

Drop-off/Pick-up Improvements and Other Carson MS (on-campus)

Summary

At Carson Middle School, the drop-off/pick-up loop will be improved with the addition of a marked and signed right side lane to help restrict vehicles to a single lane, reducing the unsafe condition that now exists when vehicles drop off and pick up three across and students walk in front of other vehicles. A divider curb will be installed to separate the drop-off/pick-up lane exit from the special services bus entry. Standard drop-off/pick-up signs will be placed for drop-off/pick-up lanes created by Carson City Public Works along King Street, in order to reduce congestion in the main drop-off/pick-up area on campus. New signs will be added at the main bus entrance to restrict traffic at specified times.

Improvement of Drop-off/Pick-up Loop

The drop-off/pick-up loop, which was changed during the campus reconstruction, was seriously mis-designed. It creates hazards for pedestrians, for students going to and from vehicles, and to vehicles. The width of the loop encourages drivers to pass one another and to drop off and pick up students at random places within the loop. The one curb drop area is large enough for only one vehicle. The parking spaces on the right side of the loop are used by parents dropping off and picking up, which then back into the lane, creating additional hazards to pedestrians and students. However, complete reconstruction of the drop-off/pick-up loop is not proposed at this time. Instead, some improvements will be made.



A drop-off/pick-up lane will be painted to keep drop-off/pick-up traffic to the right of the loop. It will be 10 feet (3m wide) and will be marked with a yellow line.

The exit will be reconfigured to separate the traffic exiting from the drop-off/pick-up loop from special services buses entering the bus loop parallel to King St. A divider curb (permanent or temporary) will be installed to separate the traffic. Pavement arrows and signing (MUTCD R5-1 “Do Not Enter” mounted on the back of dual stop signs) will be used to indicate the drop-off/pick-up loop exit. Pavement arrows and signs (“School Bus Only” with specified times) will be used to indicate the entrance to the bus loop.

Implementation of this project will free up the crossing guard who is currently assigned to traffic management, for reassignment to the South Richmond crosswalk over King St.

Cost

traffic paint, yellow, about 300 linear feet, at \$3/ft	900
traffic/curb paint, yellow, about 50 feet, at \$4/ft	200
traffic/curb paint, red, about 300 linear feet, at \$4/ft	1200
MUTCD R1-1 “Stop”, 30x30, 2 at \$83	400
MUTCD R5-1 “Do Not Enter” symbol, 30x30, 2 at \$95	200
“School Bus Only”, 18x24, 1 at \$33, time placard 7:00–2:30, 1 at \$32	200
Drop-off/Pick-up Zone sign set of two - 12x18, 1 at \$64	200
divider curb, about 50 feet at \$10/ft	500
<i>subtotal</i>	\$3,800

Drop-off/Pick-up Zone Signs

The curbs adjacent to the school (on the school side of the street) on King St will become designated drop-off/pick-up zones with yellow curbs. From North Richmond to the South Richmond crosswalk is about 125 feet, and from the drop-off/pick-up loop exit to the bus loop entrance is about 325 feet. The curbs will be painted and maintained by Carson City Public Works, but the associated signing will be purchased, installed, and maintained by Carson City School District. Curbs will remain red or be painted red to comply with the 20 foot crosswalk, 15 foot fire hydrant, and 5 foot driveway offsets specified in NRS 484.399.



The standard drop-off/pick-up zone signs (shown on the attached sign sheet) will be installed about every 50 feet along yellow curbs, which is four sign sets for the perimeter. The “pull forward” sign will not be posted on the short section, along King between the South Richmond crosswalk and the drop-off/pick-up loop exit. On the two long sections, two drop spots will be used, with painted triangles at the correct ending spots and arrow signs. This drop spot standard is separately documented in the Drop-off/Pick-up Zones document.

Cost

Drop-off/Pick-up Zone sign set of two - 12x18, 4 at \$64	800
<i>subtotal</i>	\$800

Reserved and Visitor Parking Spaces

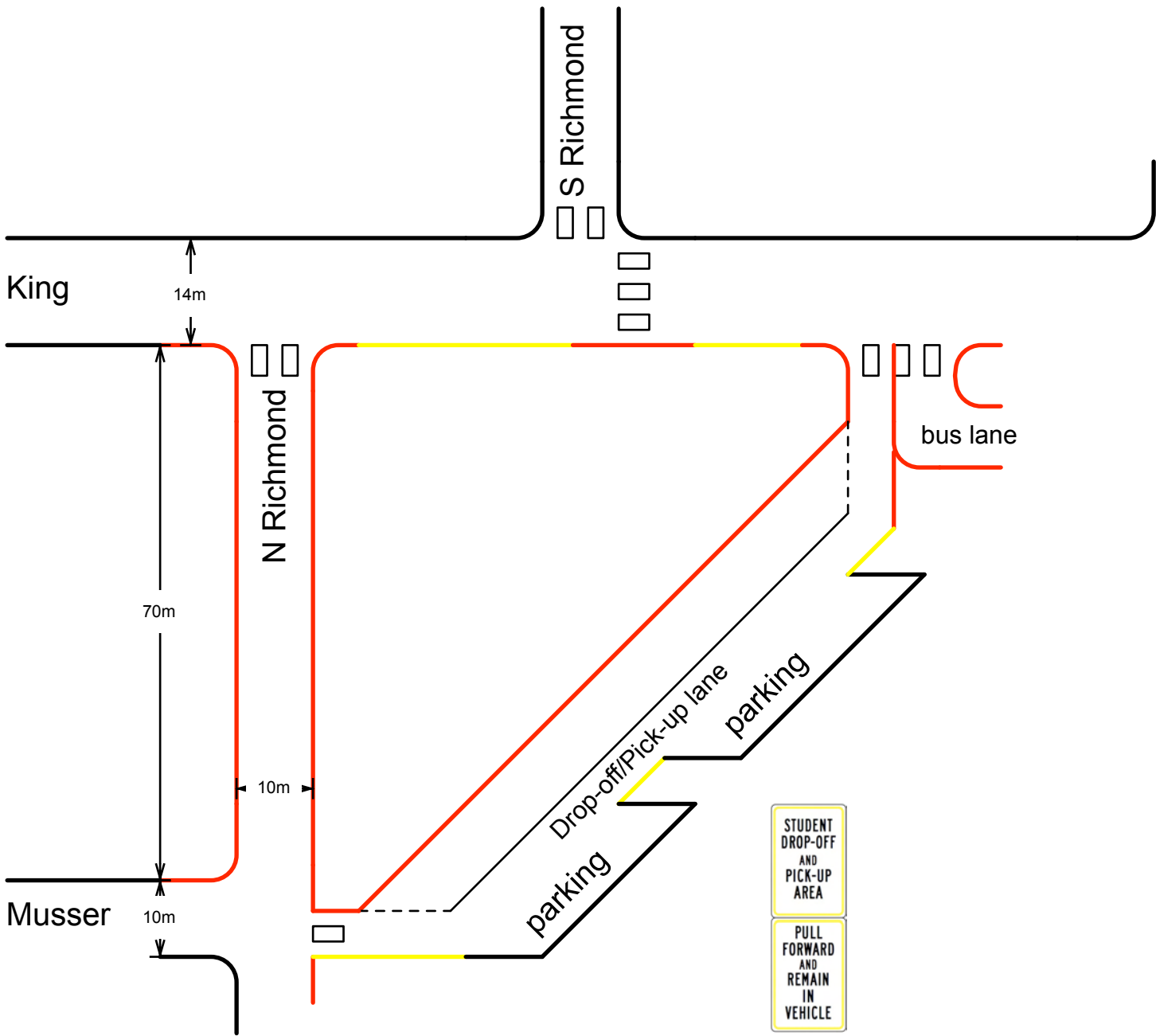
Three of the visitor spaces in the parking area along King St will be converted to “Reserved Parking Only” spaces, and the “Visitor Parking” pavement markings painted over. These will provide parking for top administrative staff near the school entrance. This item will not be funded by the SRTS program.

Bus Loop Entrance

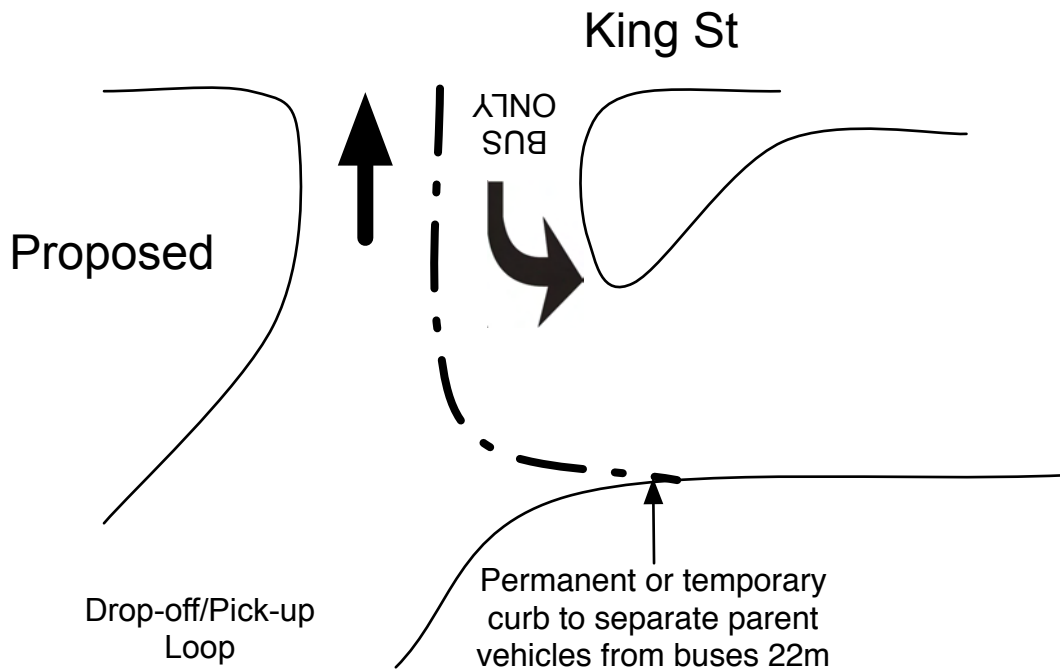
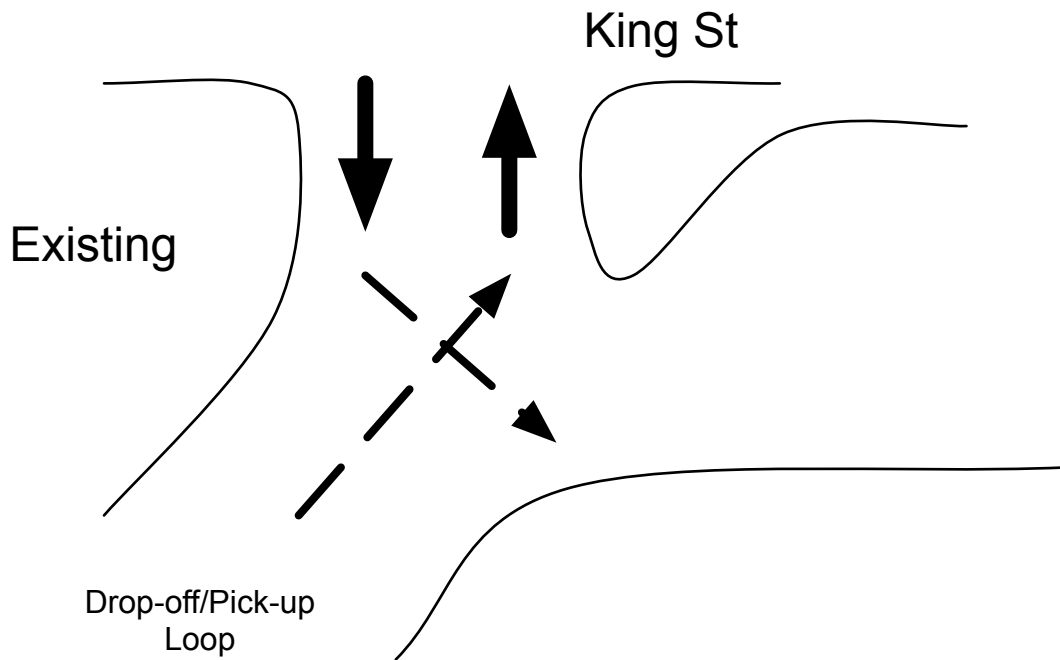
The entrance to the main bus loop entrance on the west side of the school building is problematical because it requires a crossing guard assigned solely to manage traffic. An engineering solution to this problem can be designed so as to free up the crossing guard for crosswalk duty, but it will take additional study and research. In the meanwhile, new “School Bus Only” with a time placard will be installed on both sides of the bus loop entrance.

Cost

“School Bus Only”, 18x24, 2 at \$33, time placard 7:00–2:30, 2 at \$32	400
<i>subtotal</i>	<i>\$400</i>
<i>Total Cost</i>	<i>\$5,000</i>



Drop-off/Pick-up Loop and Bus Lane Conflict Carson MS

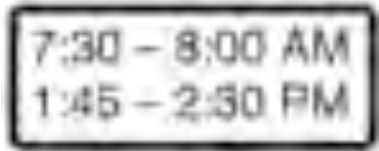


Proposed Signs at Carson MS (On-Campus)

N1

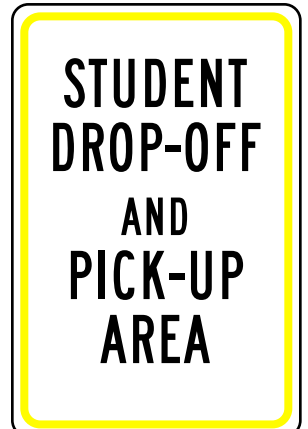


N2



Custom sign: replace old sign with new 18x24 on both sides of entrance driveway, plus MUTCD S4-1p with split times; same at entry for special services bus

P1



P2

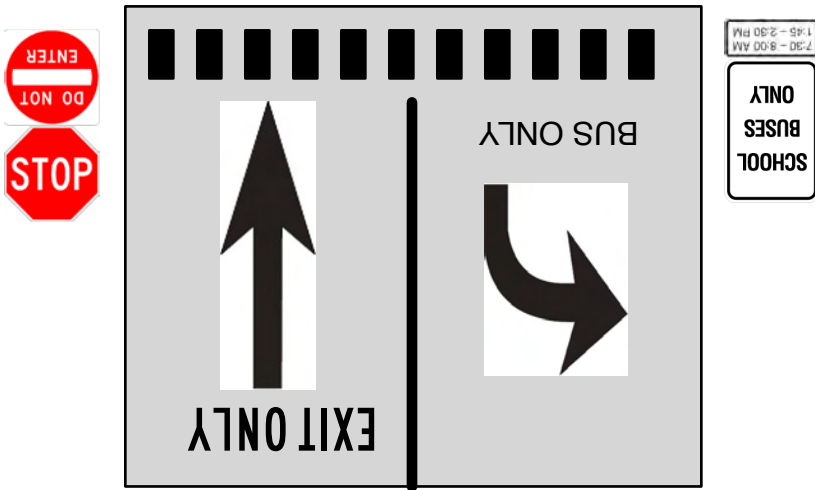


Q

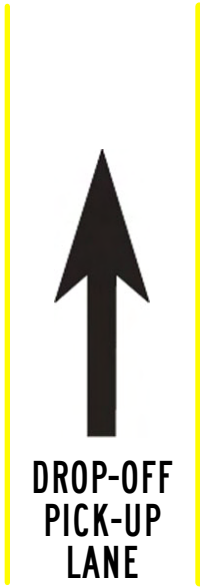


custom sign

Pavement Markings at Carson MS (on-campus)



Use: at the exit of drop-off/pick-up loop;
large 60 inch arrow, and "Exit Only"



Use: at the beginning of
the drop-off/pick-up lane
in the drop-off/pick-up
loop