

AGENDA ITEM 19

Discuss and consider approval of multi-way stop signs at O'Connor and Morgan Hill.

Joe England addressed the Court.

Moved: **Commissioner Hays**

Seconded: **Judge Doerfler**

Motion: To grant approval of multi-way stop signs at O'Connor and Morgan Hill.

Vote: **5 – 0**

< Attachment >

Joe M. England, P.E.
County Engineer

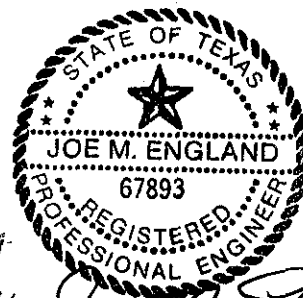


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Williamson County
Unified Road System

Memorandum

Date: April 8, 2004
From: Joe M. England, P.E.
To: Williamson County Commissioners Court
Subject: Proposed Multi-way Stop Signs on



approved 4-13-04
John C. Daugler

Joe M. England
4/8/04

According to the current edition of the Texas Manual on Uniform Traffic Control Devices, the following factors should form the basis of an engineering and traffic investigation for determining the proper installation of multi-way stop signs. The results of the investigation are shown in bold type after each section.

A. Where traffic control signals are justified, the multi-way stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the installation of the traffic control signal. **A traffic control signal is not warranted for this intersection.**

B. A crash problem, as indicated by 5 or more reported crashes in a 12-month period that are susceptible to correction by a multi-way stop installation. Such crashes include right- and left-turn collisions as well as right-angle collisions. **According to the Williamson County Sheriff's office, there have been no reported accidents at this location since 1988.**

C. Minimum volumes:

1. The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 vehicles per hour for any 8 hours of an average day, and
2. The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units per hour for the same 8 hours, with an average delay to minor-street vehicular traffic of at least 30 seconds per vehicle during the highest hour, but
3. If the 85th-percentile approach speed of the major-street traffic exceeds 65 km/h (40 mph), the minimum vehicular volume warrants are 70 percent of the above values.

D. Where no single criterion is satisfied, but where Criteria B, C.1, and C.2 are all satisfied to 80 percent of the minimum values. Criterion C.3 is excluded from this condition. **A volume count was conducted from March 9 to March 10. As shown on the attachment, the minimum volume has been met. The average vehicular volume from O'Conner was 419 vehicles per hour. The**

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Option:

Other criteria that may be considered in an engineering study include:

- A. The need to control left-turn conflicts;
- B. The need to control vehicle/pedestrian conflicts near locations that generate high pedestrian volumes;
- C. Locations where a road user, after stopping, cannot see conflicting traffic and is not able to safely negotiate the intersection unless conflicting cross traffic is also required to stop; and
- D. An intersection of two residential neighborhood collector (through) streets of similar design and operating characteristics where multi-way stop control would improve traffic operational characteristics of the intersection.

It is therefore my professional opinion that the placement of multi-way stop signs at the above stated intersection is warranted and recommend that the Williamson County Commissioner's Court adopt the placement of the signs.

Time	Morgan North	Morgan South	Total Morgan	Top 8 hours	Avery Ranch West	Avery Ranch East	Total Avery Ranch	Same 8 hours
12:00 am	3	0	3		10	13	23	
1:00	5	0	5		8	11	19	
2:00	2	0	2		3	1	4	
3:00	2	2	4		12	14	26	
4:00	7	2	9		12	14	26	
5:00	42	4	46		17	19	36	
6:00	127	8	135	135	70	80	150	150
7:00	252	34	286	286	237	306	543	543
8:00	231	33	264	264	242	255	497	497
9:00	95	26	121	121	171	121	292	292
10:00	84	12	96		107	108	216	
11:00	73	20	93		130	115	245	
	0	0	0		0	0	0	
12:00 pm	74	10	84		160	157	317	
1:00	95	18	113	113	135	144	279	279
2:00	66	19	85		184	157	341	
3:00	98	18	116	116	187	218	405	405
4:00	92	49	141	141	283	227	510	510
5:00	102	20	122	122	371	307	678	678
6:00	91	18	109		351	303	654	
7:00	67	19	86		207	247	454	
8:00	59	18	77		166	129	295	
9:00	32	2	34		145	103	248	
10:00	18	4	22		54	61	115	
11:00	9	0	9		14	22	36	
TOTAL	1726	336	2062	162.25	3276	3133	6409	419.25
Avg. for top 8 hours								
Speed limit on Avery Ranch				40				
Minimum volume needed for multi-way stop sign placement				140				210

AGENDA ITEM 20

Consider authorizing the trade in of slow moving parts inventory at Fleet Services. (Complete list filed with official minutes.)

Moved: **Commissioner Hays**

Seconded: **Judge Doerfler**

Motion: To authorize the trade in of slow moving parts inventory at Fleet Services. (Complete list filed with official minutes.)

Vote: **5 – 0**

< Attachment >