



ARRA Seminar with Live Demonstration - Dickinson ND



Asphalt Recycling and Reclaiming Association (ARRA) Seminar Dickinson, ND

On June 27-28, 2017, approximately 80 people, from surrounding North Dakota counties and five States, attended the Asphalt Recycling and Reclaiming Association (ARRA) seminar and live demonstration in Dickinson, ND to learn about the reclaiming and recycling of asphalt (paved) surfaced roads.

Stark County and the City of Dickinson hosted the event, and provided the road that was reworked during the project demonstration. Sponsors included Rock Solid Stabilization, Roadtec, Wirtgen Group, Braun Intertec, Midstate Reclamation, Caterpillar, Road Recyclers, Ash Groove, Lafarge, GCC, CAT, RDO and Kadrmas Lee and Jackson. The sponsors provided safety vests for the live demo, food and refreshments for the seminar.

The presentations provided information on the latest in survey, design capabilities of

droves (UAV) and other GPS and equipment machine control devices to the different opportunities of reclaiming and recycling existing road surfaces. The seminar included one day of class room presentations from city, county and US Fish and Wildlife leaders, construction contractors, equipment suppliers, and consultant engineers. The presentations included successes and failures that have been experienced in the reclamation of road surfacing. These methods included the construction procedures of adding and mixing materials to make the surface material better and last longer without bringing in new asphalt. The additives being used are cement, emulsions, fly ash, and other components to strengthen the subgrade and surface materials.



The second day was a live demonstration of four different methods of recycling the existing asphalt surface to provide a new and stronger surface to the existing road without the need to bring in any additional surfacing materials such as aggregate, or asphalt mix. The technical side of the project was supplied by Braun Intertec, which worked out the component percentages to be added as the material was ripped up and mixed with the new additives. Rock Solid Stabilization provided the milling machines to mill up and mix in the additives needed for each of the project phases differing mix designs. Caterpillar supplied graders for the exercise and other needed equipment was supplied by Stark County.

The big take away was that a lot of new pavement has been constructed in western ND for the oil industry, and now is the time to start preventative maintenance, like crack sealing and chip sealing the first year or two of the new paving project, to extend the life of the road surface. Then when the pavement has worn out or meets its life expectancy, provided the subgrade has been constructed correctly, the recycling of the existing surface material with additives is going to be much cheaper to do than a full reconstruction of the road surface.

The seminar was well received and with this new technology, many thousands of dollars can be saved by recycling and reclaiming the existing road surface.

Seminar presentations will be available on-line at a later date.



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