Mobile Drive-Thru Testing Conceptual Plan

Recommendations for selecting and setting up a mobile testing facility
- Locate access off of a road with multiple lanes in each direction in case queuing backs up onto the road
- Focus on locations with a large unused parking lot (such as stadiums, campuses, etc. that are not currently in use)
- If parking lot is still in use, parking area should be clearly divided between users and test traffic
- Have different entrances dedicated for ingress and egress
- CDC requires “escape” lanes which allow vehicles who arrive without an appointment to exit the facility
- Consider existing curbed islands and how it may assist with, or interfere with, desired vehicle routes
- While multiple testing stations may be desirable, fewer drive-lanes feeding these multiple stations is also desirable
- Replicate how most airport security areas utilize a single, longer, snaking line which feed multiple x-ray machines

Approximate service time calculations (assumes 12 min. per vehicle, 21 stations)
- Concept capacity = 21 vehicles x 5 vehicles/hour = 105 vehicles per hour that could be tested.
- Assume 25 feet per vehicle
- Concept includes ±4,200 feet of total queuing (2 lanes @ ±2,100 feet each) from entry point at street to testing station.
- This allows for 168 vehicles that can queue (4,200 feet / 25 feet)
- Once filled, the last vehicle in the queue would have a ~90-100 minute wait time

LEGEND
- Traffic officers
- Direction of travel
- Exiting traffic
- Traffic control device
- Testing spots
- Check in station
- Medical support area/testing personnel

These conceptual recommendations are provided for informational use only. Local qualified government officials or professionals must determine actual design and operational requirements. Kimley-Horn has no liability related to the use of these documents.

If you are a government agency and/or property owner and need assistance with a more customized analysis or recommendations, please contact your local Kimley-Horn professional, Aaron Nathan (aaron.nathan@kimley-horn.com) or Joe Kaltsas (joe.kaltsas@kimley-horn.com) for more information.