

# LEVEL 1 SCREENING - MAJOR FLAW ANALYSIS SUMMARY

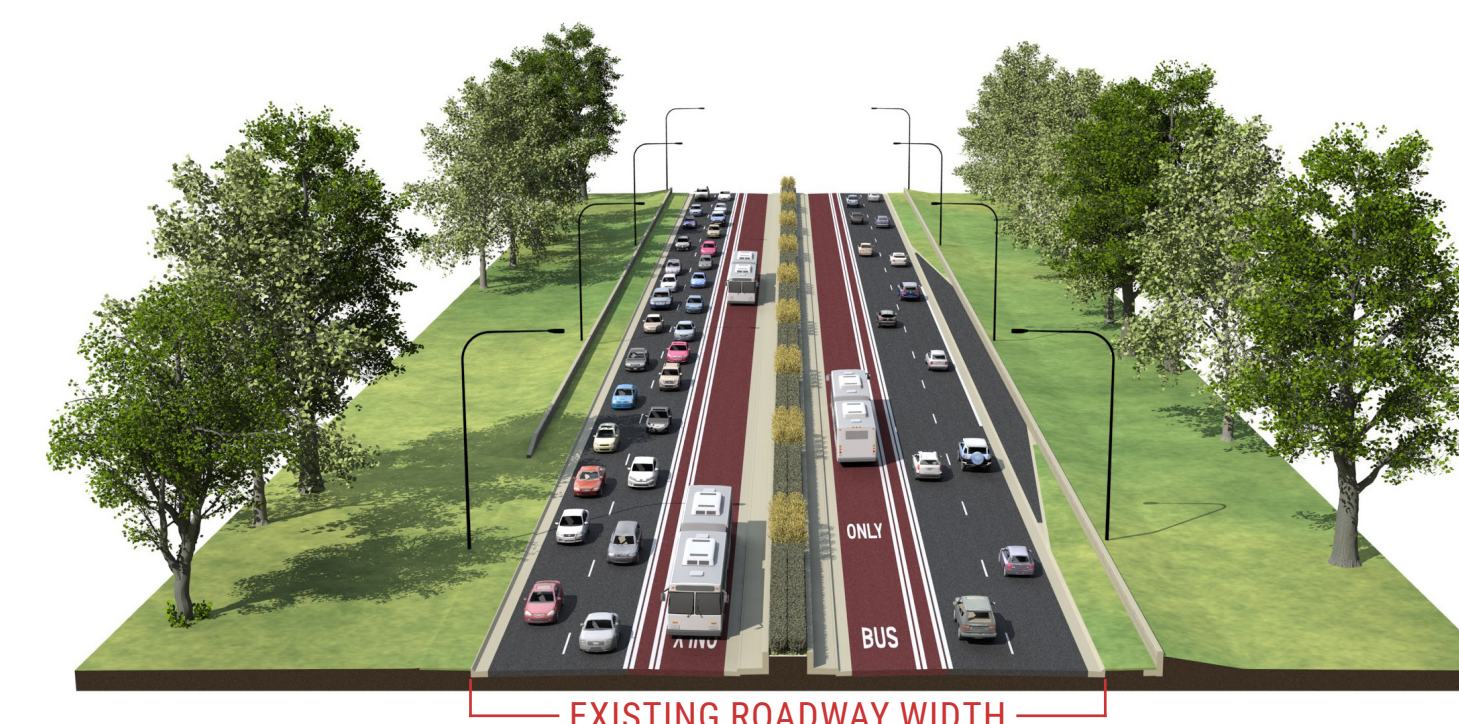
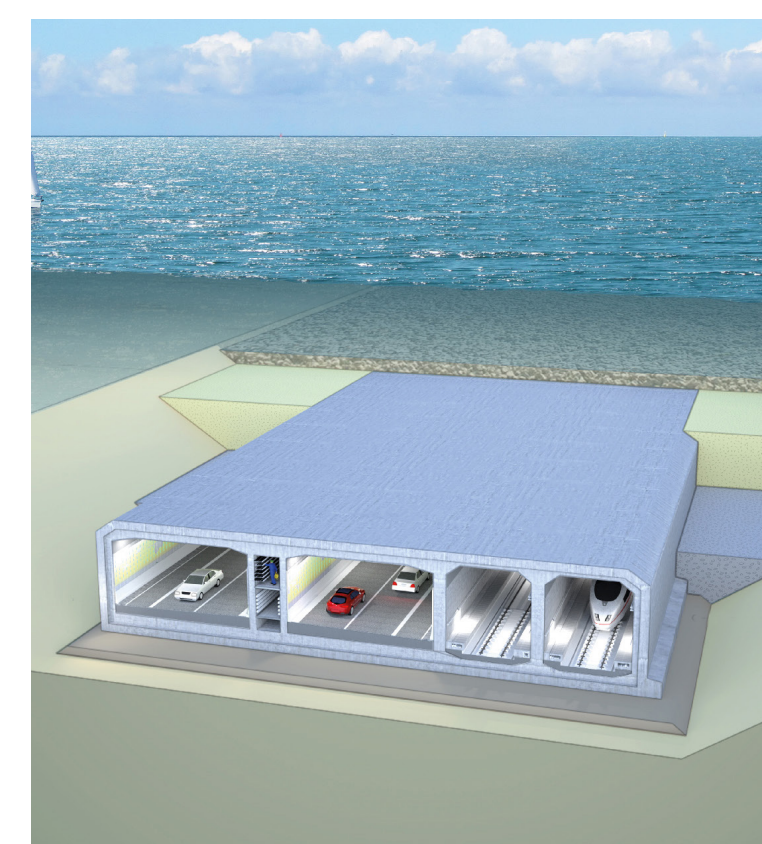
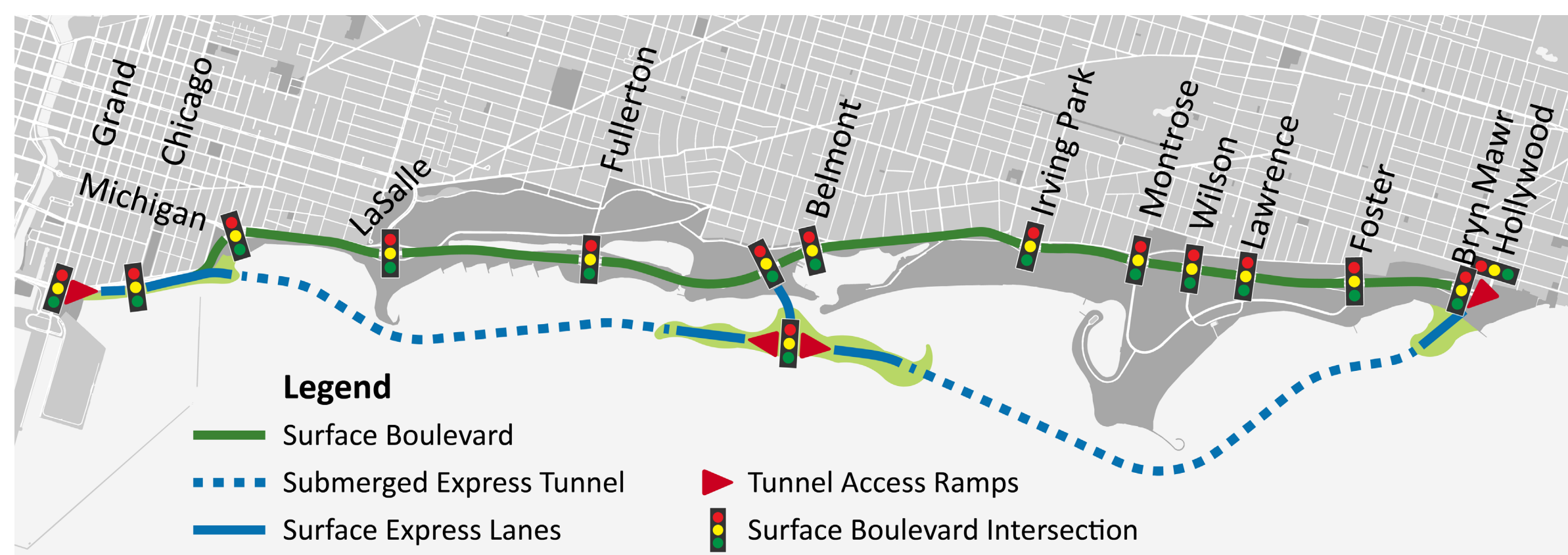
## Submerged Express Tunnel Alternative

- » Primarily serves longer end-to-end travel through corridor (<30% of NDLSD trips)
- » **Surface boulevard with at-grade intersections would carry majority of NDLSD traffic flow**, resulting in reduced overall mobility
- » Concentrates E-W access to tunnel at three locations resulting in impacts to local streets
- » Requires extensive ventilation system to purge auto exhaust and smoke from traffic emergencies via multi-story ventilation buildings at each tunnel portal
- » **Large capital cost (>\$9B)** compared to other alternatives with similar benefits and **would require user fees**
- » **Does not meet project Purpose & Need**

## Land-Based Express Tunnel Alternative

- » Would **require wider transportation footprint** on surface boulevard at tunnel access locations to provide ramps to and from tunnel
- » **Replacement of existing junctions with at-grade intersections on surface boulevard will increase congestion and reduce mobility** for autos and buses that travel through surface boulevard intersections
- » **Requires extensive ventilation system** to purge auto exhaust and smoke from traffic emergencies via 7 pairs of ventilation fan buildings with exhaust stacks along tunnel route
- » **Large capital cost (>\$5B)** compared to other alternatives with similar benefits and **would require user fees**
- » **Does not meet project Purpose & Need**

*Dismissed based on Major Flaws at Public Meeting #3 in July 2017*



Surface Boulevard with Tolled Express Tunnel



Cut and Cover Tolled Express Tunnel