TRAFFIC MANAGEMENT ADVISORY COMMITTEE

Zoom Meeting

Wednesday October 7, 2020
Agenda

• Introductions
• Clayton Burke, Iowa DOT
  – District 1 Construction Updates
  – Workzone Safety Initiatives
  – Planed Safety Improvements on Major Roadways
• Community Updates
  – Des Moines Regional ITS Architecture Update ITS Inventory Phase
Introductions

Please briefly introduce yourself through audio or the Chat Box with your:

– Name
– Organization
DISTRICT 1 CONSTRUCTION UPDATES
WORKZONE SAFETY INITIATIVES
SAFETY IMPROVEMENTS ON ROADWAYS
Iowa DOT Des Moines MPO Update
Iowa DOT Safety Initiatives

- Work Zone Data Initiative
- Interstate Pavement Markings
- Audible Attenuator
- Portable Transverse Rumble Strips
- Speed Feedback Signs
Work Zone Data Initiative

• Statewide sensor network
• Intelligent Work Zones
• Lane Closure Planning Tool
• InTrans
• Smart Arrowboard
• U.S. Grant
• Delay Policy
Traffic Sensor locations
Iowa DOT Lane Closure Planning Tool
IWZ Queue Detection
Iowa DOT currently restripes all routes every six to twelve months.

New Interstate markings are grooved multicomponent paint designed to last four years.

1.5x wider for better visibility.

Black trailing contrast marking helps centerline visibility.

Wet recoverable/reflective beads are added to improve wet visibility.

Improvements help both drivers and AV technologies.
Iowa DOT Statewide Pavement Marking Update

Neal Hawkins
hawkins@iastate.edu
Lane Keep Assist with Lane Departure Warning

✓ reduced lane departure-related crashes by 20%

Lane Change Alert with Side Blind Zone Alert

✓ reduced lane change crashes by 26%
Does your agency use **wet reflective media** for your pavement markings?

Survey results: Iowa DOT/CTRE July 2020 (Neal Hawkins, Omar Smadi)
Iowa DOT Approach

- 6” (Wider) Pavement Markings using a Long Life Marking Material
- Grooved in Wet Weather White Skip Line with Shadow Stripe for high contrast
- 80mil groove depth for protection
- Durable Legends at the top of each interstate ramp (arrows, only, stop bar, crosswalk)
1. Starting with new projects on Interstate

- New Developmental Specification for marking materials, grooving, wider lines
- To be used on current projects
  - Sioux City (I-29)
  - Council Bluffs (I-80/29)
  - Coralville (I-380)
  - Des Moines (I-235)

2. Program remainder of Interstate strategically

- 6” (Wider) Pavement Markings
- Long Life Marking Material
- Shadow stripe on the white skip line
- Grooved in Wet Weather Markings
- Durable Legends

3. Concurrently...DOT Maintenance can focus on non-Interstate

- Standard program 4” and 6”
- Apply safety strategies based on data driven approach
Audible Attenuator
Speed Feedback Signs
2021 Polk County Metro Area Construction

Iowa Department of Transportation
EB I-80 to SB US 65 ramp extension

- Safety project to minimize reoccurring congestion/backups on mainline I-80
- This location was identified in ICM Study (INRIX speed data graph, dips are slow downs)
- 1500’ extension of the EB I-80 to SB US 65 ramp
- Built to match the future EB I-80 cross section coming from the future build of the NEMM
The purpose of the proposed project is to provide adequate current and long-term roadway operation within the project area and to provide efficient and safe access to the interstate from the adjacent arterial street network.

The proposed project is needed to:
- Improve traffic operations within the project area.
- Improve traffic safety on local streets and the interstate corridor within the project area.
I-35/80 NB/EB Bridge Widening Des Moines River (April – October)
US 69 (NE 14th St) Four Lane Grade and Pave From I-35/80 to Ankeny (April 2021 – November 2022)
I-35 (NB & SB) Mill and Asphalt Overlay from NE Mix Master to 1st Street in Ankeny.
US 6 (Merle Hay Rd) Mill and Asphalt Overlay from Hickman Rd. to Madison Ave. (March Letting)
US 6 (Douglas Ave.) HMA Mill and Overlay from Merle Hay Rd. to MLK Jr. Blvd. (March Letting)
Ia 28 (Merle Hay Rd) Patching from Madison Ave. to I-35/80 (December Letting)
US 69 (E 14th St.) Mill and Asphalt Overlay from E. Flemming Ave. to I-35/80 (March Letting)
US 6 (Hickman Rd.) and 128th St. Grade and Pave Intersection Improvements (March Letting)
Ia 5 NB/WB over Middle River Bridge Deck Overlay (November Letting)
NEMM Reconstruction (July 2022 Letting)
Questions?

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GENERAL DISCUSSIONS
General Discussion Topics

• Community Updates
  – News, projects, events, constructions, incidents, etc.
    • Des Moines Area Regional ITS Architecture Update – ITS Inventory Phase

• Next Meeting
Des Moines Area Regional ITS Architecture Update

- Updates to the ITS Architecture include
  - Stakeholders
    - Needs
    - Roles and Responsibilities
  - ITS inventory and ITS services
  - Interconnects and information flows among agencies
  - ITS standards
  - Institutional agreements

- First phase, ITS Inventory Survey

Des Moines Area Regional ITS Architecture Update

• Goal of ITS Inventory Survey
  – Identity the generic categories of existing ITS objects

• Next Step
  – ITS Services Survey
    • Identity ITS services that are provided by the ITS elements/physical objects
2020 TMAC Topics

**Best Practices**
- Emergency Vehicles Warning Best Practices
- Distracted Driving and Countermeasures
- Develop a Metro-wide Training Handout (Services Book) on Available Training to Provide to Metro Departments

**Construction**
- Construction within the MPO Area and Continued Construction Updates
- Workzone Safety Initiatives
- Information on Planned Safety Improvements on Major Roadways

**Incident Response and Management**
- Quick Clearance
- Better Local Agency Access to Traffic Cameras
- Sharing Resources for Incidents
- Lane Closure Management Across the Metro

**Infrastructure and Technology**
- Outdated Infrastructure
- Connected Vehicles
- FirstNet

**Towing**
- Towing Company Safety
- Towing Recovery Incentive Program (TRIP)
- Information and Sharing with Towing Companies
Next Meeting

Wednesday November 4, 2020
10 AM
Zoom

Last topic for 2020!
Infrastructure and Technology