

2010 Composite Pavement Construction at MnROAD
Engineer's Weekly Report
Week of April 26 - 30, 2010
Mark Watson, MnDOT

The third weekly construction meeting was held Monday morning at MnROAD, items discussed included: the planned schedule for the week, the upcoming demo slab construction (3" width difference between upper and lower layers, MBT Reveal application and brushing, placement of surface sensors), materials testing (recycled concrete aggregate), paperwork for the concrete header was signed, and safety items (hard hats, vests, safety glasses and location of research personnel in relation to contractor).

Summary of Research and Construction Activities Completed during week of April 26 - 30

Monday, April 26

Recycled concrete was washed and sampled. Trimming of aggregate base of the mainline cells started at 3:00.

Tuesday, April 27

Continued trimming aggregate base on the mainline. Set up paving train for demo slab

Wednesday, April 28

The Demo Slab was constructed in the stockpile area. The 200 foot slab consisted of 100 feet of recycled concrete mix plus 100 feet of the low cost mix, all covered by a high quality exposed aggregate upper lift. There were major issues present with the workability and consistency of the recycled mix, these problems hampered delivery of subsequent loads, which dramatically increased delivery time of the upper layer (undoubtedly affecting the bond between the two layers). The contractor experimented with a wetter mix for the low cost, and sent two truckloads away for being too wet, near the end of the slab, the low cost mix appeared to be performing better and the delivery issues appeared to be resolved. The exposed aggregate mix appeared to have the proper qualities for placement and finishing.





Thursday, April 29 and Friday, April 30

MnROAD operations continued work on laying out locations and preparing the aggregate base for sensor installation.

Next week, cells 70 and 71 will be paved on Wednesday, May 5 and cell 72 will be paved on Thursday May 6, assuming no weather or equipment related delays.

If you have any questions, please feel free to contact me.

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