



**Highway Factors Attachment – Email from TxDOT to NTSB Investigators
dated April 21, 2022**

Andrews, TX

HWY22MH006

(3 pages)

Walsh Daniel

Subject: FW: Andrews, TX crash investigation

From: Chad Windham [REDACTED]
Sent: Thursday, April 21, 2022 10:10 AM
To: Walsh Daniel [REDACTED]
Cc: Kelli Williams [REDACTED]; Jose Renteria [REDACTED]
Subject: RE: Andrews, TX crash investigation

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Dan,

I have created a folder on the Kiteworks site titled "Crash reports" that includes the crash reports requested along with a Google Earth kmz file and Striping map showing the passing and no-passing zones 1 mile north and south of the crash.

I wasn't sure how to upload the other questions that you so here are our responses:

- Please give the justification for the location and lengths of no-passing zones, passing zones, and partial-passing zones in the bullet above.
 - The location and lengths of the no-passing, passing, and partial-passing zones appear to have been established in the set of construction plans (1718-04-004,etc.) that was constructed in 1988 and appear to be established due to vertical grade changes that effect the sight distance. The striping for the intersection at SH 115 were established with the construction project (0354-05-014) when the SH 115 overpass was constructed over FM 1788 in 2012.
- Please indicate the sections of FM 1788 that have raised profile markings and the sections that have depressed milled rumble strips. Does the Odessa District use any depressed milled rumble strips on state or interstate highways? Please provide justification why raised profile markings were selected for this section of FM 1788 near the crash site?
 - The section of FM 1788 from Gaines County line south to SH 115 has raised profile markings for both centerline and edgeline. The section of FM 1788 from SH 115 south to SH 176 has depressed milled rumble strips for both centerline and edgeline. Yes, the Odessa district uses depressed milled rumble strips on state and interstate highways. Milled rumble strips are preferred when adequate pavement depth is available. Adequate pavement depth is recommended of 2" or more. The section of FM 1788 from Gaines County line south to SH 115 does not have adequate pavement depth to support the milled rumble strips.

Hope this helps and let us know if you need any clarification or additional information.

Thanks,

Chad Windham, P.E.

Director of Operations – Odessa District

