

The District of North Vancouver

December 16, 2003

File: 5460-01/16

TO: Traffic & Safety Committee

FROM: Mike Frisk, Transportation Section

SUBJECT: MT. SEYMOUR PARKWAY - VEHICLE SPEED AND COLLISIONS

Speed Results:

- Speed & volume data was collected at 3 locations on Mt. Seymour Parkway: west of Riverside, east of Riverside and west of Apex.
- A cumulative speed distribution graph showing the results of the 3 locations is attached, and shows a median speed of approximately 60 km/h and an 85% ile speed of approximately 70 km/h.

ICBC Collision Stats:

- The attached table "A" shows the number of crashes on Mt. Seymour Parkway between Riverside and Mt. Seymour Road for the last 3 years. Crashes with a material damage greater than \$1,000.00 or injury totalled 102 for the year 2002.
- The table also shows a calculation of number of crashes per million vehicle kilometres. For crashes in 2002 Mt. Seymour Parkway has 3 reportable crashes per 1 million vehicle kilometres.
- The attached plan shows a percentage breakdown of the crashes and the location. Riverside is the highest at 44% of all crashes in 2002, second is Mt. Seymour Road at 17%, and the Berkley / Lytton area at 10% and 7% respectively.
- We do have a detailed breakdown of the data, however the information is confidential and cannot be shared. The information, in particular details of individual crashes, will be shared with the R.C.M.P. so as to structure counter attack programs based of the details, and focusing on the areas, times and contributing factors.

Conclusions & Recommendations:

The existing 85% ile speed is significantly higher than the posted speed indicating that speeding is an issue.

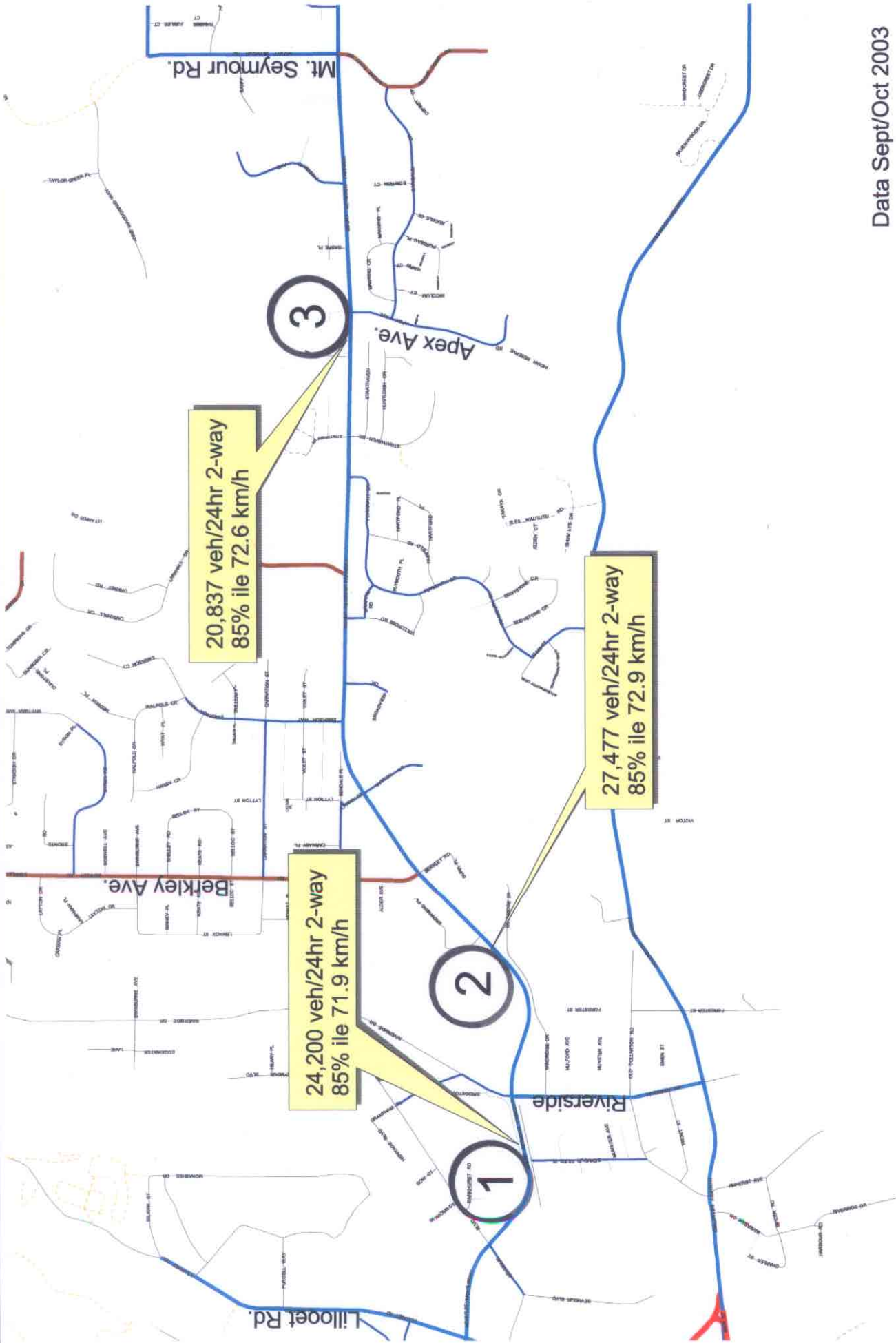
The number of collisions is significant at 3 reportable per 1 million vehicle kilometres, and is increasing dramatically.

There are "Hot Spots" at the west end, east end and the Berkley /Lytton section.

It is recommended that:

- The current 60 km/h speed limit be maintained at this time, and that DNV staff share collision stats with the R.C.M.P to develop a comprehensive corridor enforcement program.
- That DNV staff work with the R.C.M.P. to re-evaluate the merits of posted speed reduction for the very western end of Mt. Seymour Parkway. A final decision on the posted speed reduction would be based on a review of the details of existing crash stats, effectiveness of corridor enforcement, and on going speed survey results. The final boundary of any posted speed limit reduction will be identified as part of the proposed corridor enforcement and speed monitoring program.

Mt. Seymour Pkwy. - Volume & Speed

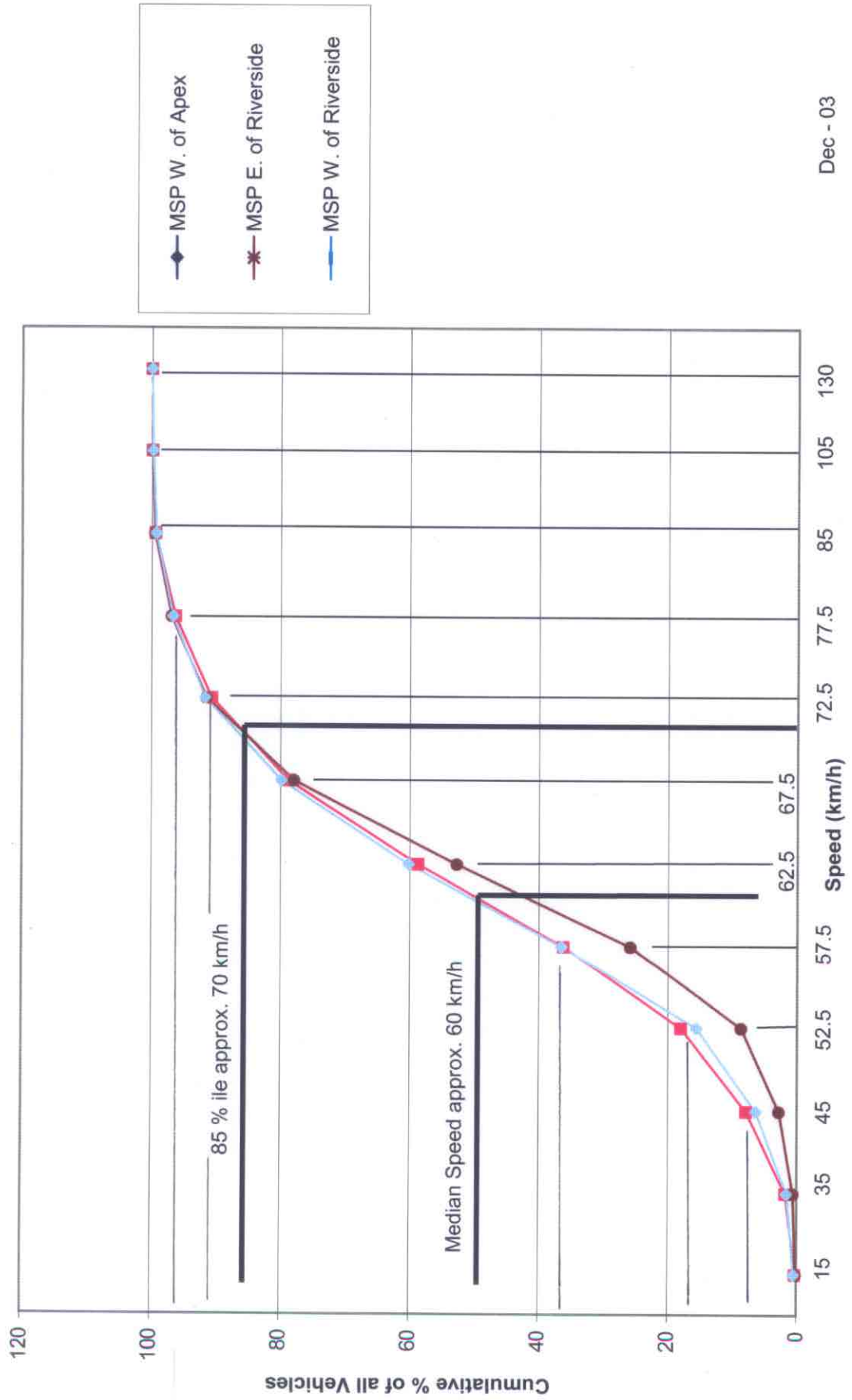


Data Sept/Oct 2003

300 0 300 600 Meters

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Cumulative Speed Distribution - Mt. Seymour Parkway



**DISTRICT OF NORTH VANCOUVER
24 HOUR VEHICLE TRAFFIC**

STREET: Mt. Seymour Pkwy - major arterial

LOCATION: West of Riverside Drive

DATE: Oct. 3 - 9, 2003

MT. SEYMOUR PKWY								
WEEK DAY								
2003		EASTBOUND			WESTBOUND			
DAY OF WEEK	DATE	LANE # 1		TOTAL	LANE # 2		TOTAL	2 WAY TOTAL
	Oct/03	CURB LN			CURB LN			
MON	Oct. 6	10866		10866	12377		12377	23243
TUES	Oct. 7	11111		11111	13151		13151	24262
WEDS	Oct. 8	11366		11366	13015		13015	24381
THUR	Oct. 9	11314		11314	13123		13123	24437
FRI	Oct. 3	11641		11641	13555		13555	25196

WEEK END								
2003		EASTBOUND			WESTBOUND			
DAY OF WEEK	DATE	LANE # 1		TOTAL	LANE # 2		TOTAL	2 WAY TOTAL
	Oct/03	CURB LN			CURB LN			
SAT	Oct. 4	12150		12150	13462		13462	25612
SUN	Oct. 5	10619		10619	11651		11651	22270

SPEED SUMMARY (7-day 85%ile)		
(KM/H)		
DIRECTION	EB	71.8
DIRECTION	WB	72.0
COMBINED	EB/WB	71.9

WEEKDAY		
DAILY AVERAGES		
DIRECTION	EB	11260
DIRECTION	WB	13044
2 WAY	EB/WB	24304

AVERAGE DAILY TRAFFIC (ADT)		
DIRECTION	EB	11295
DIRECTION	WB	12905
2 WAY	EB/WB	24200

WEEKEND		
DAILY AVERAGES		
DIRECTION	EB	11385
DIRECTION	WB	12557
2 WAY	EB/WB	23941

**DISTRICT OF NORTH VANCOUVER
24 HOUR VEHICLE TRAFFIC**

STREET: Mt. Seymour Pkwy - major arterial

LOCATION: East of Riverside Drive

DATE: Oct. 3 - 9, 2003

MT. SEYMOUR PKWY								
WEEK DAY								
2003		EASTBOUND			WESTBOUND			
DAY OF WEEK	DATE	LANE # 1		TOTAL	LANE # 2		TOTAL	2 WAY TOTAL
	Oct/03	CURB LN			CURB LN			
MON	Oct. 6	12918		12918	13606		13606	26524
TUES	Oct. 7	13183		13183	14526		14526	27709
WEDS	Oct. 8	13467		13467	14654		14654	28121
THUR	Oct. 9	13503		13503	14262		14262	27765
FRI	Oct. 3	13907		13907	14957		14957	28864

WEEK END								
2003		EASTBOUND			WESTBOUND			
DAY OF WEEK	DATE	LANE # 1		TOTAL	LANE # 2		TOTAL	2 WAY TOTAL
	Oct/03	CURB LN			CURB LN			
SAT	Oct. 4	14003		14003	14635		14635	28638
SUN	Oct. 5	12254		12254	12462		12462	24716

SPEED SUMMARY (7-day 85 th ile)		
(KM/H)		
DIRECTION	EB	72.5
DIRECTION	WB	73.2
COMBINED	EB/WB	72.9

WEEKDAY		
DAILY AVERAGES		
DIRECTION	EB	13396
DIRECTION	WB	14401
2 WAY	EB/WB	27797

AVERAGE DAILY TRAFFIC (ADT)		
DIRECTION	EB	13319
DIRECTION	WB	14157
2 WAY	EB/WB	27477

WEEKEND		
DAILY AVERAGES		
DIRECTION	EB	13129
DIRECTION	WB	13549
2 WAY	EB/WB	26677

**DISTRICT OF NORTH VANCOUVER
24 HOUR VEHICLE TRAFFIC**

STREET: Mt. Seymour Pkwy - major arterial

LOCATION: West of Apex Avenue

DATE: Sept. 26 - Oct 2, 2003

MT. SEYMOUR PKWY								
WEEK DAY								
2003		EASTBOUND			WESTBOUND			2 WAY TOTAL
DAY OF WEEK	DATE Sep/Oct/03	LANE # 1 CURB LN		TOTAL	LANE # 2 CURB LN		TOTAL	
MON	Sep 29	9922		9922	10338		10338	20260
TUES	Sep 30	10416		10416	10852		10852	21268
WEDS	Oct 1	10363		10363	10974		10974	21337
THUR	Oct 2	10235		10235	10941		10941	21176
FRI	Sep 26	10591		10591	11057		11057	21648

WEEK END								
2003		EASTBOUND			WESTBOUND			2 WAY TOTAL
DAY OF WEEK	DATE Sep/Oct/03	LANE # 1 CURB LN		TOTAL	LANE # 2 CURB LN		TOTAL	
SAT	Sep 27	10635		10635	10849		10849	21484
SUN	Sep 28	9200		9200	9488		9488	18688

SPEED SUMMARY (7-day 85 th ile)		
(KM/H)		
DIRECTION	EB	70.0
DIRECTION	WB	74.3
COMBINED	EB/WB	72.6

WEEKDAY DAILY AVERAGES		
DIRECTION	EB	10305
DIRECTION	WB	10832
2 WAY	EB/WB	21138

AVERAGE DAILY TRAFFIC (ADT)		
DIRECTION	EB	10195
DIRECTION	WB	10643
2 WAY	EB/WB	20837

WEEKEND DAILY AVERAGES		
DIRECTION	EB	9918
DIRECTION	WB	10169
2 WAY	EB/WB	20086

**INCIDENT COUNT SUMMARY TABLE FOR CRASHES
OCCURRING ON MT. SEYMOUR PKY BETWEEN
RIVERSIDE DRIVE AND MT. SEYMOUR RD**

TABLE "A"

YEAR	SEVERITY			Grand Total
	OTHER	INJURY	MATERIAL DAMAGE >\$1000	
2000		13	12	25
2001	1	15	21	37
2002		43	59	102
Grand Total	1	71	92	164

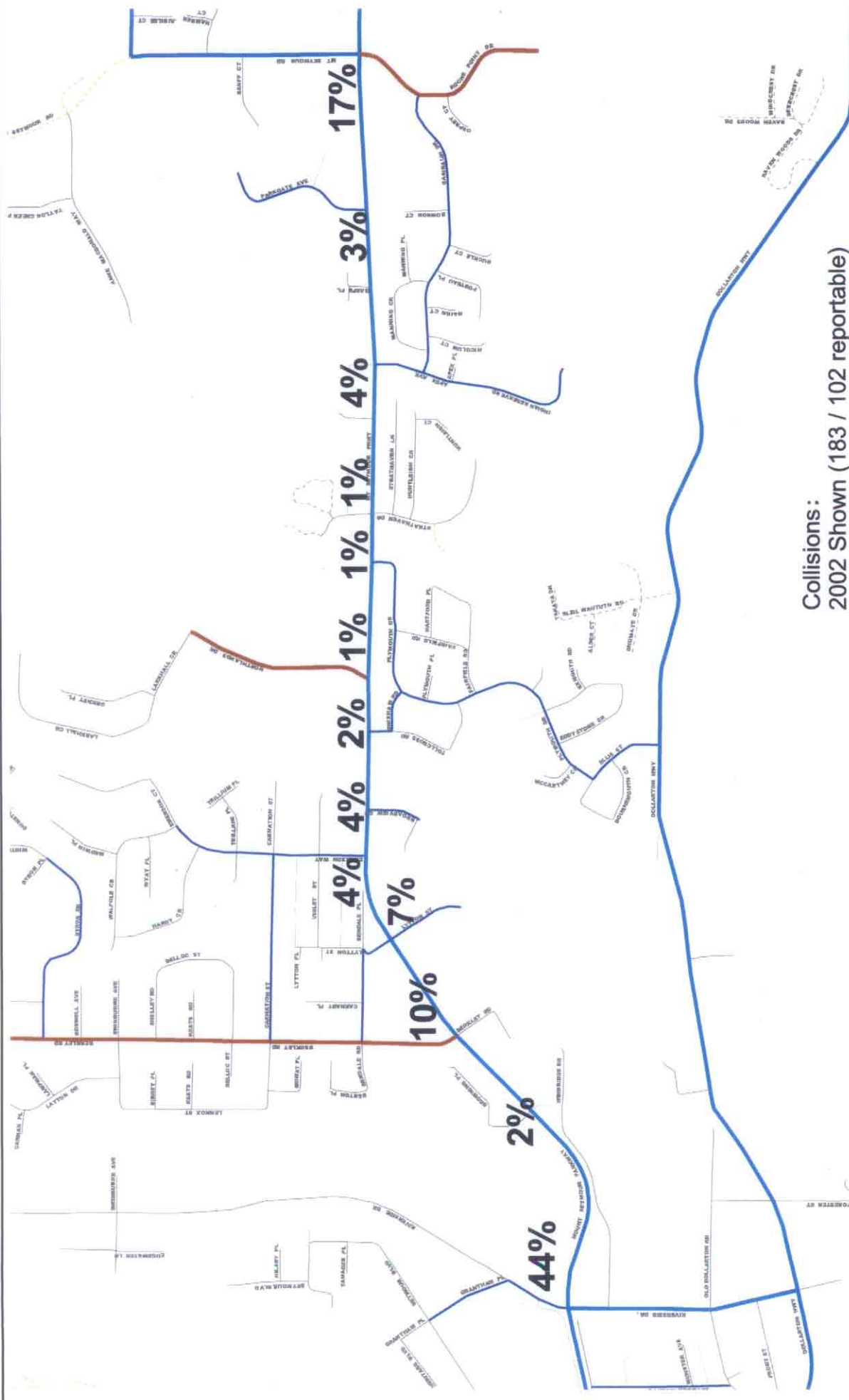
ADT = 25,000 VPD average 2-way.

Distance of corridor = 3.5 KM

Collision rate per million Veh / kms for 2002 = $25,000 * 365 * 3.5 / 102$

3 crashes per 1 million vehicle kilometers

Mt. Seymour Pkwy. - 2002 Collisions - Riverside to Mt. Seymour Rd.



Collisions:
 2002 Shown (183 / 102 reportable)
 2001 (58 / 37)
 2000 (31 / 25)



600 Meters

300 0 300

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MT. SEYMOUR PKWY. WEST OF RIVERSIDE - EASTBOUND

1 EB



MT. SEYMOUR PKWY. WEST OF RIVERSIDE – WESTBOUND

1 WB



2 EB

MT. SEYMOUR PKWY. EAST OF RIVERSIDE - EASTBOUND



2 WB

MT. SEYMOUR PKWY. EAST OF RIVERSIDE - WESTBOUND



MT. SEYMOUR PKWY. WEST OF APEX - EASTBOUND

3 EB



MT. SEYMOUR PKWY. WEST OF APEX – WESTBOUND

3 WB