

**COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR THREE-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location: Monterey Road
Major Street
Church Avenue
Minor Street

Date: 4/23/2018

Three-way stop sign installation may be considered if **any** of the following conditions exist:

1. <u>Volume</u>	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately 3000 vehicles) if 70% 2100	15769	YES	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 70% 3679	880	NO	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 53	YES	
2. <u>Collisions</u>	No. of Coll.	Yes/No	Warranted
Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	0	NO	NO
3. <u>Visibility</u>	Distance	Yes/No	Warranted
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 ft (50 m) for 25 mph (40 km/hr)	Good	NO	NO
4. <u>Residential Area</u>	Notes	Yes/No	Warranted
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	NO
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____

**COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR THREE-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location: Church Avenue
Major Street

Llagas Avenue
Minor Street

Date: 4/23/2018

Three-way stop sign installation may be considered if **any** of the following conditions exist:

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately 3000 vehicles) if 70% 2100	2132	YES	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 70% 497	430	NO	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 42	YES	
2. Collisions	No. of Coll.		
Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	1	NO	NO
3. Visibility	Distance		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 ft (50 m) for 25 mph (40 km/hr)	Good	NO	NO
4. Residential Area	Notes		Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			NO
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 ft. (250 m)	750 ft	Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:
Church Avenue
 Major Street
Murphy Avenue
 Minor Street

Date: 4/30/2018

All-way stop sign installation may be considered if **any** of the following conditions exist:

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
1. Volume			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 70% 1680	1573	<u>NO</u>	<u>NO</u>
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 70% 1120	293	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 48	<u>YES</u>	
2. Collisions	<u>No. of Coll.</u>		
Five or more accidents of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	2	<u>NO</u>	<u>NO</u>
3. 80% Values for Volumes and Accidents (only if all below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = 1920	1573	<u>NO</u>	<u>NO</u>
b) 80% of 1600 veh/day = 1280	293	<u>NO</u>	
c) 80% of five accidents = 4	2	<u>NO</u>	
4. Visibility	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Good	<u>NO</u>	<u>NO</u>
5. Residential Area			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			<u>NO</u>
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

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 Reviewed By Ananth Prasad, PE
 PE# C59176 Exp. 06/30/19

Date: 4/30/2018
 Date: _____

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:

Date: 4/30/2018

Church Avenue
Major Street

Sycamore Avenue/Kannely Lane
Minor Street

All-way stop sign installation may be considered if **any** of the following conditions exist:

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
1. Volume			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 70% 1680	1595	<u>NO</u>	NO
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 70% 1120	389	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 48	<u>YES</u>	
2. Collisions	<u>No. of Coll.</u>		
Five or more accidents of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	0	<u>NO</u>	NO
3. 80% Values for Volumes and Accidents (only if all below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = 1920	1595	<u>NO</u>	NO
b) 80% of 1600 veh/day = 1280	389	<u>NO</u>	
c) 80% of five accidents = 4	0	<u>NO</u>	
4. Visibility	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Good	<u>NO</u>	NO
5. Residential Area			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			NO
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

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Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/30/2018

Date: _____

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:

Date: 4/30/2018

Santa Teresa Boulevard
Major Street

Highland Avenue
Minor Street

All-way stop sign installation may be considered if **any** of the following conditions exist:

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
1. Volume			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 70% 1680	9239	YES	NO
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 70% 1120	961	NO	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 52	YES	
2. Collisions	<u>No. of Coll.</u>		
Five or more accidents of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	3	NO	NO
3. 80% Values for Volumes and Accidents (only if all below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = 1920	9239	YES	NO
b) 80% of 1600 veh/day = 1280	961	NO	
c) 80% of five accidents = 4	3	NO	
4. Visibility	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Good	NO	NO
5. Residential Area			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			NO
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/30/2018
Date: _____

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location: San Martin Avenue
Major Street

Murphy Avenue
Minor Street

Date: 4/30/2018

All-way stop sign installation may be considered if **any** of the following conditions exist:

1. Volume	ADT	Yes/No	Warranted
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 70% 1680	10495	YES	NO
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 70% 1120	942	NO	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 48	YES	
2. Collisions	No. of Coll.		NO
Five or more accidents of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	2	NO	
3. 80% Values for Volumes and Accidents (only if all below are met):	ADT		
a) 80% of 2400 veh/day = 1920	10495	YES	NO
b) 80% of 1600 veh/day = 1280	942	NO	
c) 80% of five accidents = 4	2	NO	
4. Visibility	Distance		NO
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Good	NO	
5. Residential Area			Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			NO
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/30/2018
Date: _____

**COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR THREE-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:

Foothill Avenue
Major Street

Middle Avenue
Minor Street

Date: 4/23/2018

Three-way stop sign installation may be considered if **any** of the following conditions exist:

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 60% 1800	2946	<u>YES</u>	<u>NO</u>
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 589	269	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 46	<u>YES</u>	
2. Collisions Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	No. of Coll. 1	<u>NO</u>	<u>NO</u>
3. Visibility The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 ft (50 m) for 25 mph (40 km/hr)	Distance Good	<u>NO</u>	<u>NO</u>
4. Residential Area Volume warrants to be reduced to 60% of the values above if all of the following conditions are met: a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits. b) Neither street is an adopted through street. c) Neither street exceeds 40 ft. (12.5 m) of roadway width. d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 ft. (250 m) e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides. f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.	Notes 750 ft	Yes/No Yes/No Yes/No Yes/No Yes/No	Yes/No <u>YES</u>

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:

Date: 4/30/2018

Foothill Avenue
Major Street

Maple Avenue
Minor Street

All-way stop sign installation may be considered if **any** of the following conditions exist:

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
1. Volume			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 60% 1440	2752	<u>YES</u>	<u>NO</u>
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 60% 960	543	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 46	<u>YES</u>	
2. Collisions	<u>No. of Coll.</u>		
Five or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	1	<u>NO</u>	<u>NO</u>
3. 80% Values for Volumes and Accidents (only if all below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = 1920	2752	<u>YES</u>	
b) 80% of 1600 veh/day = 1280	543	<u>NO</u>	<u>NO</u>
c) 80% of five accidents = 4	1	<u>NO</u>	
4. Visibility	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Good	<u>NO</u>	<u>NO</u>
5. Residential Area			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			<u>YES</u>
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/30/2018
Date: _____

**COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR THREE-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:

Date: 4/23/2018

Maple Avenue
Major Street

Center Avenue
Minor Street

Three-way stop sign installation may be considered if **any** of the following conditions exist:

1. <u>Volume</u>	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 60% 1800	1313	NO	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 263	354	YES	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 47	YES	
2. <u>Collisions</u>	No. of Coll.		
Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	0	NO	NO
3. <u>Visibility</u>	Distance		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 ft (50 m) for 25 mph (40 km/hr)	Good	NO	NO
4. <u>Residential Area</u>	Notes	Yes/No	Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			YES
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 ft. (250 m)	750 ft	Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

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Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:
Maple Avenue
 Major Street

Columbet Avenue
 Minor Street

Date: 4/23/2018

All-way stop sign installation may be considered if **any** of the following conditions exist:

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
1. Volume			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 60% 1440	1418	<u>NO</u>	NO
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 60% 960	593	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 47	<u>YES</u>	
2. Collisions	<u>No. of Coll.</u>		
Five or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	0	<u>NO</u>	NO
3. 80% Values for Volumes and Collisions (only if all below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = 1920	1418	<u>NO</u>	NO
b) 80% of 1600 veh/day = 1280	593	<u>NO</u>	
c) 80% of five collisions = 4	0	<u>NO</u>	
4. Visibility	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Good	<u>NO</u>	NO
5. Residential Area			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			YES
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of all-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
 Reviewed By Ananth Prasad, PE
 PE C59176 Exp. 06/30/19

Date: 4/23/2018
 Date: _____

**COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR THREE-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location: Maple Avenue
Major Street
Sycamore Avenue
Minor Street

Date: 4/23/2018

Three-way stop sign installation may be considered if **any** of the following conditions exist:

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 60% 1800	1764	<u>NO</u>	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 353	343	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 46	<u>YES</u>	
2. Collisions	No. of Coll.		
Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	0	<u>NO</u>	NO
3. Visibility	Distance		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 ft (50 m) for 25 mph (40 km/hr)	Good	<u>NO</u>	NO
4. Residential Area	Notes		Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	YES
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

**** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)**

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:

Date: 4/30/2018

Murphy Avenue
Major Street

Fisher Avenue
Minor Street

All-way stop sign installation may be considered if **any** of the following conditions exist:

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
1. Volume			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 60% 1440	4128	<u>YES</u>	NO
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 60% 960	118	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 47	<u>YES</u>	
2. Collisions	<u>No. of Coll.</u>		
Five or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	2	<u>NO</u>	NO
3. 80% Values for Volumes and Accidents (only if all below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = 1920	4128	<u>YES</u>	
b) 80% of 1600 veh/day = 1280	118	<u>NO</u>	NO
c) 80% of five accidents = 4	2	<u>NO</u>	
4. Visibility	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Good	<u>NO</u>	NO
5. Residential Area			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			YES
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE
Reviewed By Ananth Prasad, PE
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Date: 4/30/2018
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