

TRAFFIC ENGINEERING STAFF REPORT

Agenda Item 4.b. All-Way Stop - Yockey Street and Oakdale Drive/Columbus Avenue January 4, 2011

Objective

To consider a request to install an all-way stop at the intersection of Yockey Street and Oakdale Drive/Columbus Avenue.

Background

The City received a letter from the Brookdale Homeowners Association requesting an all-way stop at the intersection of Yockey and Oakdale/Columbus. The HOA also requests extending the existing red curb on the east side of Yockey, south of Oakdale, to improve visibility. In making these requests, the HOA cited difficulty entering Yockey from Oakdale.

Discussion

In order for a residential intersection to qualify for an all-way stop, it must satisfy a minimum of two of four established warrants. The warrants address sight visibility, distance between locations, traffic volumes and accidents.

Staff collected traffic volumes, reviewed the collision history and field checked the area. Only one of the four warrants was satisfied.

Regarding painting red curb, staff has issued a work order to paint 50 additional feet of red curb (for a total of 75 feet) on the east side of Yockey south of Oakdale. Since this segment is directly in front of the Brookdale Town Homes, staff was able to act on the request immediately. Staff also proposes additional red curb at the three remaining corners of the intersection to improve sight distance and overall traffic safety. These three segments are adjacent to the Calais Apartments and the Classics housing development as shown on the attached exhibit.

Recommendation

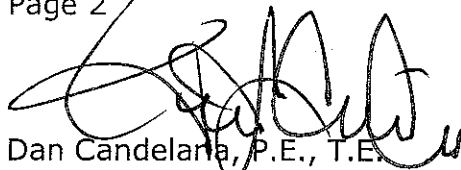
It is recommended that the Traffic Commission receive public input and approve staff's recommendation to:

- Deny the request to install an all-way stop at the intersection of Yockey Street and Oakdale Drive/Columbus Avenue.
- Paint additional red curb at the intersection of Yockey Street and Oakdale Drive/Columbus Avenue.

ALL-WAY STOP - YOCKEY STREET AND OAKDALE DRIVE/COLUMBUS AVENUE

January 4, 2011

Page 2



Dan Candelaria, P.E., T.E.
Executive Secretary

Attachments: Vicinity Map

Letter from Brookdale HOA dated October 15, 2010

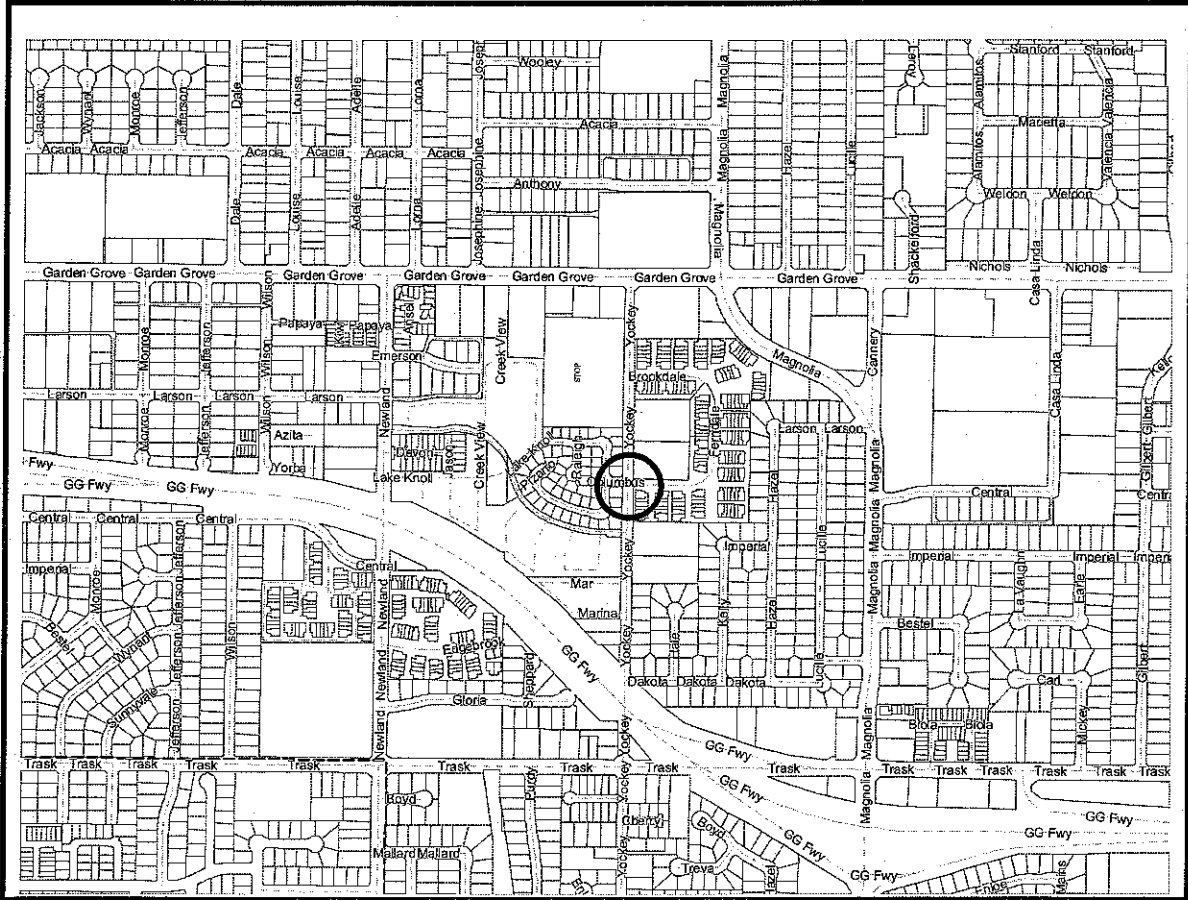
Residential All-Way Stop Warrant Study

Traffic Volumes

Collision History

Red Curb Exhibit

LOCATION MAP



Agenda Item 4.b



BROOKDALE

Homeowners Association

October 15, 2010

Mr. Dan Candelara
City Traffic Engineer
11222 Acacia Parkway
PO Box 3070
Garden Grove, CA 92842

RE: Brookdale HOA

Dear Sir:

The Association is respectfully requesting that, due to ingress and egress problems, the City extend the red curbs at the Yockey / Oakdale cross streets.

We further request that the City conduct a feasibility study to install a four (4) way stop sign at the same location.

Thank you in anticipation of your cooperation in both of these matters.

At the Direction of the Board,

Sincerely,



Fred Stone, CCAM
Classic Property Management

CC: Board of Directors

YOCKEY @ OAKDALE/COLUMBUS

TRAFFIC ENGINEERING POLICY 43 (REVISED) ALL-WAY STOP SIGN WARRANT RESIDENTIAL

GUIDELINES

The purpose of these guidelines is to regulate the flow of traffic within residential area intersections.

Installation of an all-way stop must be compatible with the overall traffic circulation needs for the residential area.

The City recognizes that all-way stop controls do not reduce speed and is not a substitute for other traffic control devices. Many times the need for a STOP sign can be eliminated if the sight distance is increased by removing obstructions. The installation of STOP signs at locations where they are unexpected should be avoided if possible because they may increase accidents. Their purpose is to assign right-of-way for pedestrians and vehicles.

A residential area is defined when the following conditions have been met:

- (a) Both streets have residential frontage
- (b) Both streets have a speed limit of 25 mph
- (c) Neither street exceeds 40 feet of roadway width

Upon receipt of a letter requesting a stop sign, the City Traffic Engineer will oversee the analysis requisite for its installation.

The following warrants are to be used when considering the installation of an all-way stop within a residential area. The satisfaction of any two of these warrants provides a basis for the City Traffic Engineer to recommend to the Traffic Commission that stop signs be installed.

Severely Restricted Visibility

*Satisfied when available visibility is less than 100 feet of straight line of sight distance on the higher volume street for pedestrians and vehicles crossing the intersection.

Satisfied

Yes

No

Distance Between Locations

Satisfied if location is greater than 660 feet from the nearest traffic control.

Satisfied Yes X No

Traffic Volume

**Satisfied when the total vehicular volume entering the intersection from all approaches must average at least 100 vehicles per hour for any 8 hours of an average day.

Satisfied Yes No X

Accidents

Satisfied if in the opinion of the City Traffic Engineer the risks of an accident are significant.

Satisfied Yes No X

* - If reasonable measures can be taken to remove the impairment, a work order should be executed outlining the removal. This may eliminate the need for stop signs.

** - Traffic volumes of the intersecting roads should be approximately equal.

If after installation of an all-way stop, it is determined that compliance is less than 85 percent, the all-way stop control may be removed.

Should an intersection not warrant the installation of an all-way stop, the City Traffic Engineer, at his discretion, may have stop signs installed on the side street(s) to clarify right-of-way assignment.

LOCATION - YOKEY ST @ COLUMBUS

15 MINUTE VOLUMES

AM						PM					
TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL	TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL
12:00 - 12:15	14	0	10	0	24	12:00 - 12:15	27	4	41	4	76
12:15 - 12:30	4	2	6	0	12	12:15 - 12:30	42	2	42	4	90
12:30 - 12:45	4	2	3	0	9	12:30 - 12:45	35	4	40	7	86
12:45 - 1:00	11	1	4	1	17	12:45 - 1:00	18	7	43	6	74
1:00 - 1:15	10	2	2	0	14	1:00 - 1:15	24	1	34	4	63
1:15 - 1:30	2	1	6	0	9	1:15 - 1:30	24	10	56	2	92
1:30 - 1:45	5	0	2	0	7	1:30 - 1:45	20	6	38	5	69
1:45 - 2:00	2	1	2	0	5	1:45 - 2:00	14	4	44	1	63
2:00 - 2:15	2	0	2	0	4	2:00 - 2:15	28	8	60	6	102
2:15 - 2:30	4	5	5	1	15	2:15 - 2:30	22	6	50	11	89
2:30 - 2:45	0	0	1	0	1	2:30 - 2:45	22	4	48	6	80
2:45 - 3:00	0	0	2	0	2	2:45 - 3:00	38	1	52	4	95
3:00 - 3:15	2	0	1	0	3	3:00 - 3:15	21	4	48	5	78
3:15 - 3:30	0	1	1	0	2	3:15 - 3:30	22	6	56	2	86
3:30 - 3:45	4	0	0	1	5	3:30 - 3:45	24	8	58	4	94
3:45 - 4:00	0	0	0	0	0	3:45 - 4:00	23	2	60	8	93
4:00 - 4:15	3	0	3	1	7	4:00 - 4:15	28	2	62	6	98
4:15 - 4:30	1	1	2	0	4	4:15 - 4:30	29	4	54	4	91
4:30 - 4:45	2	1	2	1	6	4:30 - 4:45	32	4	46	2	84
4:45 - 5:00	6	1	3	2	12	4:45 - 5:00	24	4	32	6	66
5:00 - 5:15	2	4	6	4	16	5:00 - 5:15	46	6	42	6	100
5:15 - 5:30	9	1	4	4	18	5:15 - 5:30	60	6	48	9	123
5:30 - 5:45	14	6	7	3	30	5:30 - 5:45	56	3	58	14	131
5:45 - 6:00	8	2	9	2	21	5:45 - 6:00	44	4	55	15	118
6:00 - 6:15	23	3	6	2	34	6:00 - 6:15	34	7	48	12	101
6:15 - 6:30	12	7	11	6	36	6:15 - 6:30	35	6	44	19	104
6:30 - 6:45	14	4	12	6	36	6:30 - 6:45	45	7	52	2	106
6:45 - 7:00	14	6	22	6	48	6:45 - 7:00	32	7	50	6	95
7:00 - 7:15	32	10	24	2	68	7:00 - 7:15	40	2	40	4	86
7:15 - 7:30	30	17	44	16	107	7:15 - 7:30	38	4	45	4	91
7:30 - 7:45	59	14	74	13	160	7:30 - 7:45	26	3	27	13	69
7:45 - 8:00	67	8	100	18	193	7:45 - 8:00	21	0	38	10	69
8:00 - 8:15	32	11	79	7	129	8:00 - 8:15	26	3	41	4	74
8:15 - 8:30	20	2	42	15	79	8:15 - 8:30	21	0	28	8	57
8:30 - 8:45	18	8	45	4	75	8:30 - 8:45	28	2	26	4	60
8:45 - 9:00	12	9	46	11	78	8:45 - 9:00	18	2	31	7	58
9:00 - 9:15	10	2	38	4	54	9:00 - 9:15	10	1	26	4	41
9:15 - 9:30	12	3	50	8	73	9:15 - 9:30	14	4	24	6	48
9:30 - 9:45	20	7	44	6	77	9:30 - 9:45	21	1	31	1	54
9:45 - 10:00	16	4	35	2	57	9:45 - 10:00	10	5	23	3	41
10:00 - 10:15	26	2	40	6	74	10:00 - 10:15	12	3	16	0	31
10:15 - 10:30	12	2	40	4	58	10:15 - 10:30	7	1	14	2	24
10:30 - 10:45	20	4	46	8	78	10:30 - 10:45	9	2	25	6	42
10:45 - 11:00	22	16	38	3	79	10:45 - 11:00	17	3	13	0	33
11:00 - 11:15	18	4	32	6	60	11:00 - 11:15	11	2	4	0	17
11:15 - 11:30	36	2	48	4	90	11:15 - 11:30	8	2	12	1	23
11:30 - 11:45	18	4	26	6	54	11:30 - 11:45	14	3	7	1	25
11:45 - 12:00	30	3	30	4	67	11:45 - 12:00	7	2	6	0	15

TOTALS

1,909 365 2,893 445 5,612

LOCATION - YOCKEY ST @ COLUMBUS

HOURLY VOLUMES

AM						PM					
TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL	TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL
12:00 - 1:00	33	5	23	1	62	12:00 - 1:00	122	17	166	21	326
1:00 - 2:00	19	4	12	0	35	1:00 - 2:00	82	21	172	12	287
2:00 - 3:00	6	5	10	1	22	2:00 - 3:00	110	19	210	27	366
3:00 - 4:00	6	1	2	1	10	3:00 - 4:00	90	20	222	19	351
4:00 - 5:00	12	3	10	4	29	4:00 - 5:00	113	14	194	18	339
5:00 - 6:00	33	13	26	13	85	5:00 - 6:00	206	19	203	44	472
6:00 - 7:00	63	20	51	20	154	6:00 - 7:00	146	27	194	39	406
7:00 - 8:00	188	49	242	49	528	7:00 - 8:00	125	9	150	31	315
8:00 - 9:00	82	30	212	37	361	8:00 - 9:00	93	7	126	23	249
9:00 - 10:00	58	16	167	20	261	9:00 - 10:00	55	11	104	14	184
10:00 - 11:00	80	24	164	21	289	10:00 - 11:00	45	9	68	8	130
11:00 - 12:00	102	13	136	20	271	11:00 - 12:00	40	9	29	2	80
TOTALS							1,909	365	2,893	445	5,612

North Leg (SB) - - TUESDAY 10/26/10 TO TUESDAY 10/26/10

East Leg (WB) - - TUESDAY 10/26/10 TO TUESDAY 10/26/10

South Leg (NB) - - TUESDAY 10/26/10 TO TUESDAY 10/26/10

West Leg (EB) - - TUESDAY 10/26/10 TO TUESDAY 10/26/10

City of Garden Grove
 Traffic Engineering Department
 Traffic Collision History Report

Location: Yockey Street / Oakdale Drive
 Date Range Reported: 5/20/2004 - 5/20/2009
 Total Number of Collisions: 2

Report No.	Date	Time	Dist.	Dir.	Type of Collision	Motor Veh. Involved With	Direct. of Travel 1	Movement Prec. Coll. 1	Direct. of Travel 2	Movement Prec. Coll. 2	PCF	Inj.	Kil
2302962	6/4/05	22:13	4	North	Sideswipe	Other Motor Vehicle	South	Proceeding Straight	South	Making U Turn	Improper Turning	2	0
4158373	2/7/09	12:19	16	South	Broadside	Parked Motor Vehicle	South	Parked	South	Making Left Turn	Improper Turning	0	0
Total Number of Collisions: 2													

Settings Used For Query

<u>Parameter</u>	<u>Setting</u>
Street Name	YOCKEY STREET
Cross Street	OAKDALE DRIVE
Starting Date	5/20/2004
Ending Date	5/20/2009
Intersection	Intersection Related

RED CURB EXHIBIT

THE CLASSICS
HOUSING DEVELOPMENT

YOCKEY ST.

PAINT NEW RED CURB

50'

EX. RED CURB

20'

COLUMBUS AVE.

THE CALAIS
APARTMENTS

PAINT NEW RED CURB

25'

EX. RED CURB

23'

OAKDALE AVE.



EX. RED CURB

15'

PAINT NEW RED CURB

30'

THE CLASSICS
HOUSING DEVELOPMENT

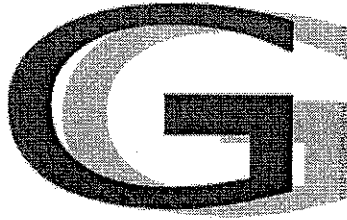
EX. RED CURB

75'

BROOKDALE
TOWNHOMES



NO SCALE



GARDEN GROVE

NOTICE OF PUBLIC FORUM

Dear Resident:

The City of Garden Grove Traffic Commission will hold its regularly scheduled meeting on Tuesday January 4, 2011 at 6:00 p.m. The meeting will be held in the City Council Chambers of the Community Meeting Center, 11300 Stanford Avenue.

We will be considering a request to install an all-way stop at the intersection of Yockey Street and Oakdale Drive/Columbus Avenue.

We welcome you to attend and provide input at this meeting. **(AGENDA ITEM 4-B)** If you have any questions, please call Traffic Engineering at 714.741.5185.

AB
Fred Stone
Classic Property Management
Brookdale HOA
16470 Bake Parkway
Irvine, CA 92618

AB
owner
Calais Apartments
c/o Hsien T. Chao
18232 Serrano Avenue
Orange, CA 92867

AB
The Classics Garden Grove
c/o Association Management
14780 Pipeline Avenue
Chino Hill, CA 91079

~~Mr. Joe Vieira
13122 Monroe Street
Garden Grove, CA 92844~~

~~Mr. David Andrade
11702 Yana Drive
Garden Grove, CA 92841~~

AB
Calais Apartments
13182 Yockey Street
Garden Grove CA 92840

delivered
notice to
common area