

# NRRA Meeting Minutes

## GeoTech Team

### August 25, 2016

- Timeline to finish LT Needs Statements
  - Chair Meeting → talk cell needs as a group
    - Week of August 29<sup>th</sup> (doodle for Mon-Wed?)
  - Long Term Problem Statements
    - Teams continue to update as needed
    - September 2 - Chairs/Ben will add proposed cells to the statements
    - September 8 → Next team meetings
    - September 12 → Draft LT problem statements due
    - September 22 → Team meetings planned (work on non-LT needs)
  - Executive Committee
    - September 15 → Draft LT statements to the EC for review
    - September 22 → Reviews due back from the EC
    - September 27 → Executive Committee Meeting to Discuss
  - Team Updates to the LT Statements based on EC comments
    - September 30 → Summary of the EC thought on the LT need summarized and sent to the teams
    - October 6 → Teams meeting/Updates on LT needs
    - October 15 → Final LT Statements Due
  
- Reorder the LT priorities to
  - Use of Recycled Aggregates in Aggregate Base - Draft August 5th (WORD)
  - Larger Subbase Materials - Draft August 2nd (WORD)
  - New! Subgrade Stabilization - Draft August 25th (WORD)
  - Cost Effective Shoulder Alternatives - Draft August 5th (WORD)
- Develop cells around
  - Recycled Aggregates
    - Keeping in mind MnROAD cells done in 2008
    - Forensics done and being written up in 2016 (Not done)
  - Larger subbase Aggregates
  - Subgrade Stabilization will be a secondary study if used at all
  - Cells
    - Don't need cell -1
    - Focus on cells on the LVR (85-89, 27, 28) giving 2 sand 220' and 6 220/250' cells with clay.
    - Depending on the money and other needs cell 24 (sand subgrade) might be open for geotech ideas
  - Shelia (Illinois) provided comments attached on cell needs.
  
- Ben/Terry will have a phone call to discuss the cell/studies more next week.
- Attached is Sheila's Suggestions for cell utilization received after the meeting that should be taken into consideration when developing test sections to support geotech research needs.

## **Suggestions for Geotechnical Committee Research Projects Cell Utilization**

### Subgrade Stabilization

Cells 305-405 and 306-406: Also being used by Rigid Team for fiber reinforcing so this would be secondary to Rigid Teams research. 3 areas; 250' each. Propose that we stabilize 2 of the sections, 1 with fly ash, 1 with cement and leave the 3<sup>rd</sup> untreated for comparison.

### Recycled Base

Use Cell 1 for the recycled base comparison of full depth RAP and RCA bases over the clay subgrade. Then use Cell 89, also clay subgrade for full depth virgin aggregate base to compare to both the recycled bases and the large aggregate bases.

### Large Aggregate Base

Use Cells 85, 86 and 88 for the Large Aggregate Base Comparison, with Cell 89 as the control section. Any combination of 3 different materials could be incorporated here but 2 sections have sand subgrade and one has clay subgrade. Would suggest using the same full depth large aggregate base on both subgrade types and then using a combination of large aggregate base with thin overlay of virgin base over the other sand subgrade section.