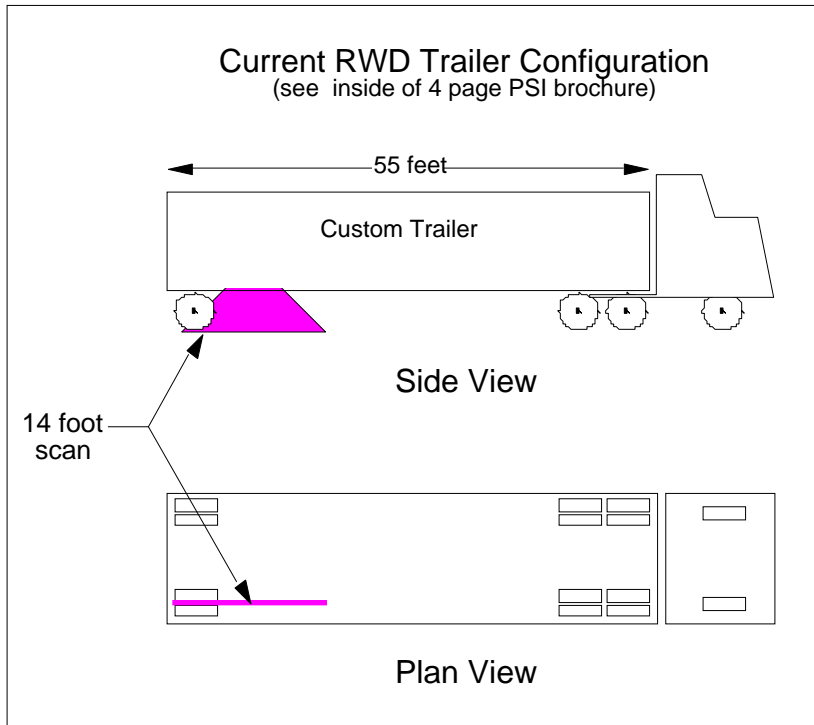


Pavement Joint Load Transfer Measurement Concepts
 Phoenix Scientific Inc.
 July 18,2000 (Revised September 22, 2000)

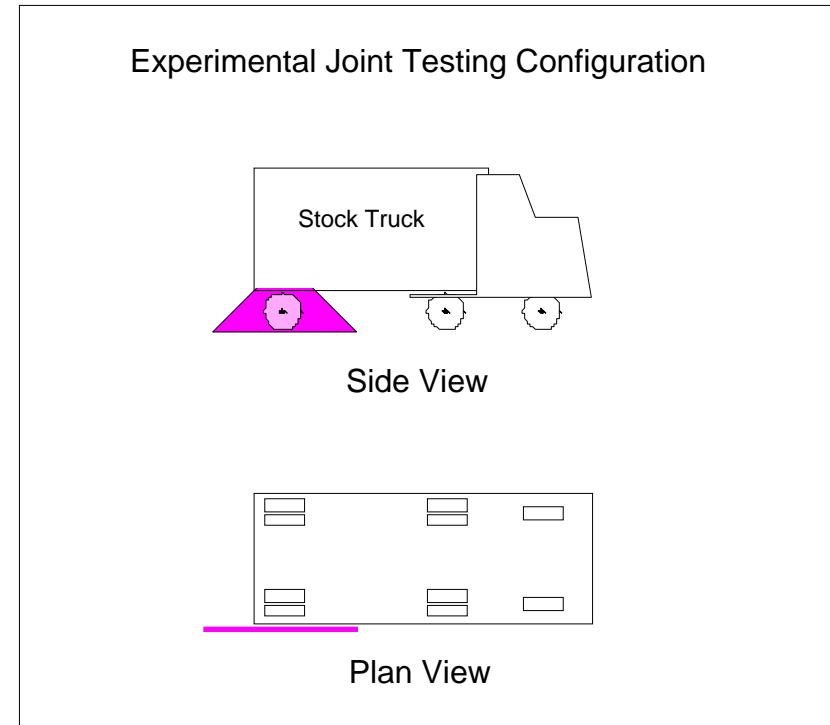


Pros

- Trailer Exists
- Large separation between tractor and trailer load axle

Cons

- Program is focused on RWD, not Joint Testing
- System is at US Army Corp WES in Vicksburg MS
- Scan can only cover 1 foot behind load axle, thus it would only see loadup



Pros

- Measure Loadup and Unload equally
- Use any available heavy truck that accepts side bracket
- Scanners are economically transported
- Scanners will be back at PSI in S. Calif later this year

Cons

- Less separation between front wheels and load axle

Credits and Clarifications

- Pavement Profile Scanners were developed by PSI for RWD under SBIR contract to USACE-WES
- Trailer was developed by ARA under SBIR contract for FHWA with cooperation of PSI and WES to furnish scanners
- All hardware is property of the Government, but can potentially be used in R&D that furthers technology