Highway Design Manual Updates

A work in progress.
Introductions

• Rewrite committee
  – Bill Gulick, Brad Eldridge, Keith Caudill, Jonathan West, Jill Asher

• SME contributors
  – Travis Carrico, Paul Looney, Ron Matar, Shawn Russell, Jeff Lail, Kevin Martin, Jason Littleton, Bill Greene, Brent Sweger, Henry Wells
Rewrite Philosophy

• “Stay in our lane.”

• Allows flexibility in design, not too prescriptive

• Should reflect how we do things today...well, mostly. See next slide.
Noteworthy Changes

• Project Development Manager (PDM) decision-making
• Location engineer approval
• Does not abandon the project development team (PDT) process or importance of their input
• If an agreement cannot be reached by the PDM and location engineer, the decision can be made at a higher level
Noteworthy Changes (cont.)

• Requires at least one alternative at PL&G to fit into the Highway Plan budget.
• All pertinent Highway Design Memos released since the last manual update should be included as part of this manual.
• The electronic version of this manual will include links to other websites and forms when referenced.
Noteworthy Changes (cont.)

- Consultant Administration broken out as independent section (HD-205)
- Maintenance of Traffic (MOT) broken out as independent section (HD-206)
- Inclusion of pedestrian considerations in MOT section
Noteworthy Changes (cont.)

• DES tiered approval process
  – All projects need to be reviewed and signed by the project engineer and project manager
  – The DES can be submitted electronically with digital or typed signatures.
DES Tiered Approval Process

Tier 1 requires location engineer signature

- < CE Lvl III
- Local or Collector (non NHS)
- ADT ≤ 1500
- No Design Exceptions
- Cost Est. ≤ 115% of Hwy Plan Budget

OR

- <CE Lvl III
- Current ADT ≤ 400
- Cost Est. ≤ 115% of Hwy Plan Budget
DES Tiered Approval Process

**Tier 2** requires location engineer and TEBM of Roadway Branch signature

- < CE Lvl III
- Local or Collector (non NHS)
- Design Year ADT > 1500
- No Design Exceptions
- Cost Est. < 115% of Hwy Plan Budget
DES Tiered Approval Process

**Tier 3** requires location engineer, TEBM of Roadway Branch, and Director of Highway Design signature

- All projects not meeting Tier 1 or 2 parameters.
- On full FHWA oversight projects the DES shall be provided to FHWA for their review and approval.
Rewrite/Review Process

- Assignment of Sections
- HDM review
- KTC review
- Districts, Divisions & ACEC Design Committee Review
- Sections released as a Highway Design Memo
- Manual rewrite released
Future manual updates

- **Revisions** to manual in the future will occur every two years and will include changes made by Highway Design Memos during that period.

- **Rewrites** to the manual will occur when there is a change in philosophy.
Status Update

• Chapter 100 – General Information is ready to send to other Divisions, Districts and the ACEC Design Committee

• Chapter 200 Administrative Procedures, Sections 201-205 is ready to send to other Divisions, Districts and the ACEC Design Committee
Status Update (cont.)

- Chapter 200 – Administrative Procedures, Sections 206-210 edited by SMEs, ready for HDM committee to review
Schedule

Our intent is to:

• Distribute HD 100 – 300 (General Info, Administrative Procedures, & Surveying) to ACEC Design Committee, Districts, and other Divisions for comments by October with a 3 week review period

• Received comments by November

• Address comments, edit and release HD 100 – 300 by the beginning of 2015
Questions?