

2010 Composite Pavement Construction at MnROAD
Engineer's Weekly Report
April 12 - 16, 2010
Mark Watson, MnDOT

This is the initial construction project update for SP 8680-159 (Composite Pavement) located on I-94 at the Minnesota Road Research Facility (MnROAD) in Albertville, MN. This project involves the construction of three new composite pavement cells as part of the SHRP 2-R21 research project headed by Mike Darter of Applied Research Associates, inc. The construction project was awarded to CS McCrossan, Inc. (CSM) of Maple Grove, MN for the amount of \$682,684.50. Roy Roseland is the project supervisor for CSM and Stewart Krummen is the project manager. The official start date was Monday April 12, 2010.

WSB and Associates (WSB), inc. will be responsible for the administration of the construction contract and the inspections. Mike Rief is the Project Supervisor and Bryon Amo is the Chief Inspector. WSB subcontracted the survey work out to EVS, Michael Williams is the lead surveyor. I will act as a liaison between the research team and the WSB administration staff throughout the duration of the project. It is imperative that the proper channels of communication are followed to ensure that WSB can properly administer the contract.

A pre-construction meeting was held April 7, 2010 at WSB's office in Golden Valley, MN. Representatives from Mn/DOT, CSM and Aggregate Industries (AI, subcontracted by CSM for PCC mix design) were in attendance. Additional CSM subcontractors include: Antigo Construction (Pavement Breaking), Superior Sawing and Sealing (concrete sawing and coring) and Neaton Bros. (turf establishment). Weekly schedule and quality meetings will be held Mondays at 10:00 am in the MnROAD conference room. This project has been declared a hard hat project, meaning that hard hats and vests are required at all times while personnel are outside their vehicles on the project.

During the week of April 5 – 9, MnROAD staff completed forensic activities on the Mainline concrete cells prior to their salvage/removal. These activities included coring along longitudinal and transverse joints to investigate their condition, coring out sensors to determine their position and orientation, and removal of slabs to examine the condition underneath the joint.

The initial weekly construction meeting was held Monday morning at MnROAD. Items discussed included the planned schedule for the week, erosion control measures, and material supply and specification issues. CSM intends to work 8 – 10 hour days, 5 days per week.

Summary of Research and Construction Activities Completed during week of April 12 - 16

Monday

Top soil was stripped (1 day). Top soil berm will act as erosion control

Tuesday

Bituminous shoulders were milled (½ day), and the RAP was hauled back to CSM for their use.

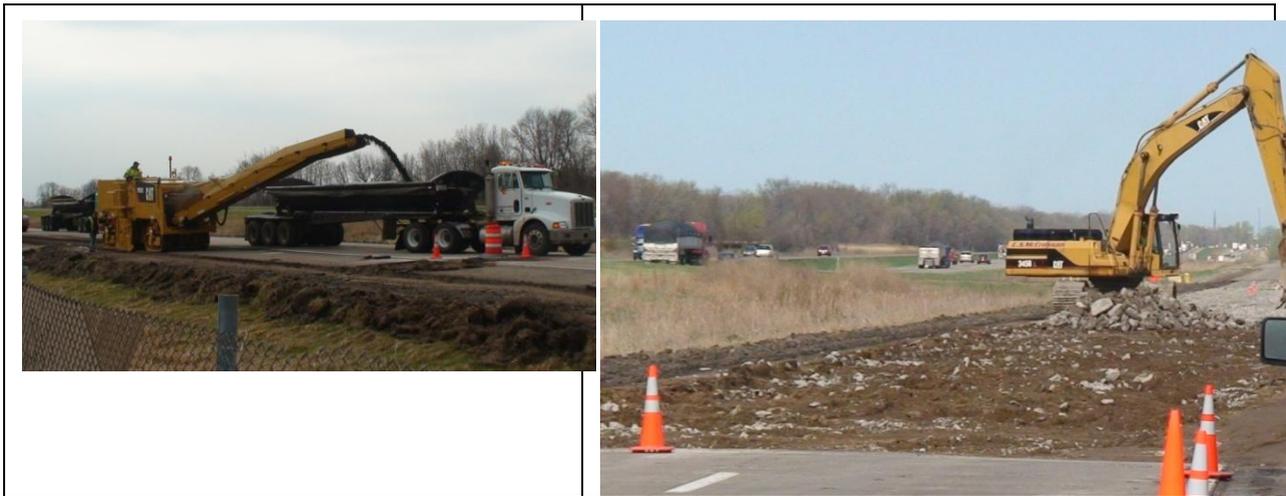
Wednesday

PCC Pavement was broken using a guillotine hammer (½ day).

Thursday & Friday

PCC pavement removed (2 days) and hauled back to crusher at CSM in Maple Grove.





Summary of Anticipated Research and Construction Activities for the week of April 19 - 23

Monday

Construction: Mobilize for subgrade work (set string and trim).

Research:

Tuesday

Construction: Trim and compact subgrade.

Research:

Wednesday

Construction:

Research: LWD, FWD & DCP tests on subgrade, sensor conduit installations

Thursday

Construction: Crush PCC for RCA, Construct Aggregate Base

Research: sensor conduit installations

Friday

Construction: Trim aggregate base

Research:

If you have any questions, feel free to contact me. I look forward to an exciting and successful project.

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Attachments: 1. Revised Schedule

CC: SHRP 2 Research, Mn/DOT Materials and Road Research, File