: Picking Up The Windrow
Asphalt: Paving

Asphalt: Paving The Intersections
Asphalt: Compacting

Asphalt: Finishing
Questions???

Adam’s Tips

1. Excel is a wonderful tool, Learn it well.


3. You don’t always have to know the answer; you just have to know where to look it up!