



# Traffic Signal Design Manual

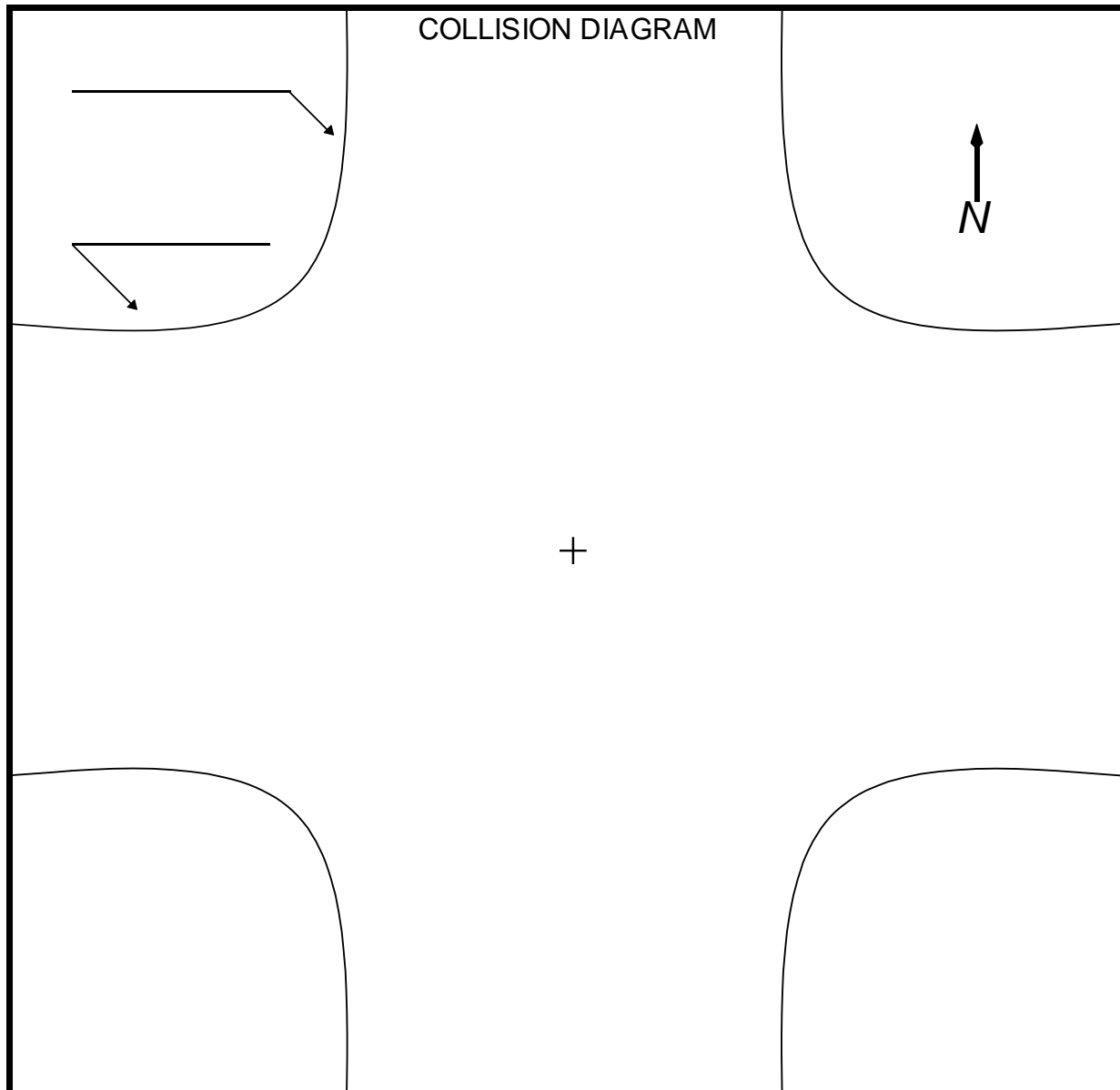
ORIGINATOR Director, Bureau of Highway Operations	2-2-2
CHAPTER 2	Signal Investigation Study
SECTION 2	Data Collection
SUBJECT 2	Crash Records/Analysis

Crash reports provide an indication of relative intersection safety. Intersection crash history **shall** be reviewed for a minimum of a three-year period. To help determine trends, crash data *may* be summarized on a collision diagram or an as-built plan showing crash experience by type, location, direction of movement, severity, pavement condition, time of day, date, and day of week.

To evaluate warrant 7, Crash Experience, the most recent 12-month period **shall** be investigated prior to any other years. If the crashes at the intersection appear to form a pattern, such as night-time crashes, these findings **shall** be documented in the Investigation Study.

Actual police crash reports (MV4000) *should* be reviewed to determine the driver's intention just prior to the crash. This is important in determining which crashes are susceptible to correction by a traffic signal.

Any improvements or changes to the intersection, which have been completed during or after the three-year period in which crashes are reported, **shall** be fully documented. It is important to note that a change *may* include "negative" improvements such as a driveway addition or new traffic generator. A comparison **shall** be made to the crashes before and after any such improvement or change to determine its effects.



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	INDICATE FOR EACH ACCIDENT
←	MOVING VEHICLE	←	HEAD ON	1) DATE & TIME 2) WEATHER & PAV'T SURFACE (IF UNUSUAL CONDITION EXISTED) 3) 4) 5)
←→	BACKING VEHICLE	←	SIDE SWIPE	
←- - - -	PEDESTRIAN	←	OFF ROAD	
▭	PARKED VEHICLE	←	LEFT TURN	
□	FIXED OBJECT	←	RIGHT ANGLE	
△	FATAL ACCIDENT			
○	INJURY ACCIDENT			
←	REAR END			

INTERSECTION OF: \_\_\_\_\_ & \_\_\_\_\_

FROM: \_\_\_\_\_ TO: \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_