NCITE Geometric Design Committee
06/21/2018 Meeting Minutes
8:30 AM – 10:30 AM

Location: HR Green, Inc.
2550 University Avenue W., Suite 400N
St. Paul, MN 55114

Committee Chair:
Tom Jantscher, HR Green, Inc.
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Committee Co-Chair:
(vacant)

Meeting Agenda:
I. Introductions
II. Presentation. See meeting notes on next page.
   a. MnDOT's Congestion Management Safety Plan, By: Paul Morris, SRF Consulting Group, Inc., and team
III. Brief items regarding Co-Chair opportunity and need for upcoming meeting topics
IV. Next Meeting: Thurs., August 30, 8:30 am – 10:00 am, Jim Rosenow, MnDOT Flexibility Design Engineer, AASHTO Green Book 7th Ed. updates
Meeting notes:

- **Purpose of Congestion Management Safety Plan (CMSP):**
  - Dollars programmed for low-cost, high-benefit improvements, targeting high-priority problem locations

- **Currently in Phase 4 of CMSP:**
  - Phase 1 was in 2007 and was more of a study, involving 136 projects with 19 recommendations
  - Phase 2 was in 2009 and built on Phase 1
  - Phase 3 was in 2011 and built on Phase 2

- **Phase 4:**
  - Involved a review of Phases 1 – 3 (what worked well, where was the benefit less than anticipated/hoped)
  - Opportunity list was updated to include non-freeways
  - This is more “pre-scoping” to get additional detail and specify a purpose, before committing it to the program

- **CMSP process involves developing 1) problem statement, 2) screening, 3) developing project cost estimates, and 4) calculating a Return Period**

- Involved the following system performance measures: congestion, travel time reliability, and crash density (the inaccuracy of the reporting of incident location was accounted for)
  - Graphing congestion vs. reliability helped identify sites and trends

- **Primary screening involved the single congestion problem that propagates upstream and is responsible for an area/length of congestion**
  - Congestion, reliability, and cost information is converted to cost
  - Pool of 465 locations at a total of $913M
    - Includes locations where other studies and additional work is being done
  - Screened down to 68 locations, including all different facility types

- **Concept development involved Design Charrettes**
  - (Two sample Design Charrettes were done and discussed with mtg. attendees)
  - Charrettes resulted in 101 solutions for the 68 locations

- Each location was looked at in more detail to estimate project construction and delivery costs
  - Notable items include overhead signs, noise walls ($2.4M/wall average), subsurface items, and drainage features

- Each location had a Return Period calculated, then ranking them determined which projects to program funding for
  - Resulted in 52 locations with a desirable Return Period