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JUL 11 2012

MEMORANDUM

CASS COUNTY COMMISSION

**Highway
Department**

Jason Benson, P.E.
County Engineer

Richard S. Sieg
Superintendent

Thomas B. Soucy, P.E.
Design and Construction
Engineer

TO: Cass County Road Advisory Committee
FROM: Jason Benson, Cass County Engineer *JBB*
DATE: July 11, 2012
SUBJECT: Road Advisory Committee Meeting
July 16, 2012 2:00 p.m.

A Road Advisory Committee meeting has been scheduled for Monday, July 16, 2012 at 2:00 pm in the Cass County Commission Room. The agenda is as follows:

2:00 – 2:15	Review 2013 Construction Projects	Information
2:15 – 2:25	Update on Posted Bridges on County Highways	Information
2:25 – 2:45	Review of the Cass County Comprehensive Highway Plan	Information/Action
2:45 – 3:00	Other Business	
3:00	Adjourn	

J: Admin-Eng Road Advisory Committee 2012 Road Advisory Agenda July 16, 2012.doc

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MEMORANDUM

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Design and Construction
Engineer

TO: Cass County Road Advisory Committee
FROM: Jason Benson, County Engineer *JJB*
DATE: July 10, 2012
SUBJECT: 2013-2017 Comprehensive Highway Plan

The County Highway Department annually schedules next year's construction projects during the budget process. Although this process offers a great deal of flexibility in scheduling it can lead to some inefficiency in the planning process. In an effort to increase efficiency and maintain a high level of transparency a Cass County Comprehensive Highway Plan has been developed.

The Plan acts as a document that more efficiently displays our data and serves as a 5 year Capital Improvement Plan (CIP). The plan is anticipated to be revisited annually. Included in the plan is a discussion of land use, highway safety, maintenance, and construction. A large amount of data is used for preparing the plan, but rather than displaying this data, maps are used to display what is most pertinent in an effort to make the plan more user-friendly and easier to update.

The Plan was presented in draft form to the Road Advisory Group Committee in March and to the Cass County Planning Commission on June 28, 2012. Cass County Planning Commission has made a motion to formally recommend approval of the Cass County Comprehensive Highway Plan to the Commission.

I am recommending that the Cass County Road Advisory Committee approve the 2013-2017 Comprehensive Highway Plan to the Cass County Board of Commissioners for formal adoption.

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TO: Cass County Road Advisory Committee
FROM: Jason Benson, Cass County Engineer *JRB*
DATE: July 11, 2012
SUBJECT: Road Advisory Committee Meeting, July 16, 2012
Background Information

2013 Proposed Highway and Bridge Projects:

Bituminous Surfacing Projects:

Cass 4 from Cass 11 to Cass 81. (5.5 miles, \$3, 710,000. All local funding.)
This Section of Cass 4 is currently being widened and reshaped for next year's Bituminous Surfacing project. The proposed 36' paved road surface includes 6' paved shoulders.

Grading and Surfacing Projects:

Cass 15 in Kindred from Dakota St to Sheyenne St. (0.5 miles, \$1.8 Million)
This section of Cass 15 was last paved in 1999 and is in need of regrading and pavement repair. Planned construction includes grading, drainage improvements and surfacing.

Subgrade Repair and Reshaping Projects:

Cass 10 from Buffalo to Cass 5. (8 miles, \$1,200,000. All local funding.)
This will be used to repair and reinforce the subgrade of the road.

Cass 10 from Buffalo to Cass 5. (8 Miles, \$100,000. All local funding.)
Sections of this road will be targeted for reshaping.

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Bridge Projects:

10/11 Pleasant – Township Road on Wild Rice River. This is a township bridge with a Code 3 alert, with settling of the south abutment. The existing bridge is 152' long and a new deck and piers were placed in 1987. The rating is 69.2. Estimated cost to repair the south abutment is \$75,000.00.

15/22 Gunkel – Cass 34 on Elm River. This is a county timber box culvert. It is posted for 23 tons and has a rating of 68.5. This culvert was built in 1953. A hydraulic analysis has been completed with a recommended 2 lines of 12 feet x 5 feet Box Culvert. Estimated cost is \$400,000.

5 Reed/32 Harwood – Township Road on Rush River. This is a township bridge with settling and movement of the abutments and has a Code 3 alert. It was built in 1946 and is 31' long with a rating of 52. Estimated cost is \$350,000.

25 Everest/30 Durbin – Township Road on Buffalo Creek. This is a township bridge with a damaged Quad tee beam. It is 48' long with a rating of 96.7 and built in 1976. Estimated cost to remove and replace Quad tee beam is \$150,000.

10 Durbin – Township Bridge on Maple River. This is a township bridge with a Code 3 alert, with a posted limit of 8 tons and a rating of 39. The total length is 149 feet. Replacing the north 30 foot span would remove the Code 3 alert. Estimated cost is \$75,000.00

Future Projects – Pending Funding:

15/16 Hill – Township Bridge on tributary of Maple River. This is a township bridge with a Code 3 alert and is closed to traffic. The existing bridge is 23' long with a rating of 37.0 and was built in 1950. Replace with low water crossing. Estimated cost is \$150,000.

35 Cornell/3 Tower – Cass 32 on Drain 56. This is a county bridge with a posted limit of 31 tons, with a rating of 53.3 and was built in 1955. The length is 24 feet. Estimated cost is \$250,000 (\$150,000 Water Resource District and \$100,000 Cass County funding).

12 Gill/7 Everest – Township Road on branch of Maple River. This is a township bridge with damaged piling at the south abutment. It is 21 feet long and was built in 1955. Estimated cost is \$150,000.

8/9 Mapleton – Cass 15 on Drain 14. This is a county bridge built in 1946 with a rating of 84.5. It is 42 feet long. During major floods it has been closed due to high water. Estimated cost is \$500,000 (\$300,000 Water Resource District and \$200,000 Cass County funding).

28/33 Empire – Township Bridge on Swan Creek. This is a township bridge with a Code 3 alert, and a 40.0 rating. It was built in 1950 and is 24 feet long. Estimated cost is \$300,000.

31/32 Highland – Township Bridge on Maple River. This is a township bridge with a Code 3 alert and a rating of 38.0 and is closed to traffic. The existing bridge was built in 1955 and is 32 feet long. Replace with low water crossing. Estimated cost is \$150,000.