



Fort Bend County Engineering
FORT BEND COUNTY, TEXAS

Richard W. Stolleis, P.E.
County Engineer

December 12, 2016

Commissioner Richard Morrison
Fort Bend County Precinct 1
1517 Eugene Heimann Circle
Richmond, TX 77469

RE: Greatwood Parkway at Rabbs Crossing – Multi-Way Stop Control

Dear Commissioner Morrison:

The Fort Bend County Engineering Department has completed a review of the operational conditions at the intersection of Greatwood Parkway at Rabbs Crossing in response to a request for multi-way stop control. The posted speed limit is 35 mph on Greatwood Parkway and 25 mph on Rabbs Crossing. The intersection currently operates with stop control on Rabbs Crossing. Both roadways are identified as Collectors in the 2015 Fort Bend County Major Thoroughfare Plan.

Traffic counts were collected and used to evaluate the intersection for multi-way stop control based on the warrants specified in the Texas Manual on Uniform Traffic Control Devices. Based on the data collected, traffic volumes warrant multi-way stop control at the intersection. The multi-way stop control worksheet and updated traffic control plan are attached.

Based on the above results, Engineering recommends the conversion of the intersection to multi-way stop control. If you have any questions please do not hesitate to contact me at 281-633-7528 or chris.debaillon@fortbendcountytexas.gov.

Regards,

A handwritten signature in blue ink, appearing to read "Chris Debaillon".

Chris Debaillon, PE, PTOE
Assistant County Engineer – Traffic

CD/mjs

cc: Judge Robert E. Hebert, County Judge
Marc Grant - FBC Road & Bridge
Brian Fields - Signage Department
Wendy Troxler – Greatwood HOA
File

Attachments

301 Jackson St., 4th Floor | Richmond, TX 77469
Phone 281-633-7500 * Fax 281-633-7545

Multi-Way Stop Warrant Analysis Summary

2011 Texas Manual on Uniform Traffic Control Devices Multi-Way Stop Warrants



Survey Date: 10/18/2016

Precinct 1

Fort Bend County Engineering

Streets		Speeds:	85th Pct.	Posted
Major	Greatwood Pkwy		38	35
Minor	Rabbs Crossing		-	30

Eight Highest Hours:

Hour	Major St.	Minor St.
	Veh. Total	Unit Total
7:00	721	330
16:00	858	278
8:00	389	258
17:00	989	255
6:00	336	248
19:00	524	244
15:00	585	234
18:00	841	213
Average	655	258

Required Average Vehicle Volumes:

Major St. - Both Approaches			Minor St. - Both Approaches		
100%	80%	70%	100%	80%	70%
300	240	210	200	160	140

80% Condition used when there have been 4 or more crashes susceptible to correction by a multi-way stop in a 12-month period

70% Condition used when major street posted or 85th percentile speed exceeds 40 mph

Eight-Hour Average Vehicular Volume Warrant Satisfied? Yes

Is a traffic signal warranted and are arrangements being made for its installation? No

Have there been 5 or more crashes susceptible to correction by a multi-way stop in a 12-month period? No

Is a driver on the minor street, after stopping, unable to see conflicting traffic and is unable to reasonably negotiate the intersection unless conflicting cross traffic is also required to stop? No

Is there a need to control pedestrian/vehicle conflicts and is the intersection near a location generating high pedestrian volumes? No

Is the intersection composed of two residential neighborhood collector streets of similar design and operating characteristics where multi-way stop control would improve operations? No

Comments:

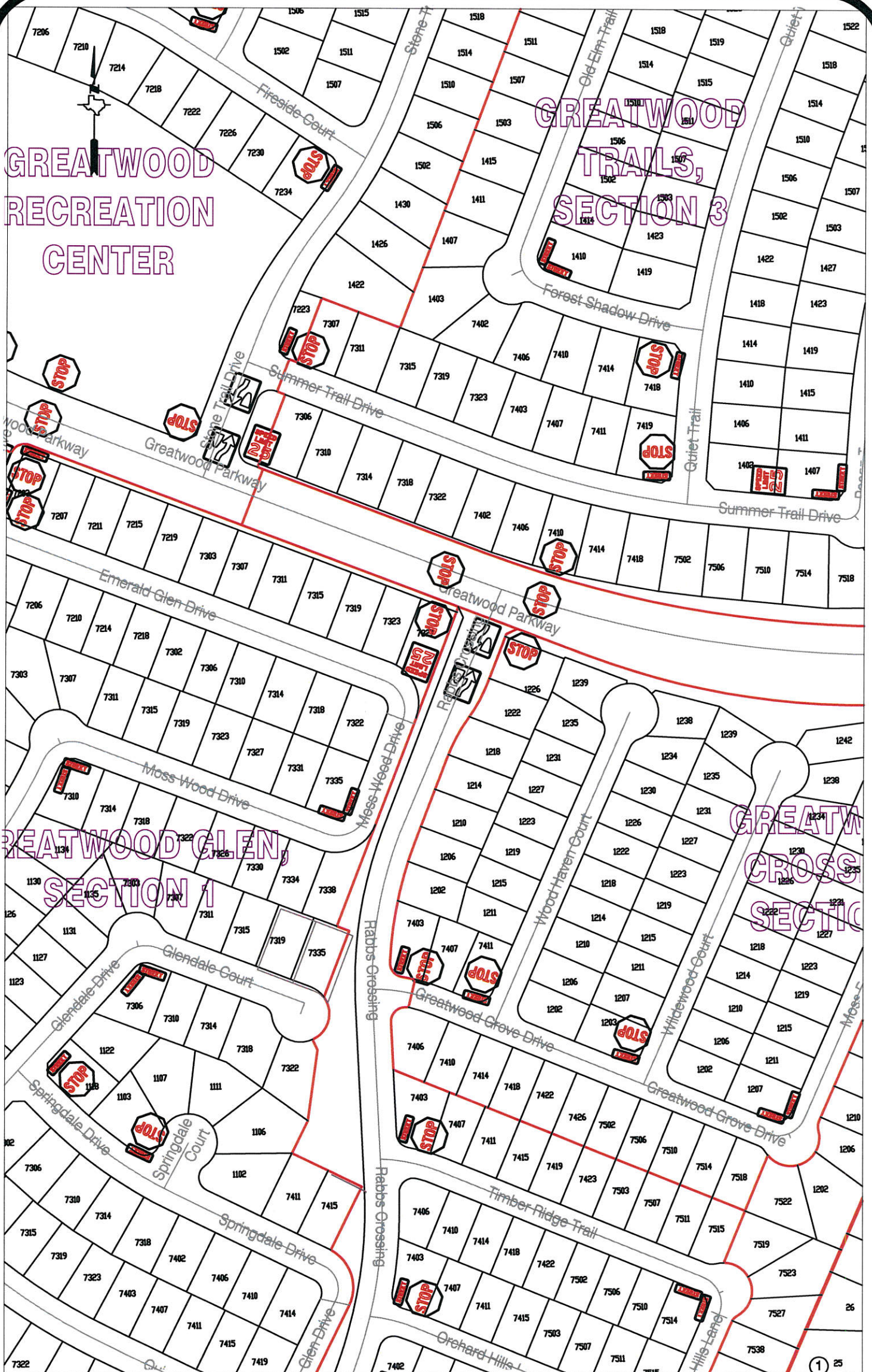
Installation of multi-way stop is warranted and recommended.

GREATWOOD
RECREATION
CENTER

GREATWOOD
TRAILS,
SECTION 3

GREATWOOD GLEN,
SECTION 1

GREATWOOD CROSS
SECTION



Note:

The purpose of this traffic control plan is to revise traffic control for the intersection of Rabbs Crossing and Greatwood Parkway with the creation of a multi-way stop as indicated on the drawing.

Drawn By: L. Brdecka
Date: 12-12-16

Approved By: Chris Deballon, PE PTOE
Date: 12/12/16

Scale: 1" = 200'-0"

Rabbs Crossing at Greatwood Parkway
Intersection

Control Map and
Traffic Sign Layout

Fort Bend County Engineering Dept.
301 Jackson Street
Richmond, Texas 77469