



# Speed Limit Reduction on Residential Streets

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CITY COUNCIL MEETING – February 7, 2023

City Staff Representatives: Noe Martinez, Public Works Engineering Manager

# Strategic Plan



Strategic, Supportable,  
Infrastructure



Innovative, Data-  
Driven, Results-Focused  
City Government

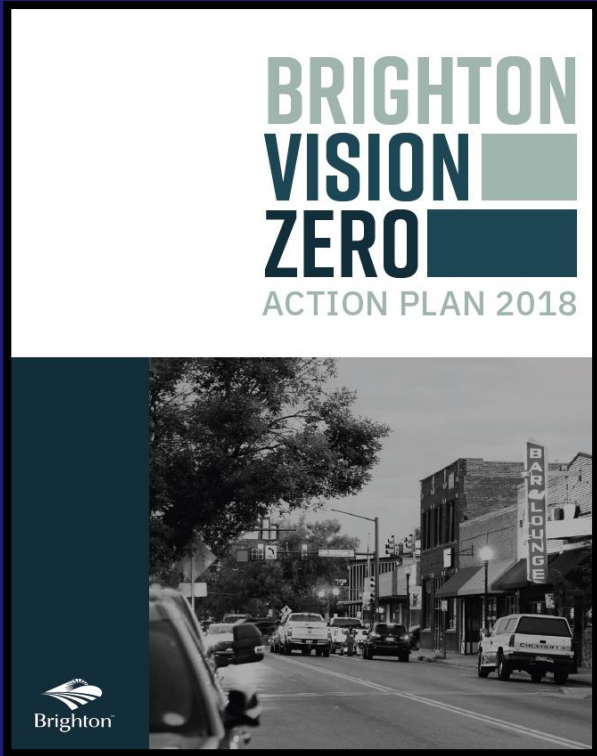


# Introduction

- Background
- Existing Residential Speed Limit
- Recommendation
- Fiscal Impact
- Questions



# Background

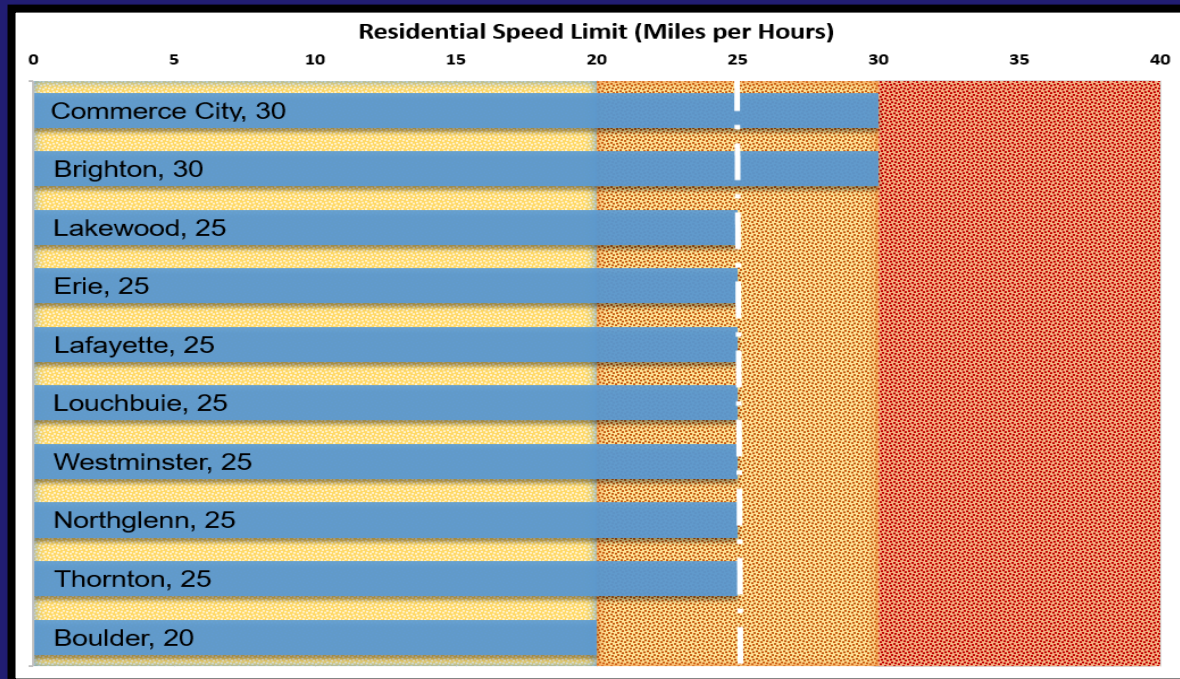


Reduction of Residential Speed limit from 30 MPH to 25 MPH unless otherwise posted

3.8 Reduce the Prima Facie speed limit in residential districts from 30 mph to 25 mph by updating Section 10-4-100 of the Brighton Municipal Code, which references 1101.c of the Colorado Model Traffic Code, and updating traffic signs accordingly.

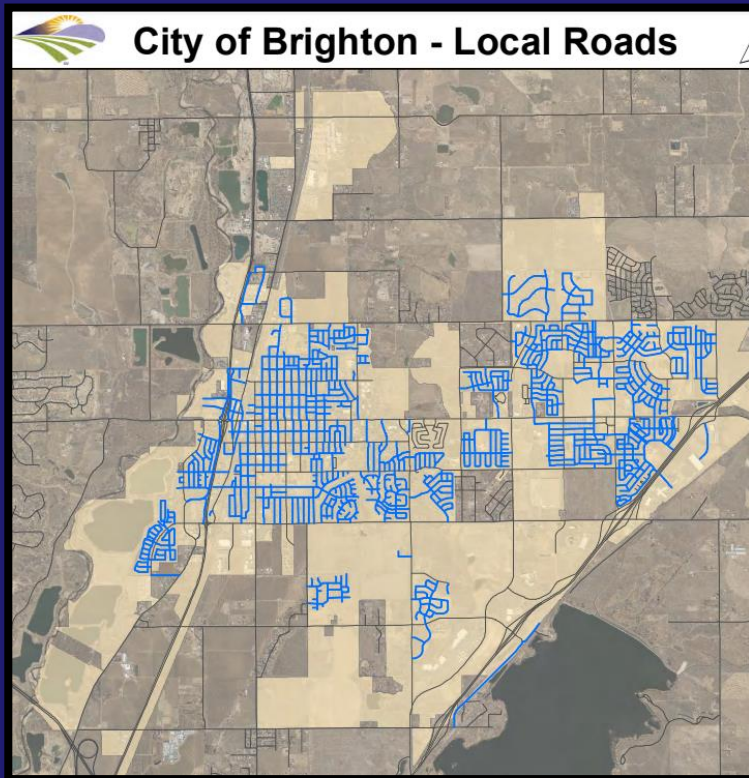


# Existing Residential Speed Limit





# Existing Residential Speed Limit



Design Element	Major Arterial	Minor Arterial	Collector	Local Street	Alley
Flow Line Curb Radius intersecting Major or Minor Arterial	55	55	40	40	N/A
Flow Line Curb Radius intersecting Collector	40	40	30	20	Drive ramp
Flow Line Curb Radius intersecting Local	40	40	20	15	Drive ramp
Design Speed	45 mph	45 mph	35 mph	25 mph	20 mph
Unsignalized full movement Access/Intersection spacing, feet					
100-1000 ADT	N/A	150*	150	150	75
1000-2500 ADT	600	300	300	150	75
>2500 ADT	600	600	300	150	75
Major signalized intersection spacing	½ mile	¼ mile	½ mile	N/A	N/A
Typical Posted Speed Limit	40 mph	40 mph	35 mph	25 mph	20 mph
Maximum Degree of Curve (degrees)	6	7.4	12	32.7	32.7
Minimum Curve Radius (feet)	1200	1200	550	250	175
Final Cross Slope without Super Elevation***	2% to 4%; no inverted crowns without approval of Director				2%-4%, alleys shall not drain to private property
Maximum Longitudinal Street Grade	5%	5%	6%	6%	6%
Minimum Longitudinal Street Grade	0.5%	0.5%	0.5%	0.5%	0.5%
Maximum Grade at Intersection	2% for 300'	3% for 300'	4% for 150'	4% for 150'	4% for 150'

\*Internal street network shall be used if available  
 \*\* or as supported by an approved traffic study  
 \*\*\* Super elevation shall follow AASHTO guidelines.

City of Brighton Standards and Specifications



# Recommendation

- Approve the reduction of the Prima Facie speed limit in residential districts from 30 mph to 25 mph in Municipal Code Section 10-4-100
  - a) Modify Municipal Code to reflect residential speed reduction
  - b) Coordinate with the Brighton Police Department for education and outreach
  - c) Update necessary speed limit signs in residential districts to 25 mph





# Summary of Fiscal Impact

## Speed Limit Signs Cost

Total	\$60,000.00 - \$80,000.00
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- Estimate of speed limit signs - 600
- Cost to replace signs (labor and material) - \$200.00
  - Total Cost of replacement \$120,000.00
- Internal Production - \$80,000.00 (Selected Option)





Brighton<sup>SM</sup>

# Summary of the Ordinance

- Repeal Ordinance #2383
- Re-Adopt the 2020 Model Traffic Code, including Section 6
  - Correct typographical errors on numbering
  - Clarify ambiguities in adoption



# OPTIONS FOR COUNCIL CONSIDERATION

- Approval of the Ordinance in the form at first reading;
- Approval of the Ordinance with specific changes;
- Deny the Ordinance as drafted.
  
- Set a public hearing for March 7, 2023.

# Questions?

