CRAB Systemic Safety Project Selection Tool

December 18th, 2014 SSPST Workgroup Meeting Notes

To: SSPST Workgroup
From: Eric Hagenlock
Subject: Review of December 18th, 2014 SSPS Workgroup Meeting
Date: December 19th, 2014

Agenda

1. Introductions

   In Attendance:

   Matt Griswold, Cathy Udenberg, Chris Andrews, Scott Ackerman, Don Petersen, Grant DeJongh, Don Dovey, Henry Perin, Mike Kroll, Mathew Enders, Loretta Swanson, Vijay Kulkarni, Barry Greene, Scott Davis, Bob Davis, Steve Hillesland, Kathy O'Shea, Don Zimmer, Walt Olsen, Derek Pohle, Eric Hagenlock

2. Project Overview and Status

   Project Overview:
   - Add additional data elements to Mobility© for the purpose of identifying candidate locations for collision countermeasures.
   - Develop a Mobility© module to analyze data and develop a safety project list

   Project Status:
   - Workgroup formed
   - Workgroup suggestions for additional data elements received
   - Candidate for project software developer identified with an anticipated start date of January 5th, 2015

3. Additional Data Elements Review

   Horizontal Curves (new inventory):
   - Road Number – 5 digit integer
   - From Milepost (PC) – decimal(6,3)
   - To Milepost (PT) – decimal(6,3)
   - Radius (ft) – integer
   - Degree of Radius - integer
   - Length of Approach Tangent (ft) – decimal(4,1)
   - Grade of Approach Tangent (%) – decimal(4,1)
   - Superelevation (%) – decimal(4,1)
   - Recommended Speed (mph) – integer
   - Visual Trap – Yes/No

Additional Horizontal Curve Features:

- Link curves together
- Assign Signs to Curve
- Show approaches and Intersection on curve

Intersections (Existing Inventory – Enhance Reference Points):

- Has Skew – Yes/No
- Skew Angle (degrees) – integer
- Number of Legs – integer
- Intersection offset – Left/Right
- Offset Distance (ft) – integer
- Pavement/Curb radii – integer
- Sight Distance State – user defined options
- Sight Distance (ft) – integer

Additional Intersection Features:

- Automatically show within or near vertical curve/grades
- Automatically show if on horizontal curve
- Calculate distance from next intersection(s)

Clear Zone Segment (new inventory):

- Road Number – 5 digit integer
- From Milepost – decimal(6,3)
- To Milepost – decimal(6,3)
- State of Clear Zone – user defined options
- Back Slope (%) – decimal(4,1)

Clear Zone Object (new inventory):

- Road Number – 5 digit integer
- Milepost – decimal(6,3)
- Offset (ft) – integer
- Object Type – user defined options

Additional Clear Zone Features:

- Associate ROW inventory with clear zone

Vertical Curves (new inventory):

- Road Number – 5 digit integer
- From Milepost – decimal(6,3)
- To Milepost – decimal(6,3)
- Length of Curve – calculated (tomilepost-frommilepost)
- Entering Grade (%) – decimal(4,1)
- Exiting Grade (%) – decimal(4,1)
- Crest or Sag – Options: Crest/Sag
- Illumination (if sag) – Yes/No

- Stopping Sight Distance (ft) (if crest) – integer

Bus Stops (new inventory):

- Road Number – 5 digit integer
- Milepost – decimal(6,3)
- Site Distance – Yes/No
- Side of Road – Left/Right
- Bus Type – School/Transit

Miscellaneous:

- Review striping inventory to determine best fit for pavement marking information
- Label "Percentile" in traffic study results as "85th Percentile"
- Add "Automated Enforcement – Yes/No" field to traffic signals
- Determine best location for "land use type" information

4. Conclusion: Next Steps
    - Continue to refine additional data elements with workgroup via email
    - Hire project software developer
    - Begin modifying Mobility© for new fields and inventories
    - Reconvene workgroup around February/March to discuss data collection methods and sharing data between Mobility©, WINCAMS, CityView, GIS, Retroreflectometers, etc; Discuss features and workflow for SSPST module
    - Speak with TDGO about getting state jurisdiction collisions that intersect with county roads