

MINUTES

MEO Pre-Meeting

October 11, 2007

St. Cloud, MN

9:00 – 12:00

- Vice Chair
 - Elected tomorrow (10/12) from outstate Materials Engineers
- Lab Supervisor Update
 - D3: Retirement in July '07 – temporarily filled by Soils Engineer; expect to fill with E.S. by Spring '08
 - D8: Filled with E.S.
 - D7: Retirement in January '08; anticipate filling with a combination of Soils and Lab responsibilities
- Whitetopping
 - D1: Planning a whitetopping project 5½" thick – research project – FY '09
 - D3: Considering on TH 10 but traffic control is big issue
- Alternate Bids
 - D8 project on TH 23 for '09
 - D8 considering alternate bid for shoulders for mainline concrete paving
 - D1 considering alternate bid process for TH 53
- Uniformity Letter
 - Existing memo dated Sept. 13, 2000
 - Purpose was to encourage communication between Construction and Materials
 - *Action: Curt T. to bring to CMG with District materials Engineer recommendation to re-issue*
- OIM/HPMA
 - Concern that OIM is relying on HPMA to produce the program
 - Dave J. provides data with district input
 - HPMA is a network level system
- Luke's Preventative Maintenance Evaluation of PPMS Data
 - More control sections are needed to fully understand results of spec changes on results
 - Limited data for some sections
- MEO Out of State Trip
 - Ben T. for '08
 - Perry C. for '09
- Railroad Crossings
 - Tony K. had conversation with railroad rep concerning roadway approaches to crossing
 - Railroad suggesting salt & sand contaminating ballast
 - Railroad suggests concrete approach panels
 - *Action: Initiate a committee to study crossing designs*

- New Scoping Process
 - Districts working to implement process
 - Ongoing concern about decisions made early with little data
- Metro Preservation Spending
 - Metro costs/mile are higher
 - Should HMA reflect costs on urban vs rural?
 - *Action: Dave J. will look at cost differences*
- Lottman and AFT Bituminous Tests
 - Graig survey of bituminous projects (handout)
 - No relationship between Lottman failures and AFT
 - Continue to do TSR because it is part of the super pave protocol
 - Penalties are not assessed on TSR due to precision of test
- Bituminous Mix Design
 - Option 1: Mix in Lab
 - Option 2: “paper” mix design with performance on early mix production
 - May eventually eliminate Option 1

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MEO Full Meeting

October 11, 2007

- Grading and Base
 - Intelligent Compaction
 - Experience with Const '07
 - Implementation Plan
 - Updates by Joe Thomas
 - Lightweight Deflectometer (LWD)
 - Zorn preferred brand
 - CNA developing standard software
 - Nov. 14 seminar on LWD
 - Changes in 3138 Spec (handout)
 - Reminder of need for runoff assessment for state-owned pits
- Russian Exchange Trip [Roger Olson]
 - Russia recently purchased reclaiming machine
 - Group observed bituminous roadways
- Concrete Issues [Doug Schwartz]
 - Boilerplate on concrete slump
 - Maturity meters used on several projects in '07
 - High performance curb & gutter used on several projects in '07
 - Bridge deck cracking is an issue
 - Concern with joint layout in roundabout projects
 - Device available [experimentally] to locate dowel bars vertically & horizontally

- Lab [Terry Beaudry]
 - Handout on 2006 test count and cost by test & district
- Geotechnical [Glenn Engstrom]
 - Several new tools available for geotechnical investigations
 - Need for an “investigation” plan for each project utilizing Maplewood and District tools
 - Committee to look at process
 - Need uniform boring database – look at Iowa process
 - Soils Engineers should develop
- Geofoam Case History [Tony]
 - Geofoam used on unstable embankment in D3
 - Failure after paving – used geotextiles
- Bituminous Issues [John G.]
 - Handout on spec for Asphalt Stabilized Stress Relief Course (PASSRC) or Permeable Asphalt Stabilized Base (PASB)
 - Handout on Bituminous Aggregate quality issues
- Pavement Management [Dave J.]
 - Research
 - Presentation of GPR [Shongtao Dai]
 - Concrete grinding at Mn/RD
 - Flyash stabilized FDR
 - Acid modified asphalt
 - Reconstruction at Mn/RD planned for ‘08
 - Concrete maturity meter study [Andy Eller]
 - Fractionated RAP
 - Breaking RAP into various fractions and re-combining for uniformity
- Lab Issues [Terry B.]
 - Talk to Terry if you want copies of tests submitted by construction and run in Maplewood Lab
 - Scientific Equipment budget has been cut
 - Electronic signature issues with new LIMS
- Materials Office [Keith Shannon]
 - Budgets have been reduced
 - State Auditor investigation
 - Request for pavement management data
 - Life cycle cost analysis (LCCA)
 - Legislation has not passed
 - Need for policy/guidance for application
 - Industry input
 - Concern about LCCA and pavement management models
 - LCCA results vs performance measures ; i.e., can’t always do “right” fix with limited dollars

- Pavement Engineering
 - Joe Thomas back to Bituminous Section
 - Non-destructive testing
 - Budget/personnel problems
 - Use of consultant
- Committee Reports
 - LCCA Tech Memo – active
 - Drainage – need to update Spec
 - Reclamation – complete
 - Construction Streamlining – ongoing
 - Retention Schedule – done but recent events have changed requirements
 - Auger Use – done and reported to CMG – more questions
 - Bituminous Full Depth (BFD) – ongoing
 - Activity Code – ongoing – need to test results
 - Full Depth Reclamation (FDR) – ongoing – draft spec available
 - Railroad Crossing – new with Tony K., chair
 - Life Cycle Cost Analysis (LCCA) – new with Jerry Gieb, chair
- Liaisons
 - Lab Chiefs – meeting end of October
 - Resident Engineers – Jim Labo
 - Interest in new testing process
 - CMG – Craig Collision – no issues
 - Soils Engineers – Dave Palmquist
 - Interest/need to implement Ground Penetrating Radar (GPR)
- Round Robin
 - Jerry Geib
 - Good performance with ultra thin wearing course product
 - Handed out “emulsion calculator”
 - Winter load increases
 - Mn/PAVE – working on updates
 - Would like invitation to review pavements in districts
 - Dave VanDuesen
 - What is history of “Strata” use
 - Terry Beaudry
 - AMRL provides interesting trends between districts
 - Roger Olsen
 - Handout on longitudinal joint repair on I-494
 - Keith Shannon
 - TH 36 reconstruction open house rescheduled for 11/1/07
 - Election results
 - John Garrity – Chair ‘08
 - Perry Collins – Vice Chair ‘08
 - Check out the MEO website