

Appendix 5

Year 2035 Traffic Operational Analysis Summaries

**Low Build Alternative
Year 2035 Peak Hour Traffic Operations**

Golf Road Intersection	Traffic Control	Peak Hour	Level of Service per Movement by Approach											
			Eastbound			Westbound			Northbound			Southbound		
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
STH 83	Traffic Signal	PM	D	D	D	C	D	D	B	C	B	B	C	B
		SAT	C	D	D	D	C	C	C	D	C	C	C	B
Walgreen's Driveway	One-Way Stop	PM	-	A	-	-	A	A	-	-	-	-	-	B
		SAT	-	A	-	-	A	A	-	-	-	-	-	B
Sports Authority / Truck Access	Two-Way Stop	PM	B	A	A	B	A	A	-	-	B	F ¹	F ¹	F ¹
		SAT	B	A	A	B	A	A	-	-	C	F ²	F ²	F ²
Kohl's West Access	One-Way Stop	PM	B	A	-	-	A	A	-	-	-	F ³	-	B
		SAT	B	A	-	-	A	A	-	-	-	F ⁴	-	B
Marshall's Access	One-Way Stop	PM	-	A	A	A	A	-	F ⁵	-	A	-	-	-
		SAT	-	A	A	B	A	-	F ⁶	-	A	-	-	-
Applebee's Access	One-Way Stop	PM	-	A	A	A	A	-	B	-	B	-	-	-
		SAT	-	A	A	A	A	-	B	-	B	-	-	-
Kohl's East Access	One-Way Stop	PM	A	A	-	-	A	A	-	-	-	B	-	B
		SAT	A	A	-	-	A	A	-	-	-	C	-	B
Qdoba Access	One-Way Stop	PM	-	A	A	A	A	-	B	-	B	-	-	-
		SAT	-	A	A	A	A	-	C	-	C	-	-	-
Sentry West Access / Best Buy Access	Two-Way Stop	PM	A	A	A	A	A	A	C	C	A	B	B	B
		SAT	A	A	A	A	A	A	C	C	B	C	C	B
Sentry East Access / Truck Access	Two-Way Stop	PM	A	A	A	A	A	A	B	B	B	B	B	B
		SAT	A	A	A	A	A	A	B	B	B	B	B	B

Notes: Eastbound and westbound movements represent Golf Road.
(-) indicates a movement that is not possible.

- 1) Delay = 126 seconds per vehicle
- 2) Delay = 410 seconds per vehicle
- 3) Delay = 51 seconds per vehicle
- 4) Delay = 104 seconds per vehicle
- 5) Delay = 106 seconds per vehicle
- 6) Delay = 644 seconds per vehicle

**Medium Build Alternative Signal Option
Year 2035 Peak Hour Traffic Operations**

Golf Road Intersection	Traffic Control	Peak Hour	Level of Service per Movement by Approach											
			Eastbound			Westbound			Northbound			Southbound		
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
STH 83	Traffic Signal	PM	D	D	D	C	D	D	B	C	B	B	C	B
		SAT	C	D	D	D	C	C	C	D	C	C	C	B
Walgreen's Driveway	One-Way Stop	PM	-	A	-	-	A	A	-	-	-	-	-	B
		SAT	-	A	-	-	A	A	-	-	-	-	-	B
Sports Authority / Truck Access	Two-Way Stop	PM	B	A	A	B	A	A	-	-	B	C	C	C
		SAT	B	A	A	B	A	A	-	-	B	D	D	D
Kohl's West Access/ Marshall's Access	Traffic Signal	PM	A	A	A	B	B	B	C	C	B	B	B	B
		SAT	B	B	B	C	C	C	C	C	B	B	B	B
Applebee's Access	One-Way Stop	PM	-	A	A	-	A	-	-	-	B	-	-	-
		SAT	-	A	A	-	A	-	-	-	A	-	-	-
Kohl's East Access	One-Way Stop	PM	A	A	-	-	A	A	-	-	-	B	-	B
		SAT	A	A	-	-	A	A	-	-	-	C	-	B
Qdoba Access	One-Way Stop	PM	-	A	A	-	A	-	B	-	B	-	-	-
		SAT	-	A	A	-	A	-	C	-	C	-	-	-
Sentry West Access / Best Buy Access	Two-Way Stop	PM	A	A	A	A	A	A	C	C	A	C	C	B
		SAT	A	A	A	A	A	A	D	D	B	C	C	B
Sentry East Access / Truck Access	Two-Way Stop	PM	A	A	A	A	A	A	B	B	B	B	B	B
		SAT	A	A	A	A	A	A	B	B	B	B	B	B

Notes: Eastbound and westbound movements represent Golf Road.
(-) indicates a movement that is not possible.

**Medium Build Alternative Roundabout Option
Year 2035 Peak Hour Traffic Operations**

Golf Road Intersection	Traffic Control	Peak Hour	Level of Service per Movement by Approach											
			Eastbound			Westbound			Northbound			Southbound		
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
STH 83	Traffic Signal	PM	D	D	D	C	D	D	B	C	B	B	C	B
		SAT	C	D	D	D	C	C	C	D	C	C	C	B
Walgreen's Driveway	One-Way Stop	PM	-	A	-	-	A	A	-	-	-	-	-	B
		SAT	-	A	-	-	A	A	-	-	-	-	-	B
Sports Authority / Truck Access	Two-Way Stop	PM	B	A	A	B	A	A	-	-	B	D	D	D
		SAT	B	A	A	B	A	A	-	-	B	E'	E'	E'
Kohl's West Access/ Marshall's Access	Roundabout	PM		A			A			A			A	
		SAT		A			A			A			A	
Applebee's Access	One-Way Stop	PM	-	A	A	-	A	-	-	-	B	-	-	-
		SAT	-	A	A	-	A	-	-	-	B	-	-	-
Kohl's East Access	One-Way Stop	PM	A	A	-	-	A	A	-	-	-	C	-	B
		SAT	A	A	-	-	A	A	-	-	-	C	-	B
Qdoba Access	One-Way Stop	PM	-	A	A	-	A	-	B	-	B	-	-	-
		SAT	-	A	A	-	A	-	C	-	C	-	-	-
Sentry West Access / Best Buy Access	Two-Way Stop	PM	A	A	A	A	A	A	C	C	A	C	C	B
		SAT	A	A	A	A	A	A	D	D	B	C	C	B
Sentry East Access / Truck Access	Two-Way Stop	PM	A	A	A	A	A	A	B	B	B	B	B	B
		SAT	A	A	A	A	A	A	B	B	B	B	B	B

Notes: Eastbound and westbound movements represent Golf Road.
(-) indicates a movement that is not possible.

- 1) Delay = 38 seconds per vehicle

**High Build Alternative Stop Control Option
Year 2035 Peak Hour Traffic Operations**

Golf Road Intersection	Traffic Control	Peak Hour	Level of Service per Movement by Approach											
			Eastbound			Westbound			Northbound			Southbound		
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
STH 83	Traffic Signal	PM	D	D	D	C	D	D	B	C	B	B	C	B
		SAT	C	D	D	D	C	C	C	D	C	C	C	B
Walgreen's Driveway	One-Way Stop	PM	-	A	-	-	A	A	-	-	-	-	-	B
		SAT	-	A	-	-	A	A	-	-	-	-	-	B
Sports Authority / Truck Access	Two-Way Stop	PM	B	A	A	B	A	A	F ¹	F ¹	B	C	C	C
		SAT	B	A	A	B	A	A	F ²	F ²	B	D	D	D
Kohl's West Access	One-Way Stop	PM	B	A	-	-	A	A	-	-	-	C	-	B
		SAT	B	A	-	-	A	A	-	-	-	D	-	B
Marshall's Access	One-Way Stop	PM	-	A	A	A	A	-	C	-	A	-	-	-
		SAT	-	A	A	B	A	-	E ³	-	A	-	-	-
Applebee's Access	One-Way Stop	PM	-	A	A	A	A	-	B	-	B	-	-	-
		SAT	-	A	A	A	A	-	C	-	B	-	-	-
Kohl's East Access	One-Way Stop	PM	A	A	-	-	A	A	-	-	-	B	-	B
		SAT	A	A	-	-	A	A	-	-	-	C	-	B
Odooba Access	One-Way Stop	PM	-	A	A	-	A	-	B	-	B	-	-	-
		SAT	-	A	A	-	A	-	C	-	C	-	-	-
Sentry West Access / Best Buy Access	Two-Way Stop	PM	A	A	A	A	A	A	C	C	A	C	C	B
		SAT	A	A	A	A	A	A	D	D	B	C	C	B
Sentry East Access / Truck Access	Two-Way Stop	PM	A	A	A	A	A	A	B	B	B	B	B	B
		SAT	A	A	A	A	A	A	B	B	B	B	B	B

Notes: Eastbound and westbound movements represent Golf Road.
(-) indicates a movement that is not possible.

- 1) Delay = 52 seconds per vehicle
- 2) Delay = 129 seconds per vehicle
- 3) Delay = 39 seconds per vehicle

**High Build Alternative Signal Option
Year 2035 Peak Hour Traffic Operations**

Golf Road Intersection	Traffic Control	Peak Hour	Level of Service per Movement by Approach											
			Eastbound			Westbound			Northbound			Southbound		
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
STH 83	Traffic Signal	PM	D	D	D	C	D	D	B	C	B	B	C	B
		SAT	C	D	D	D	C	C	C	D	C	C	C	B
Walgreen's Driveway	One-Way Stop	PM	-	A	-	-	A	A	-	-	-	-	-	B
		SAT	-	A	-	-	A	A	-	-	-	-	-	B
Sports Authority / Truck Access	Two-Way Stop	PM	B	A	A	B	A	A	-	-	B	C	C	C
		SAT	B	A	A	B	A	A	-	-	B	D	D	D
Kohl's West Access/ Marshall's Access	Traffic Signal	PM	A	A	A	B	B	B	C	C	B	B	B	B
		SAT	B	B	B	C	C	C	C	C	B	B	B	B
Applebee's Access	One-Way Stop	PM	-	A	A	-	A	-	-	-	B	-	-	-
		SAT	-	A	A	-	A	-	-	-	A	-	-	-
Kohl's East Access	One-Way Stop	PM	A	A	-	-	A	A	-	-	-	B	-	B
		SAT	A	A	-	-	A	A	-	-	-	C	-	B
Qdoba Access	One-Way Stop	PM	-	A	A	-	A	-	B	-	B	-	-	-
		SAT	-	A	A	-	A	-	C	-	C	-	-	-
Sentry West Access / Best Buy Access	Two-Way Stop	PM	A	A	A	A	A	A	C	C	A	C	C	B
		SAT	A	A	A	A	A	A	D	D	B	C	C	B
Sentry East Access / Truck Access	Two-Way Stop	PM	A	A	A	A	A	A	B	B	B	B	B	B
		SAT	A	A	A	A	A	A	B	B	B	B	B	B

Notes: Eastbound and westbound movements represent Golf Road.
(-) indicates a movement that is not possible.

**High Build Alternative Roundabout Option
Year 2035 Peak Hour Traffic Operations**

Golf Road Intersection	Traffic Control	Peak Hour	Level of Service per Movement by Approach											
			Eastbound			Westbound			Northbound			Southbound		
			LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
STH 83	Traffic Signal	PM	D	D	D	C	D	D	B	C	B	B	C	B
		SAT	C	D	D	D	C	C	C	D	C	C	C	B
Walgreen's Driveway	One-Way Stop	PM	-	A	-	-	A	A	-	-	-	-	-	B
		SAT	-	A	-	-	A	A	-	-	-	-	-	B
Sports Authority / Truck Access	Two-Way Stop	PM	B	A	A	B	A	A	-	-	B	D	D	D
		SAT	B	A	A	B	A	A	-	-	B	E ¹	E ¹	E ¹
Kohl's West Access / Marshall's Access	Roundabout	PM		A			A			A			A	
		SAT		A			A			A			A	
Applebee's Access	One-Way Stop	PM	-	A	A	-	A	-	-	B	-	-	-	
		SAT	-	A	A	-	A	-	-	B	-	-	-	
Kohl's East Access	One-Way Stop	PM	A	A	-	-	A	A	-	-	-	C	-	B
		SAT	A	A	-	-	A	A	-	-	-	C	-	B
Qdoba Access	One-Way Stop	PM	-	A	A	-	A	-	B	-	B	-	-	-
		SAT	-	A	A	-	A	-	C	-	C	-	-	-
Sentry West Access / Best Buy Access	Two-Way Stop	PM	A	A	A	A	A	A	C	C	A	C	C	B
		SAT	A	A	A	A	A	A	D	D	B	C	C	B
Sentry East Access / Truck Access	Two-Way Stop	PM	A	A	A	A	A	A	B	B	B	B	B	B
		SAT	A	A	A	A	A	A	B	B	B	B	B	B

Notes: Eastbound and westbound movements represent Golf Road.
(-) indicates a movement that is not possible.

1) Delay = 38 seconds per vehicle