



**ENGINEERING OPERATIONS COMMITTEE
MEETING MINUTES
NOVEMBER 1, 2007 – 9:00 A.M.
MULTI-MODAL CONFERENCE ROOM**

Present: L. Tibbits J. Friend J. Polasek
B. O'Brien M. Van Port Fleet J. D. Culp
T. Anderson C. Roberts T. Fudaly
E. Burns

Absent: J. W. Reincke C. Bleech

Guests: T. Palmer G. Mayes (for J. Reincke)

OLD BUSINESS

1. Approval of the October 11, 2007, Meeting Minutes – L. Tibbits

The October 11, 2007, meeting minutes are approved.

2. Michigan Roundabout Guide (See July 12, 2007, Meeting Minutes, Old Business, Item 2) – T. Palmer

A Roundabout Committee was formed to develop a guidance document intended to educate staff on the basic elements of roundabout planning, design and operations. The draft document was presented to the EOC in July 2007 for approval. The document was approved in concept, with minor revisions and reformatting. The document has been revised and is being resubmitted for approval.

Subsequent review of the document has resulted in discussions of factors outside of vehicular traffic that may affect the efficient operations of a roundabout. Pedestrian traffic must be considered fully in the decision of selecting a roundabout as an intersection option. High volumes of pedestrian traffic or special pedestrian traffic needs, such as providing access for persons requiring accommodations, may require mitigation that negates the positive impacts to vehicular mobility usually seen from roundabout operations. As a result, additional requirements for roundabout approval will be necessary when pedestrian traffic is identified as a factor in the engineering study of an intersection. Whenever one or more of the following criteria have been identified, EOC approval of a roundabout for compliance with ADA requirements is required.

- Whenever pedestrian access is present.
- Major changes in pedestrian traffic are expected. These changes may be the result of known future development that will generate significant volumes of pedestrian traffic, such as schools, shopping centers, or residential developments.

ACTION: Approve the Michigan Roundabout Guide, with minor revisions to incorporate the changes noted above.

NEW BUSINESS

1. Pavement Demonstration Candidate Project: Proposed Thin PCC Overlay on an Existing Composite Pavement, M-1 – CS 82131, JN 79673 – C. Bleech

This item is postponed until the next meeting.

2. Pavement Selection – I-196 Rehabilitation: CS 03033, JN 75215 – B. Krom

The reconstruction alternates considered were a hot mix asphalt pavement (HMA) over rubblized concrete (Alternate 1 – equivalent uniform annual cost [EUAC] \$57,120/directional mile) and a separated jointed plain concrete pavement overlay (Alternate 2 - EUAC \$40,837/directional mile). A life cycle cost analysis was performed and Alternate 2 was approved based on having the lowest EUAC. The pavement design and cost analysis are as follows:

6"Jointed Plain Concrete Pavement w/12' joint spacing (mainline & shoulders)
2"HMA Separator (mainline & shoulders)
9.4"Repaired Existing JRCP Existing Base & Subbase Underdrain System
8"Total Thickness

Present Value Initial Construction Cost.....	\$494,350/directional mile
Present Value Initial User Cost.....	\$97,564/directional mile
Present Value Maintenance Cost	\$37,595/directional mile
Equivalent Uniform Annual Cost	\$40,595/directional mile

(Signed Copy on File at C&T)

Brenda J. O'Brien, Secretary
Engineering Operations Committee

BJO:kar

- | | | | |
|-----|-------------------------|--------------------|------------------------|
| cc: | K. Steudle | S. Mortel | J. Steele (FHWA) |
| | J. Shinn | D. Jackson | R. Brenke (ACEC) |
| | L. Hank | W. Tansil | G. Bukoski (MITA) |
| | EOC Members | D. Wresinski | D. DeGraaf (MCPA) |
| | Region Engineers | C. Libiran | D. Hollingsworth (MCA) |
| | TSC Managers | R. J. Lippert, Jr. | J. Becsey (APAM) |
| | Assoc. Region Engineers | T. L. Nelson | M. Newman (MAA) |
| | T. Kratofil | T. Phillips | J. Murner (MRPA) |
| | M. DeLong | K. Peters | G. Naeyaert (ATSSA) |
| | B. Shreck | J. Ingle | C&T Staff |