Texas Department of Transportation Johnny Miller, P.E. Traffic Materials Section Construction Division 125 E. 11th Street Austin, TX. 78701-2483

Dear Mr. Miller,

On Thursday, May 21st, 2009, SHUR-TITE® Products crash tested their Shur-Flex® Driveable Delineator Part # SD0033 (see attached video). They used 10 each, 48" tall, 70% recycled HDPE blend post with the Shur-Flex® insert and a 2" x 12 ga. X 24" galvanized steel square tubing anchor. They were installed per the attached manufacturer's recommendations. The temperature varied from 78-86 degrees during the crash. The posts took 20 hits in the same direction using a 1990 Oldsmobile Ciera SL with the speed between 50 and 55 MPH. The first 15 were bumper hits and the last 5 were tire hits. The bumper height on the car was 17". The posts survived all 20 hits and did not list in any direction more than 10 degrees. The reflectors used were 3M 3310 White and they survived all 20 hits with minor scarring.

I observed the crash test and certify that SHUR-TITE® Products met the requirements of DMS-4400 on their Shur-Flex® Driveable Delineator Part # SD0033.

Sincerely,

Charles W. Heald, P.E.



The seal appearing on this document was authorized by

Charles W. Heald, P.E. 24054