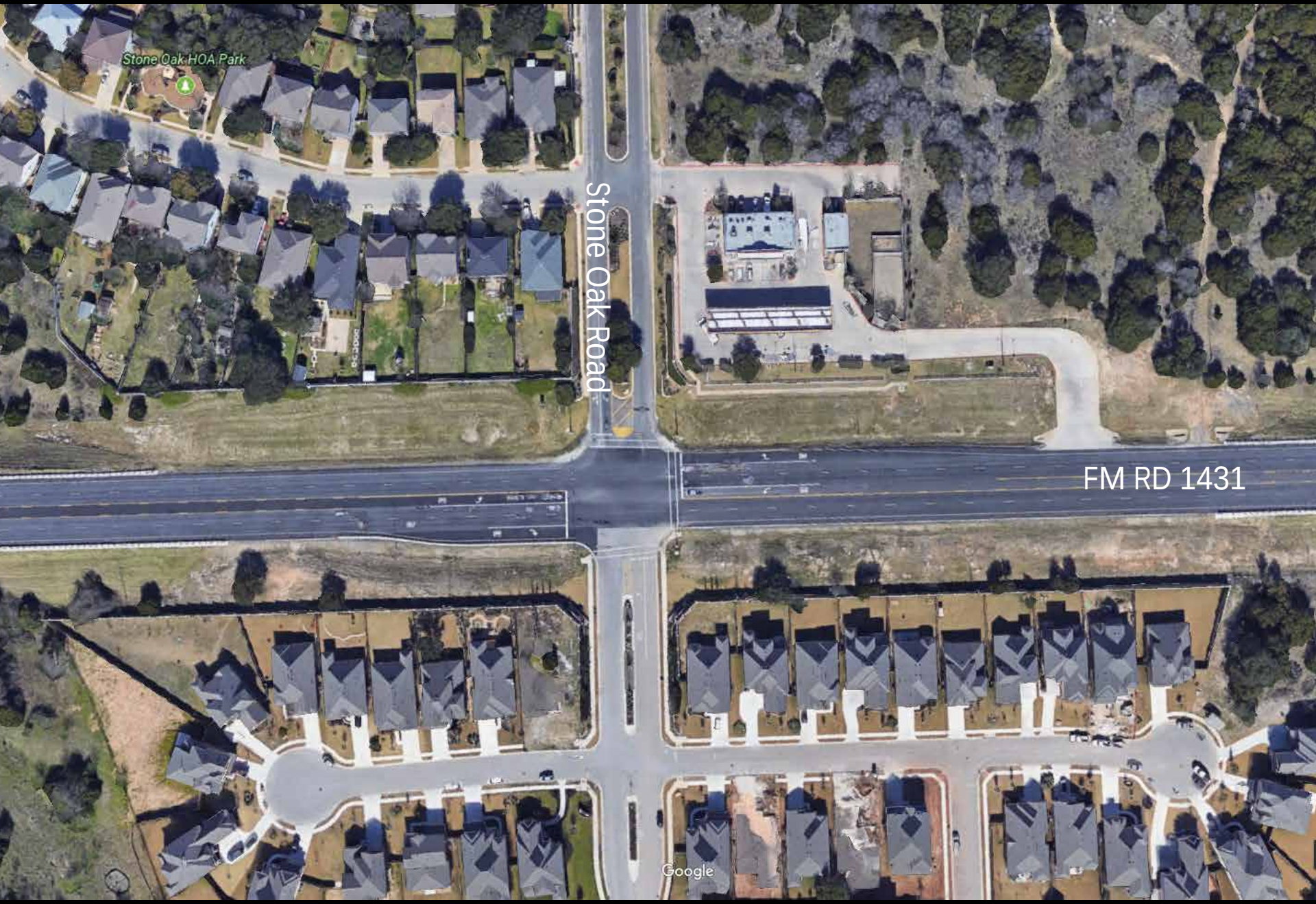
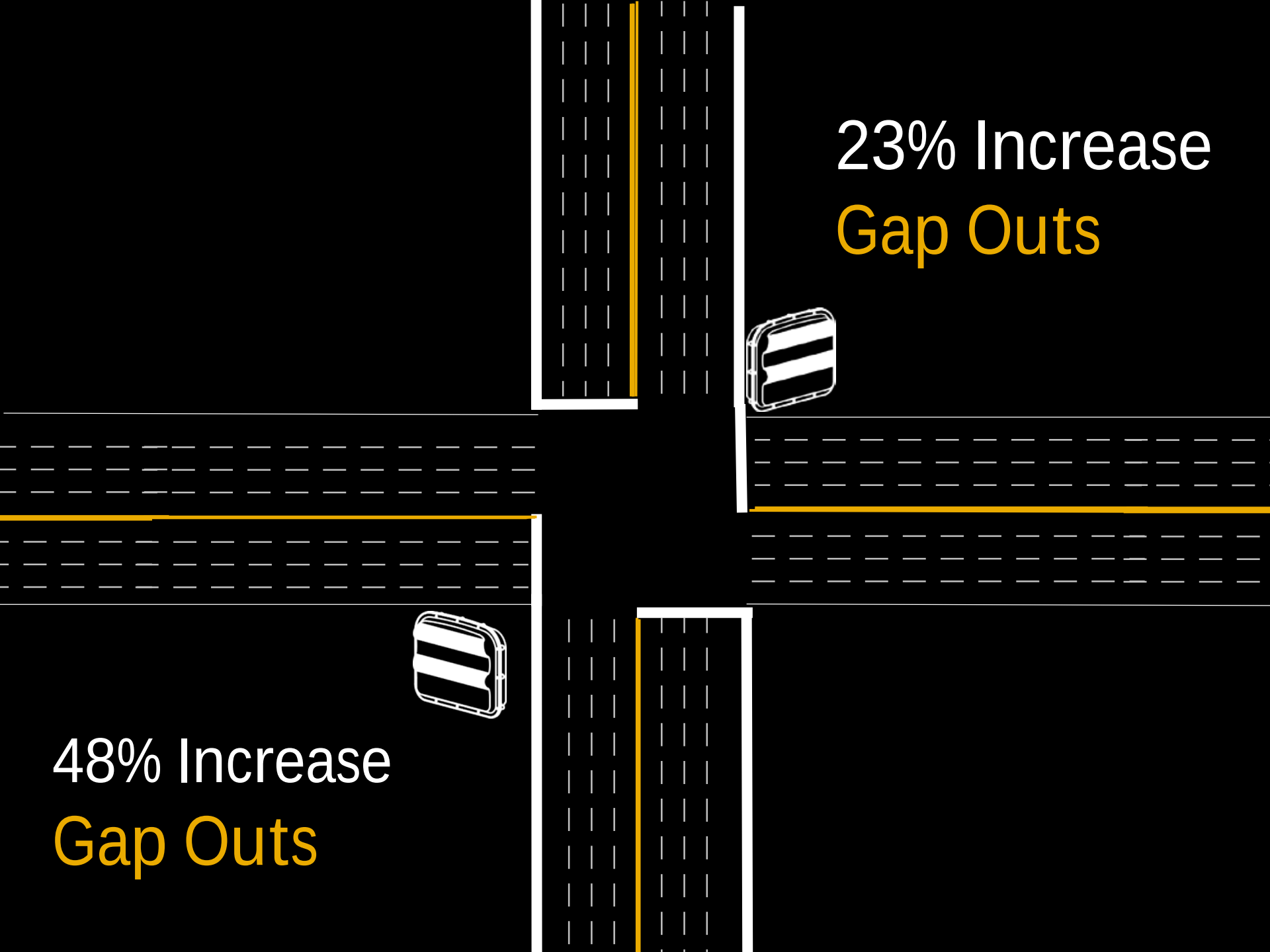
WAVETRONIX

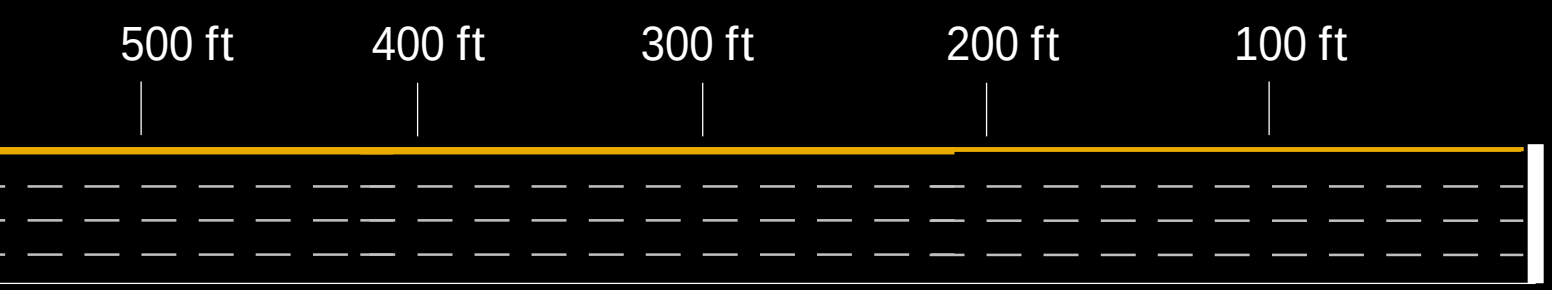

Stone Oak HOA Park
Stone Oak Road
FM RD 1431
Google

Farm to Market Rd
431
Google

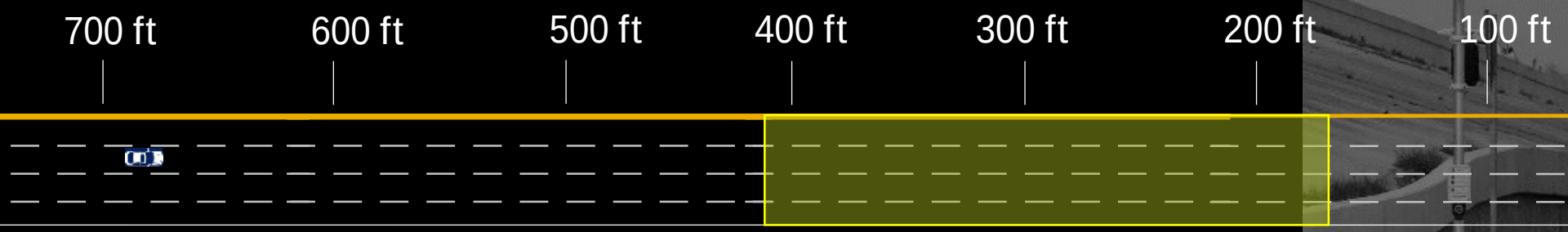

23% Increase
Gap Outs
48% Increase
Gap Outs

Dilemma Zone

$$Dilemma\ Zone = 2.5\ \text{s} - 5.5\ \text{s}$$



$$Dilemma\ Zone = 2.5\ s - 5.5\ s$$



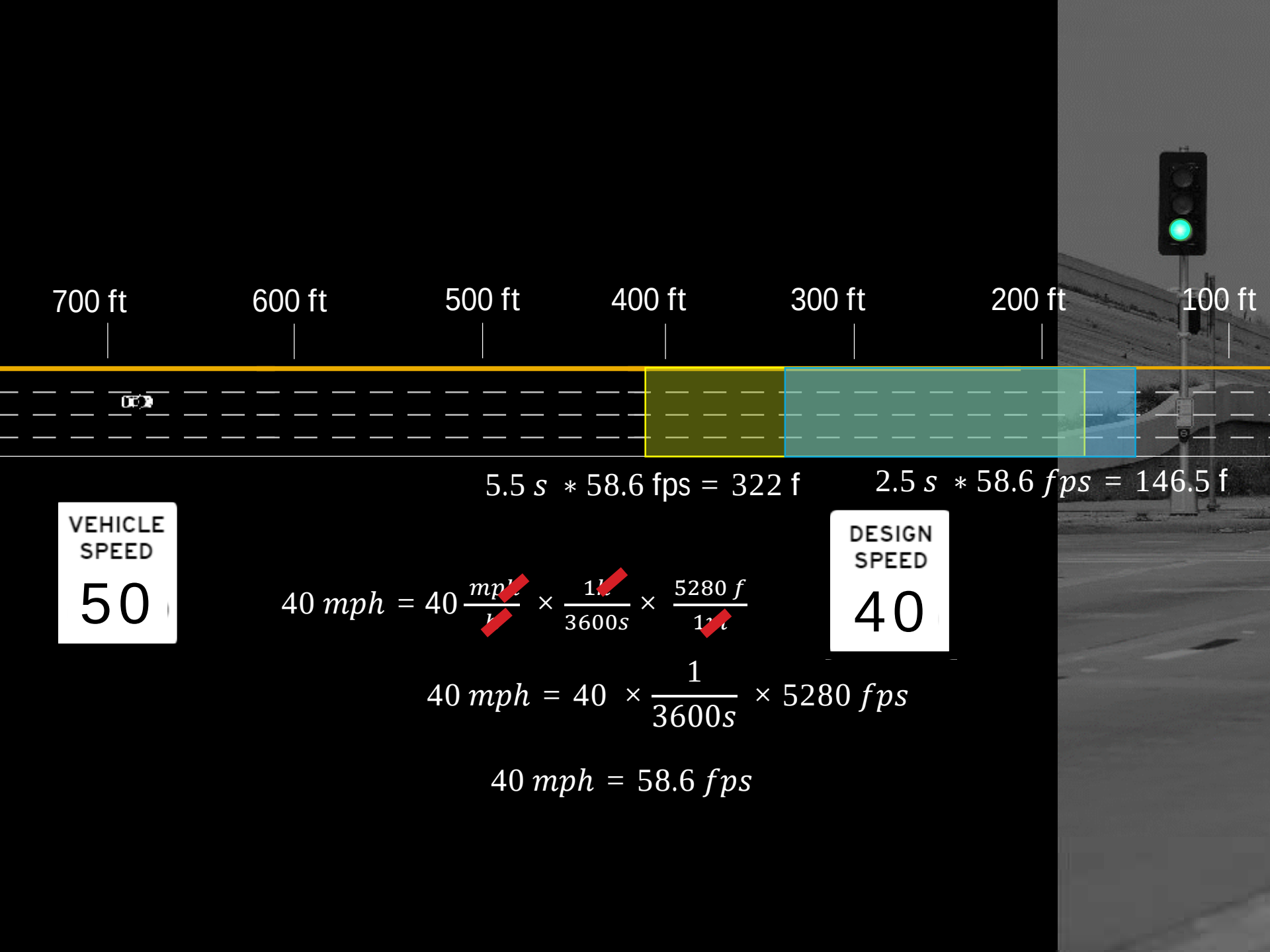
$5.5\ s * 73.3\ \text{fps} = 403\ \text{f}$

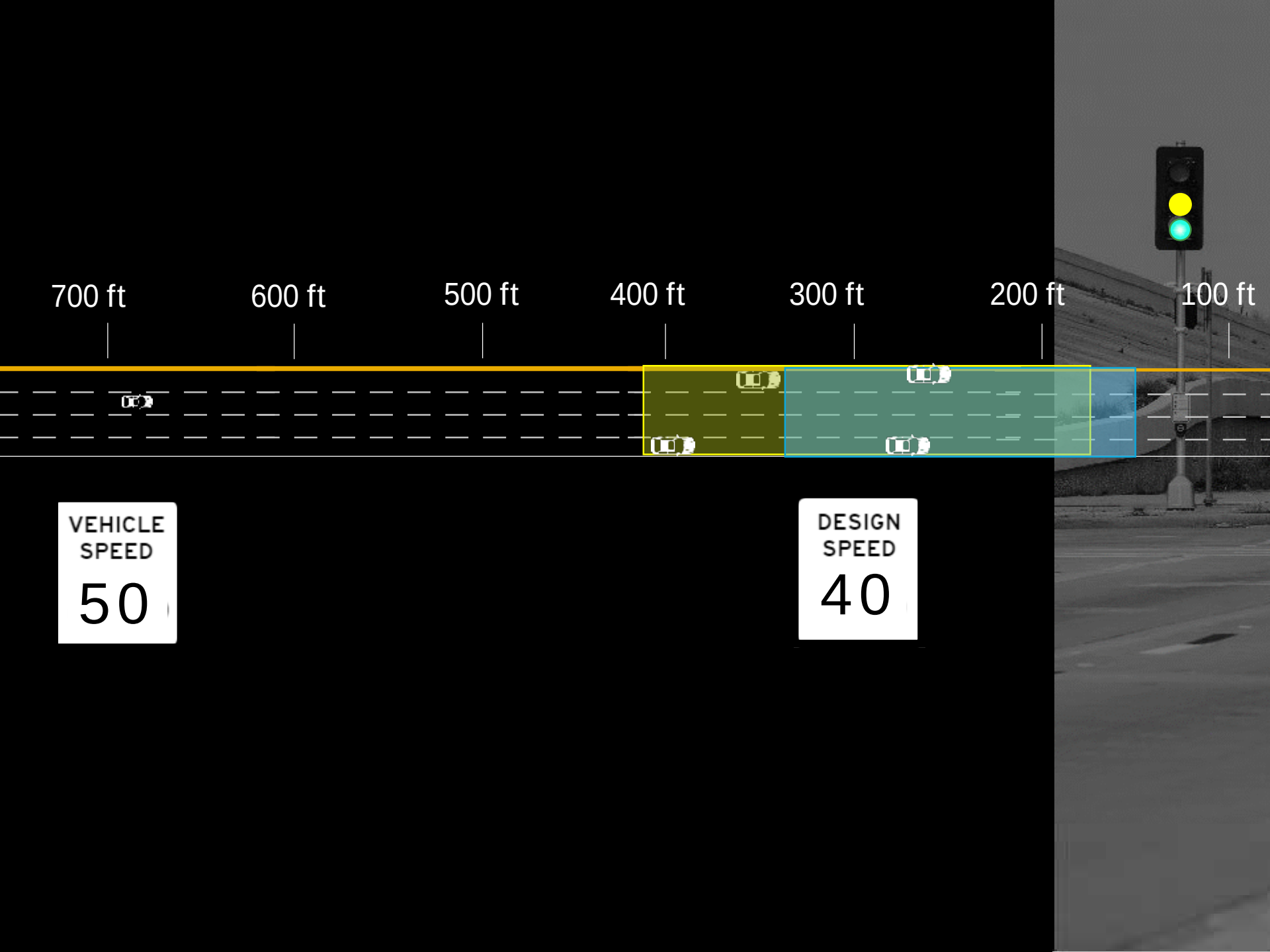
$2.5\ s * 73.3\ fps = 183\ \text{fps}$

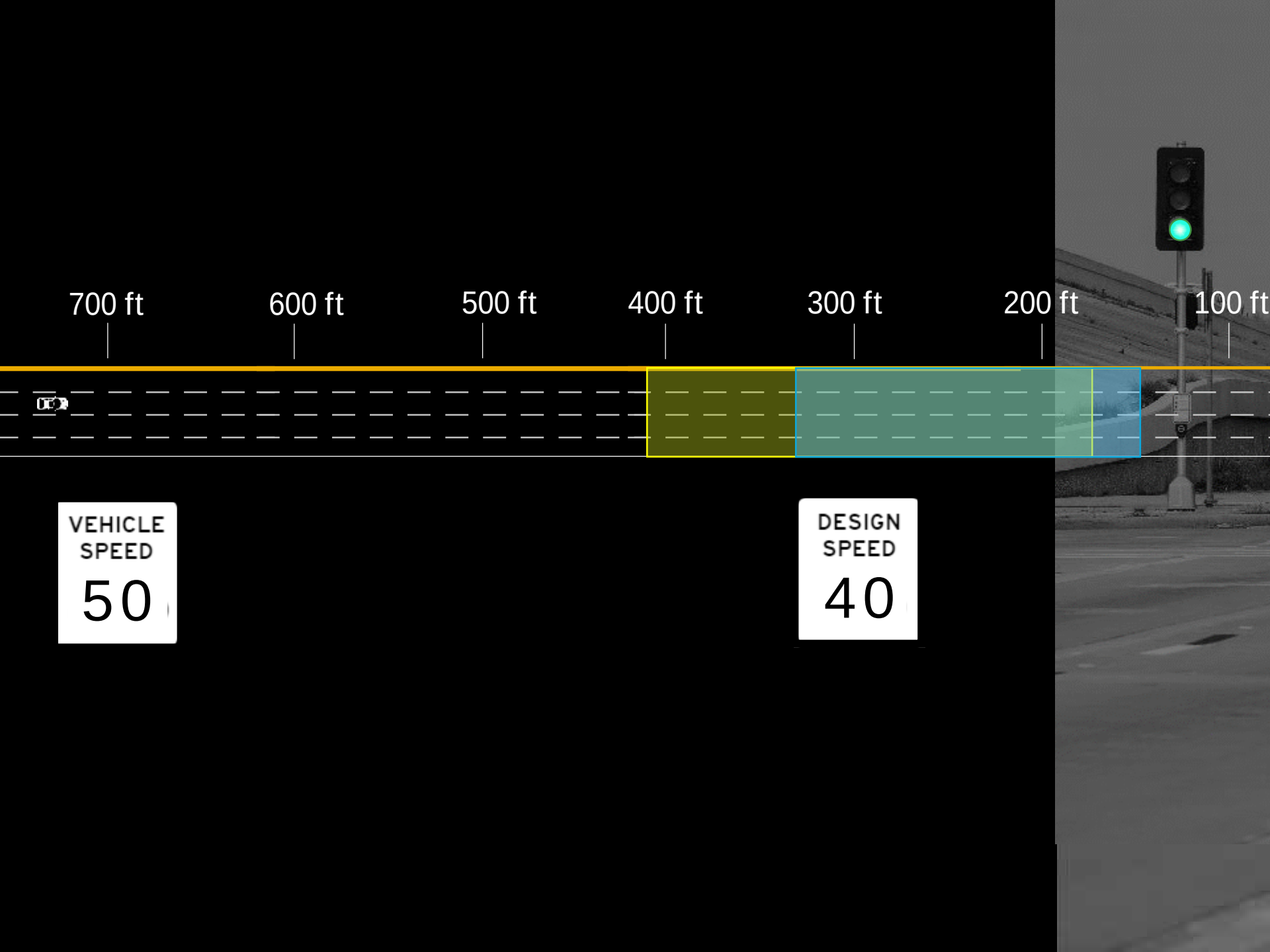
$$50\ mph = 50\ \frac{mph}{h} \times \frac{1h}{3600s} \times \frac{5280\ f}{1ft}$$

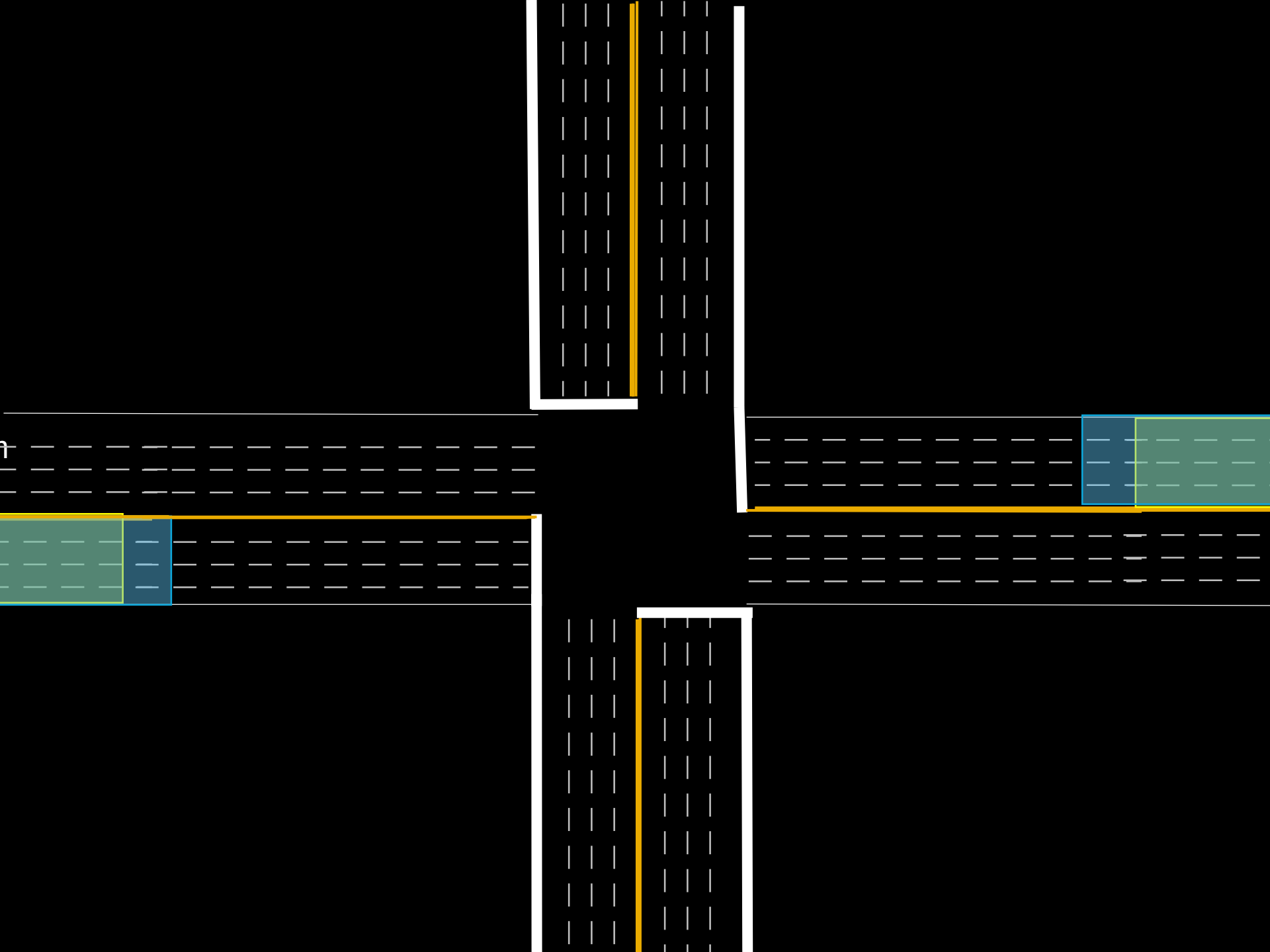
$$50\ mph = 50 \times \frac{1}{3600s} \times 5280\ f$$

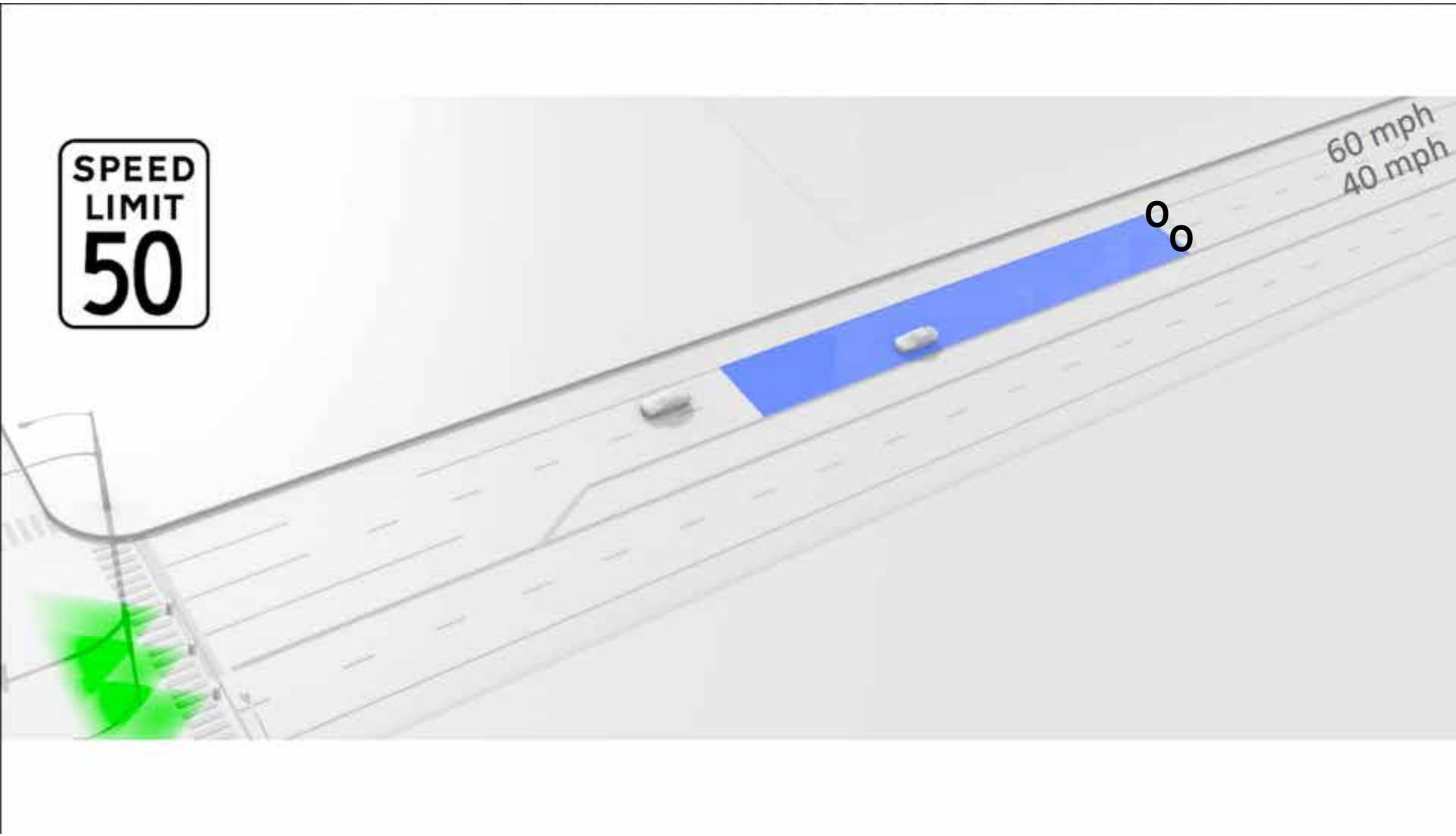
$$50\ mph = 73.3\ f/s$$


700 ft
600 ft
500 ft
400 ft
300 ft
200 ft
100 ft
5.5 s ∗ 58.6 fps = 322 f
2.5 s ∗ 58.6 fps = 146.5 f
VEHICLE SPEED
50
DESIGN SPEED
40
$40\ mph = 40 \frac{mph}{h} \times \frac{1h}{3600s} \times \frac{5280\ f}{1mi}$
$40\ mph = 40 \times \frac{1}{3600s} \times 5280\ fps$
$40\ mph = 58.6\ fps$


700 ft
600 ft
500 ft
400 ft
300 ft
200 ft
100 ft
VEHICLE SPEED
50
DESIGN SPEED
40


700 ft
600 ft
500 ft
400 ft
300 ft
200 ft
100 ft
VEHICLE SPEED
50
DESIGN SPEED
40

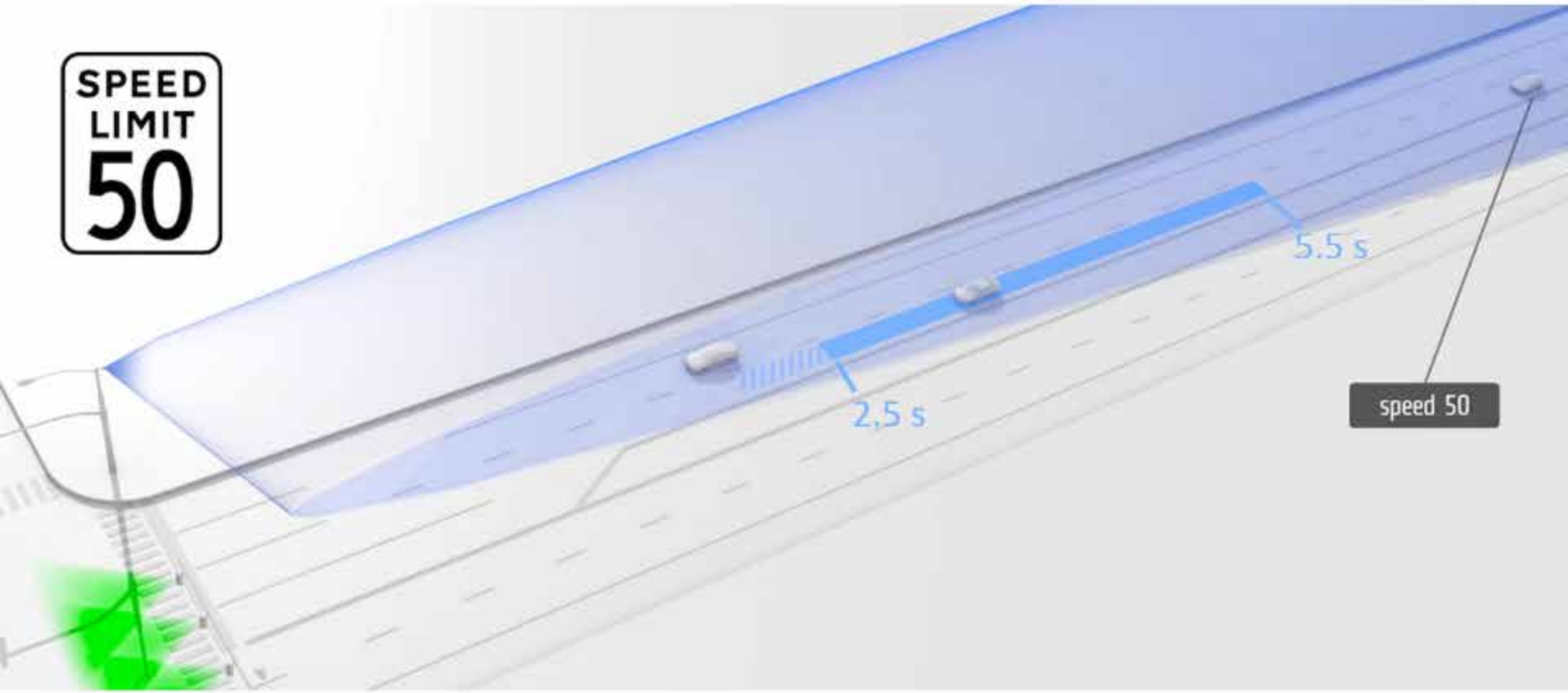


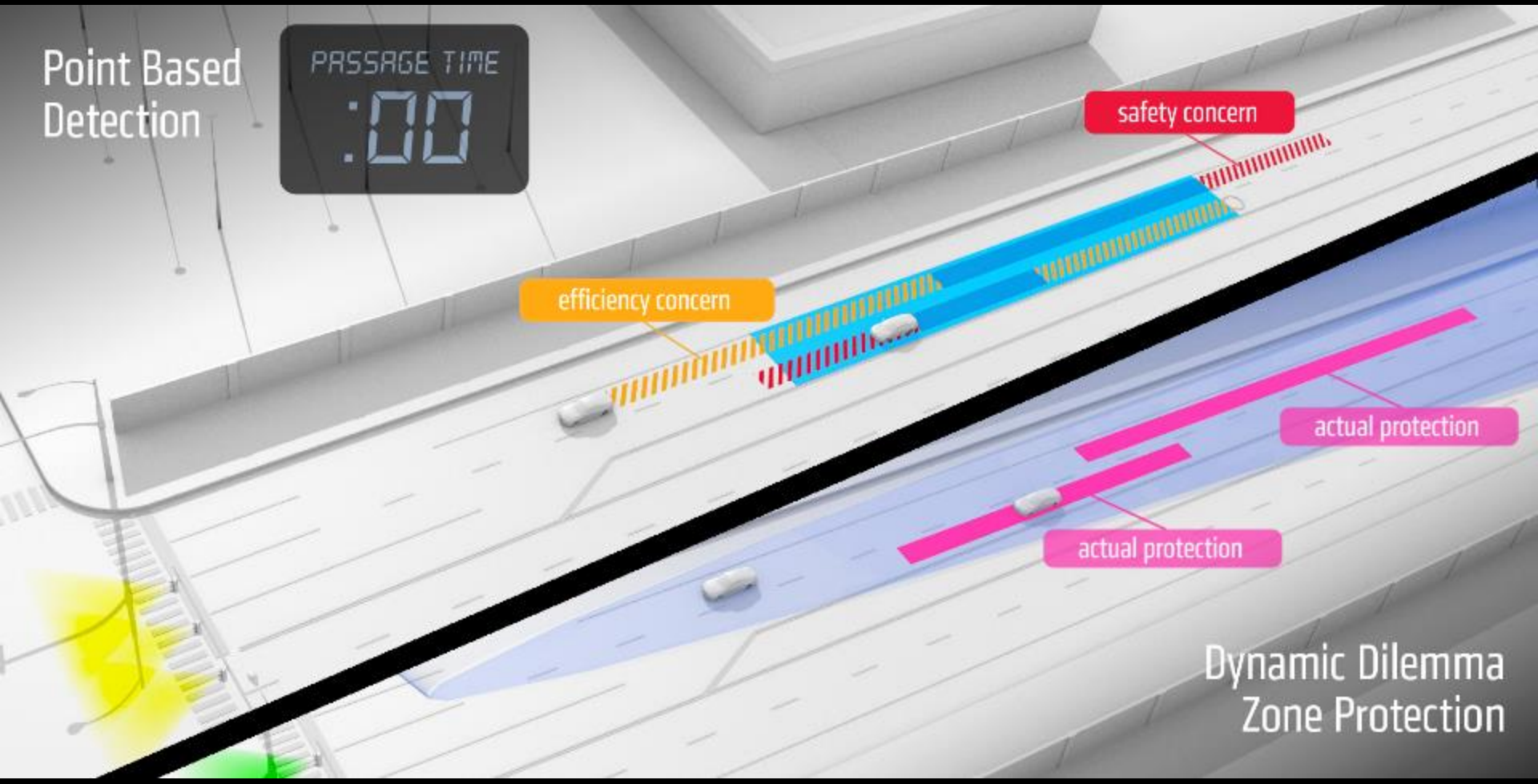

SPEED
LIMIT
50
60 mph
40 mph

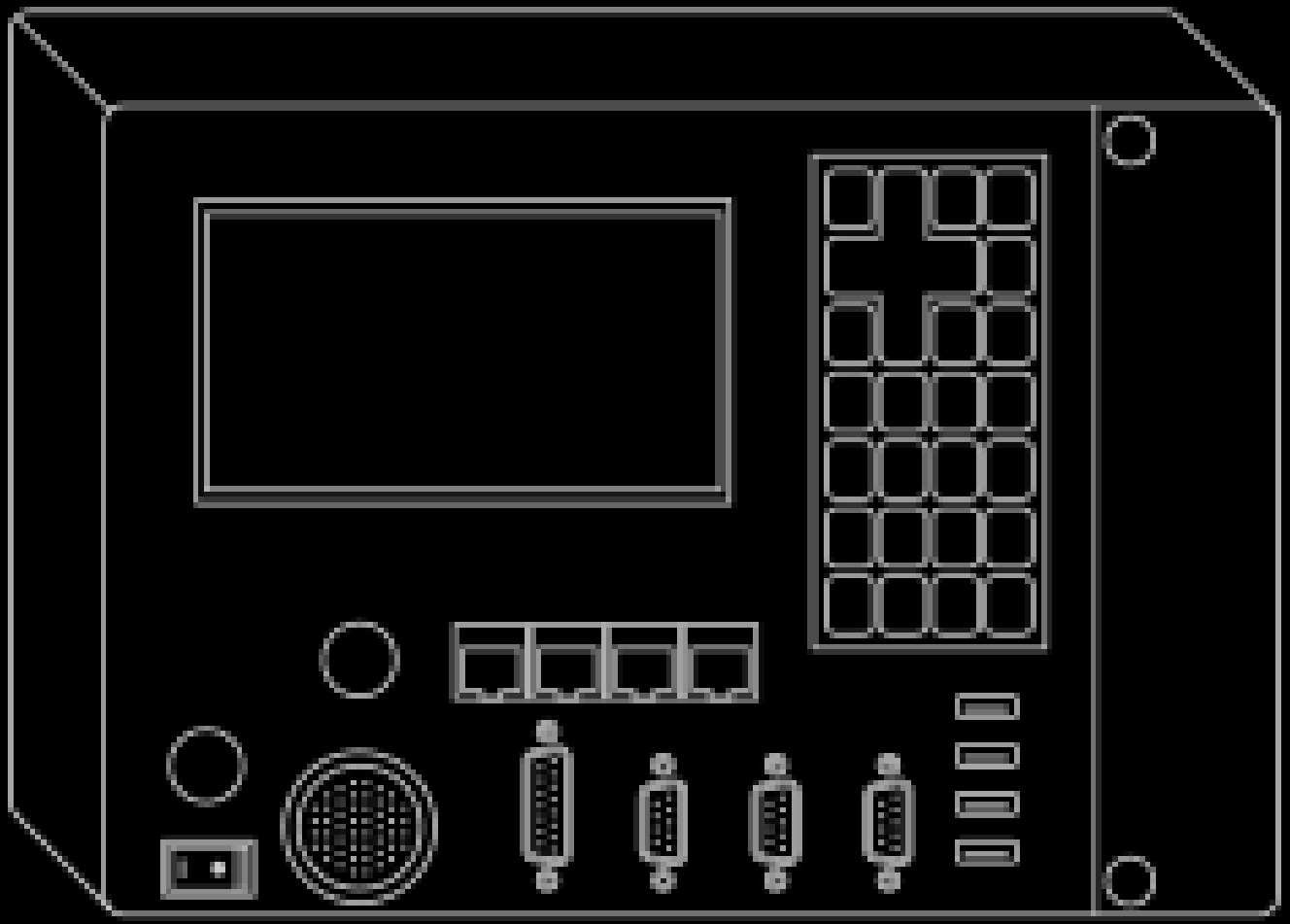
Wide Area Detectors

600’

900’


SPEED
LIMIT
50
2,5 s
5.5 s
speed 50

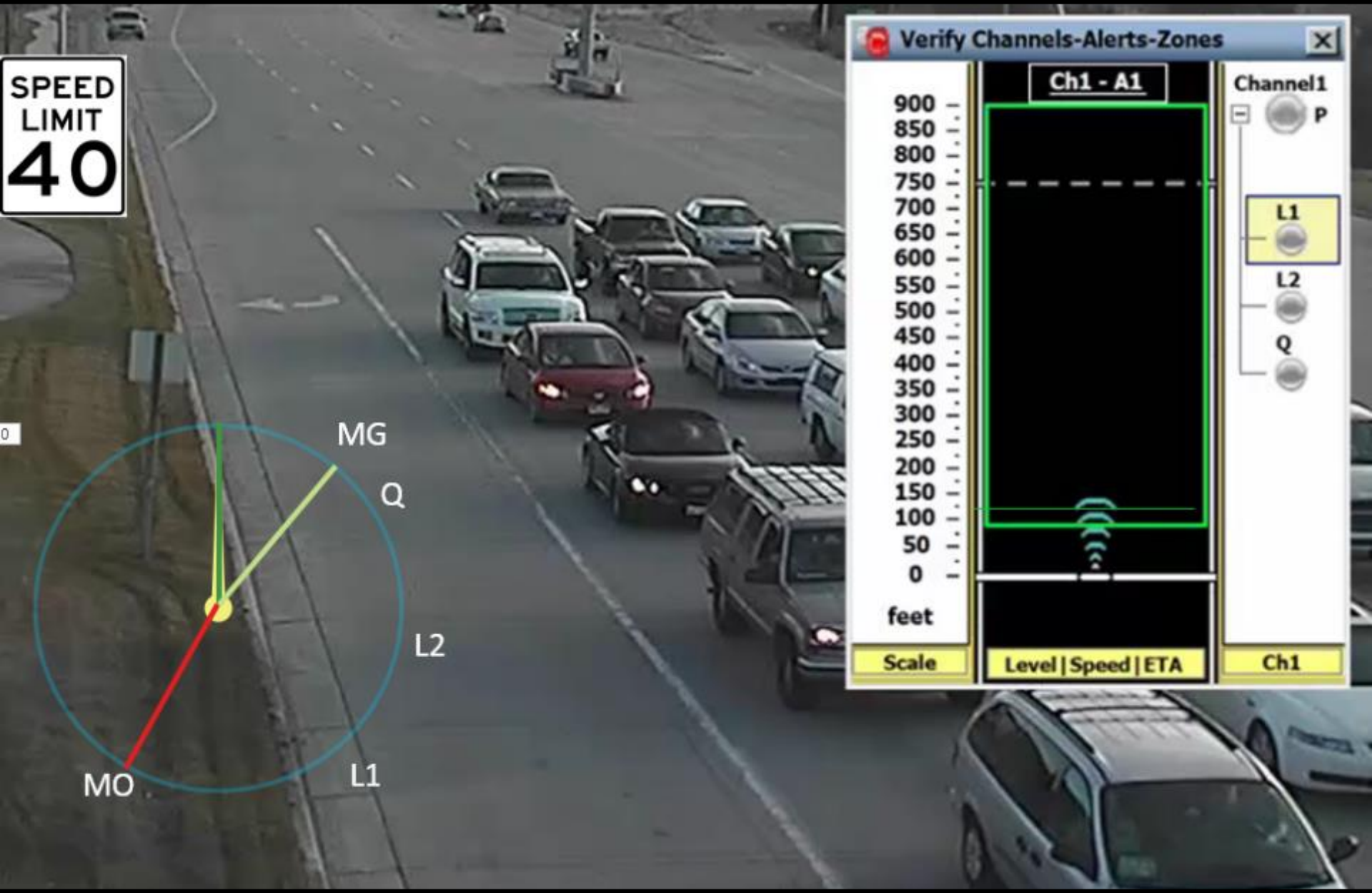

Point Based
Detection
PASSAGE TIME
:00
safety concern
efficiency concern
actual protection
actual protection
Dynamic Dilemma
Zone Protection

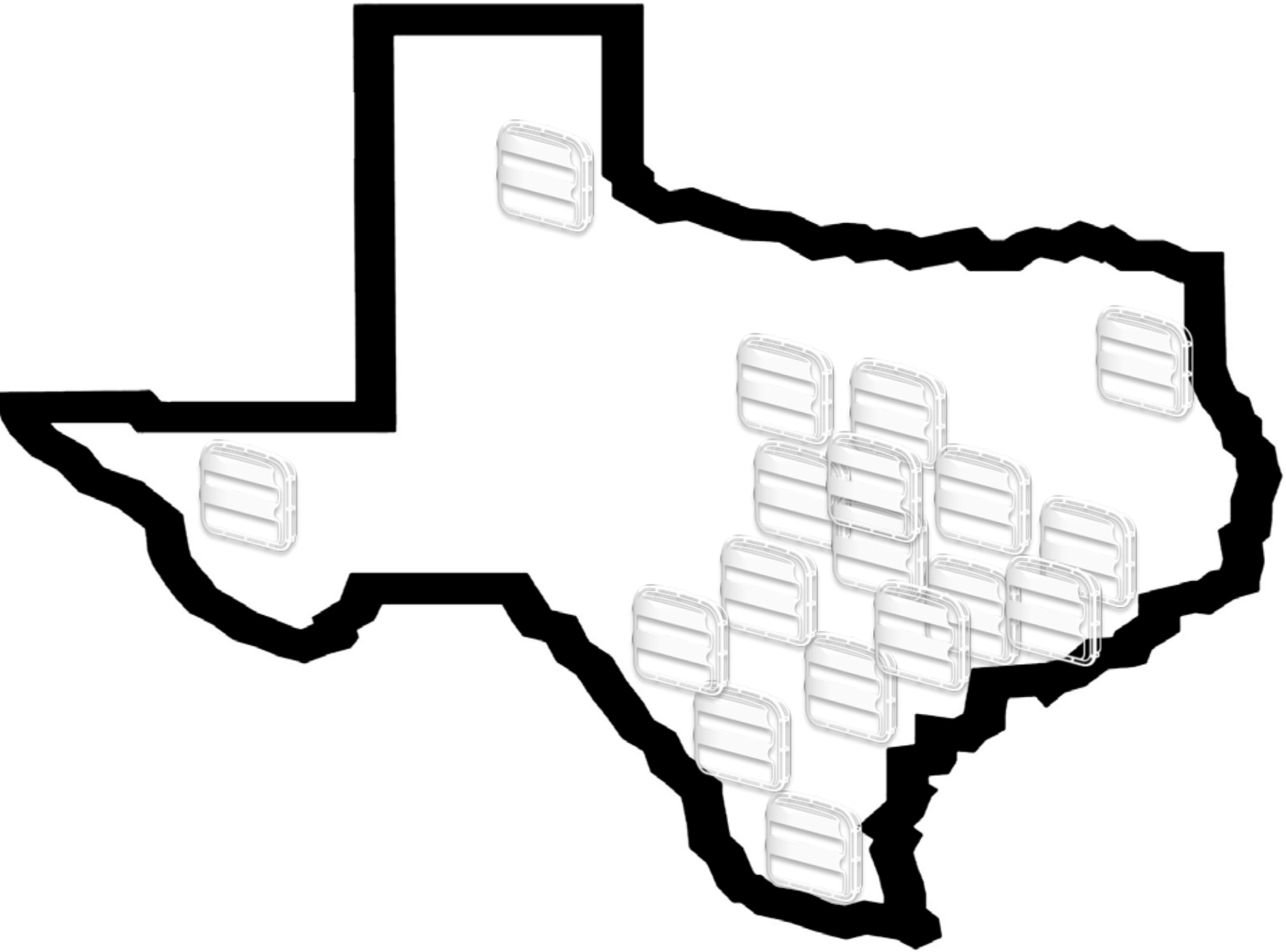


Passage Time

About 1 Second

6 Seconds


SPEED
LIMIT
40
MG
Q
L2
L1
MO
Verify Channels-Alerts-Zones
Ch1 - A1
Channel1
P
L1
L2
Q
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
feet
Scale
Level|Speed|ETA
Ch1



Thank You!

WAVETRONIX