# PROJECT REVIEWS, FINAL FILE REVIEW, TSC REVIEW

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#### 80/20 - 20/80 Rule

- 20% of projects take 80% of the time
- 80% time = Tension,\$\$\$\$, Fed \$ risk





## Design – Find Problems, Save \$

- (Sub)urban projects
  - ADA & tie-ins, cross slopes and crown points

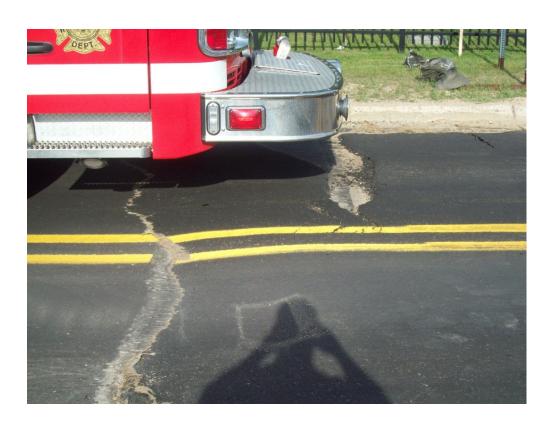






## Design – Find Problems, Save \$

- Consider borings, storm sewer cleanout and video
- Utilities





## Design – Stream Crossings

Geotechnical Issues





## Design – Stream Crossings

Details







# Design – Stream Crossings

Environmental







#### Consider:

- Technical qualifications proposal plus cost?
- Field review during design
- Schedule
- Lets talk

### Construction: Stuff Happens

All that can, will go wrong (for me).







## Inspection

- Good Inspector = Better Job
- Don't be taken advantage of by a contractor.
- Make sure the inspector knows what they are doing.





#### **HMA**

- On site documentation with a qualified inspector is a must.
- Preproduction meeting and QC/QA is critical





## HMA (continued)

- HMA is unforgiving. Overrun = \$\$\$\$.
- Everyone sees it.







#### Concrete

A prepour meeting, QC/QA and following various IMs,
 CAs as well as the specs are critical.







#### Geotechnical

 The checklists/forms help ensure what you are getting as well as documenting work.







## Pavement Markings







#### Force Accounts

Use and document spec materials.







#### Final Record Reviews

- E-signatures
- Lists of commonly missed items are available.
- The closeout process.(IM 2011-04)
- Project Closeout (IM 2013-08)