

Highwood Drive Study

Intersection Operations Analysis

East Bush Lake Road/Highwood Drive Operations Analysis

Scenario	A.M. Peak			P.M. Peak		
	LOS	Delay (sec.)	NB 95 th % Queue	LOS	Delay (sec.)	SB 95 th % Queue
Existing	C	24	475 ft	C	21	525 ft
Year 2030 - Option 1 ⁽¹⁾	C	33	750 ft	C	28	650 ft
Year 2030 - Option 2 ⁽²⁾	B	12	185 ft	B	15	285 ft
Year 2030 - Option 3 ⁽³⁾	C	17	250 ft	B	13	150 ft

(1) Option 1 - New Traffic Signal with Existing Roadway

(2) Option 2 - New Traffic Signal with Four Lanes

(3) Option 3 - Multi-Lane Roundabout

East Bush Lake Road/Highwood Drive Operations Analysis

Scenario	A.M. Peak - Highwood Drive Approach			P.M. Peak - Highwood Drive Approach		
	LOS	Delay (sec.)	95 th % Queue	LOS	Delay (sec.)	95 th % Queue
Existing	D	51	340 ft	E	64	290 ft
Year 2030 - Option 1 ⁽¹⁾	D	53	390 ft	E	68	340 ft
Year 2030 - Option 2 ⁽²⁾	C	27	270 ft	C	25	190 ft
Year 2030 - Option 3 ⁽³⁾	A	7	50 ft	C	17	75 ft

(1) Option 1 - New Traffic Signal with Existing Roadway

(2) Option 2 - New Traffic Signal with Four Lanes

(3) Option 3 - Multi-Lane Roundabout

West Bush Lake Road/Highwood Drive Operations Analysis

Scenario	A.M. Peak		P.M. Peak	
	LOS	Delay (sec.)	LOS	Delay (sec.)
Existing	A	6	A	8
Year 2030 No Build	A	9	A	9
Year 2030 - Option 1 ⁽¹⁾	B	10	A	9
Year 2030 - Option 2 ⁽²⁾	A	4	A	3

(1) Option 1 - All-Way Stop Control

(2) Option 2 - Single-Lane Roundabout