



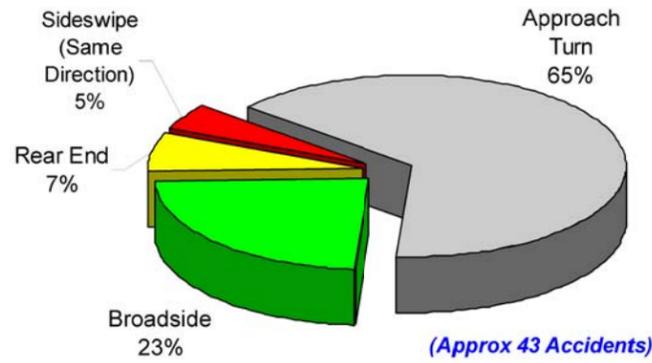
### *C-470 and Broadway Interchange*

An accident diagram as well as charts showing the accident type distribution profile for the interchange intersections as well as the ramps and cross road is shown on the following page.

Approach turn type collisions were prevalent at the Broadway interchange. Both north and south ramp intersections exhibited these collisions during the study period. If not already implemented, fully protected left turn intervals for the north and southbound Broadway to C-470 left turn movements should be considered at both ramp intersection signals. Additionally, we note rear-end collisions occurring with moderate frequency in the channelized right turn lanes from the freeway off ramps to north & southbound Broadway. Again, these are generally congestion related typically occurring during peak volume hours. Provision of extended right turn acceleration lanes on Broadway, if practical, may be considered to eliminate some of these rear-end collisions. An occasional north or southbound vehicle on Broadway does not observe or disregards a red signal indication at the ramp intersection which generates a broadside collision potential. Improving the conspicuity of the traffic signal indications or minor extension of the signal change interval may be considered as an accident countermeasure for this accident type. This interchange currently carries relatively high traffic volume. This is acknowledged in the present double left turn lane configuration. Increasing the traffic capacity throughout this interchange may be considered in conjunction with improvement planning for mainline C-470.

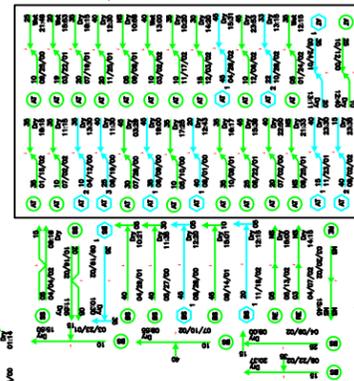
# C-470 & Broadway Interchange

**Accident Types at Broadway Interchange North Ramp Intersection**

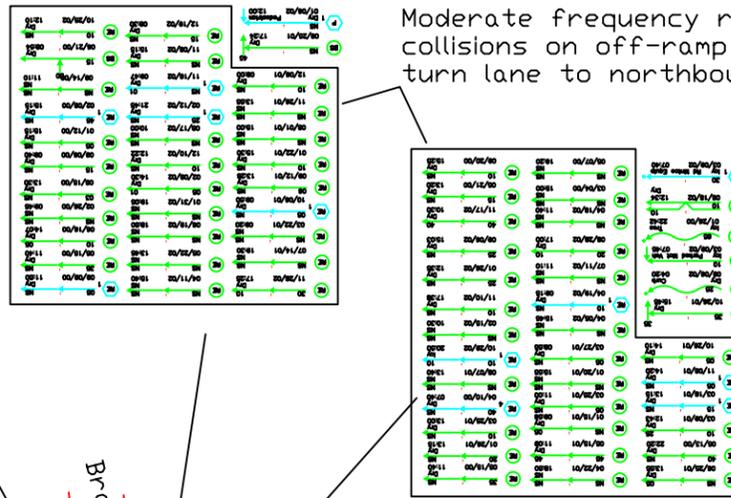


(Approx 43 Accidents)

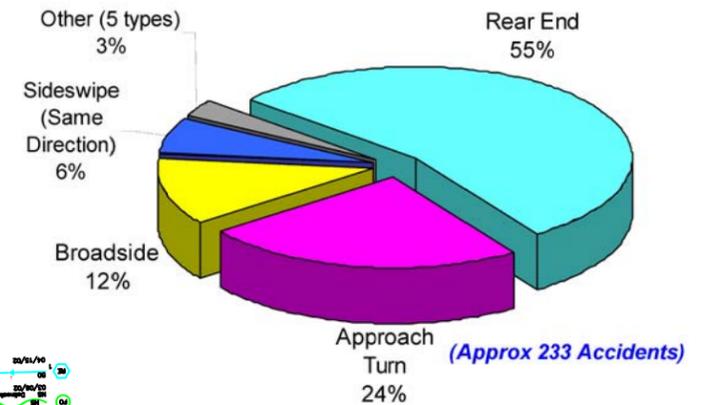
Significant approach turn collision problem at north ramp intersection



Moderate frequency rear-end collisions on off-ramp & right turn lane to northbound

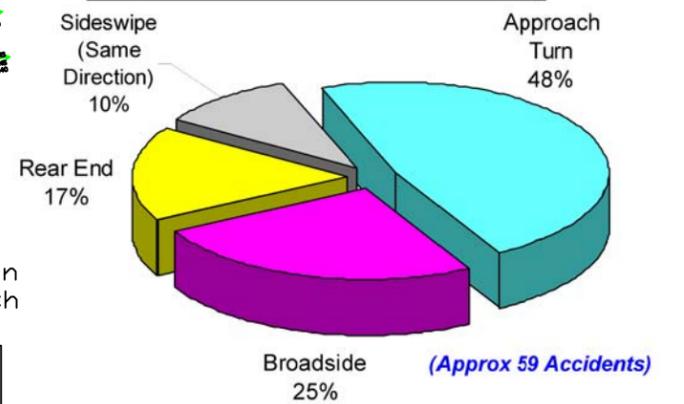


**Accident Types at Broadway Interchange Ramps & Crossroad Only**



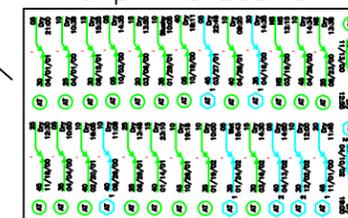
(Approx 233 Accidents)

**Accident Types at Broadway Interchange South Ramp Intersection**

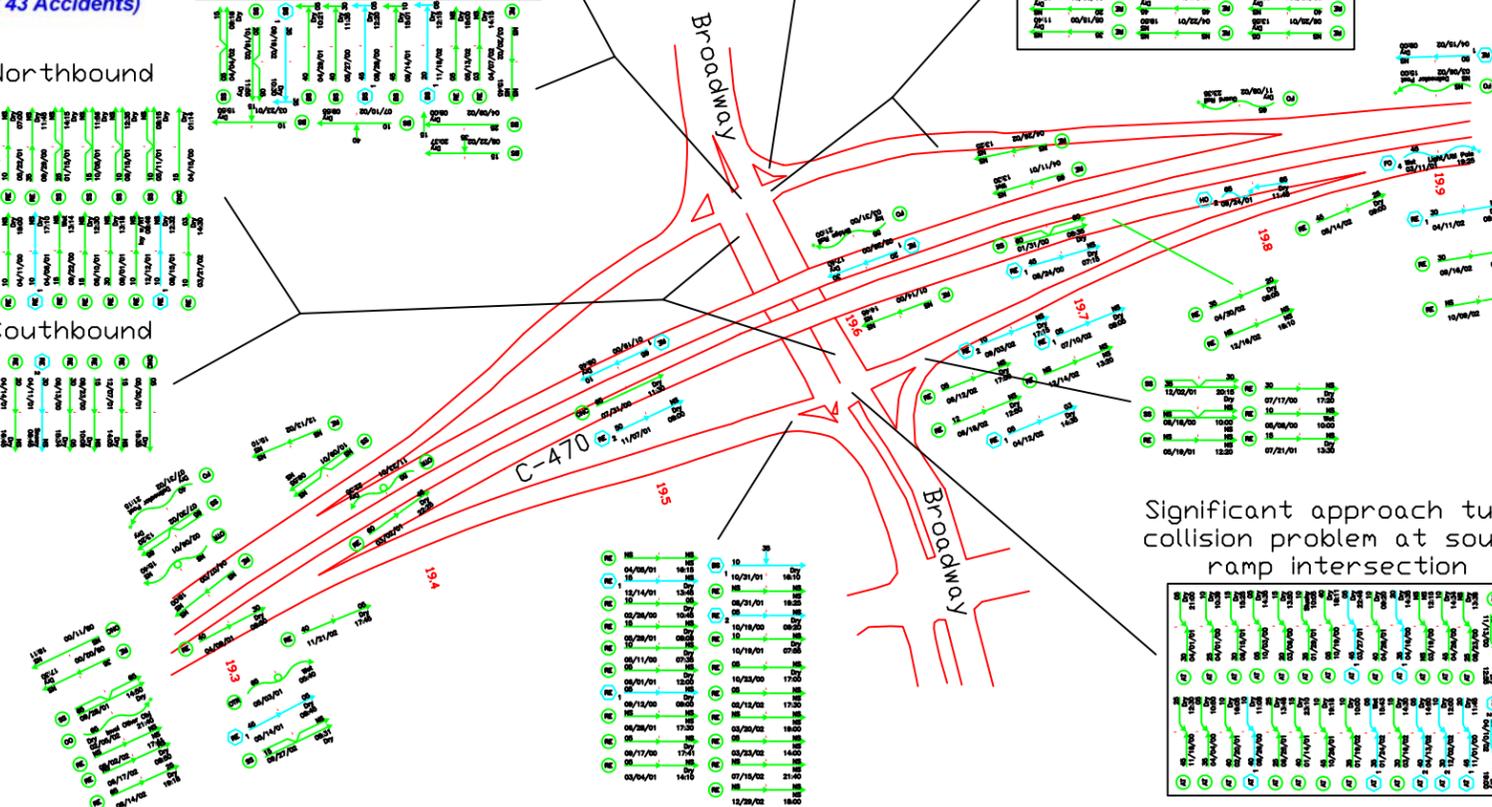
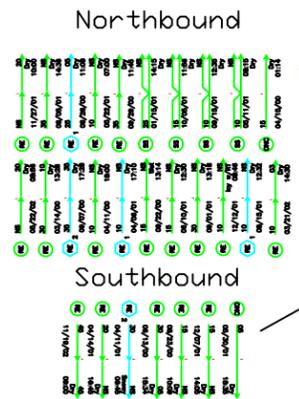
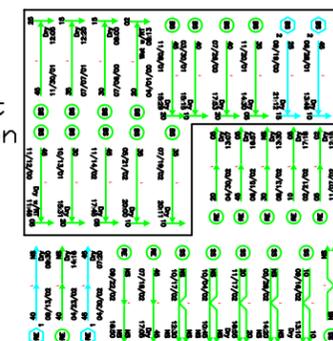


(Approx 59 Accidents)

Significant approach turn collision problem at south ramp intersection



Moderate Frequency Broadside collisions at south ramp intersection



### *C-470 and University Blvd. Interchange*

An accident diagram as well as charts showing the accident type distribution profile for the interchange intersections as well as the ramps and cross road is shown on the following page.

Over 150 accidents were detected in the University Blvd. interchange area during the 3 year study period. We note an approach-turn collision history at the north ramp intersection. These crashes involve vehicles turning left from northbound University to the westbound C-470 on-ramp colliding with southbound vehicles on University. Protected only left turn phasing has been implemented recently at both north and south ramp intersections. This change has moderated the incidence of the approach-turn type collisions.

As with the Broadway interchange, rear-end collisions are noted in the channelized right turn lanes from the westbound freeway off ramps to northbound University. Extension of the right turn acceleration lanes on northbound University, if practical, may be considered to mitigate rear-end collision occurrence here.