

Planning Notes

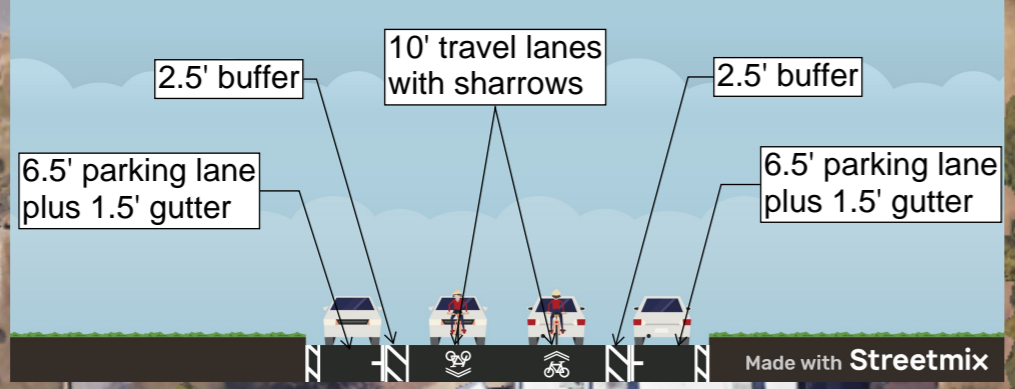
High Injury Network:
46th Ave N is not listed on the HIN, but Charlotte Ave is listed as low.

Existing Conditions:
46th Ave currently has an existing shared route from Murphy Rd to Colorado Ave and then transitions to a buffered bike lane until Park Ave, where it transitions to a shared route approaching Charlotte Ave. No physical delineation present. Green paint not present in conflict zones. 11' travel lanes. Multiple pedestrian crossings.

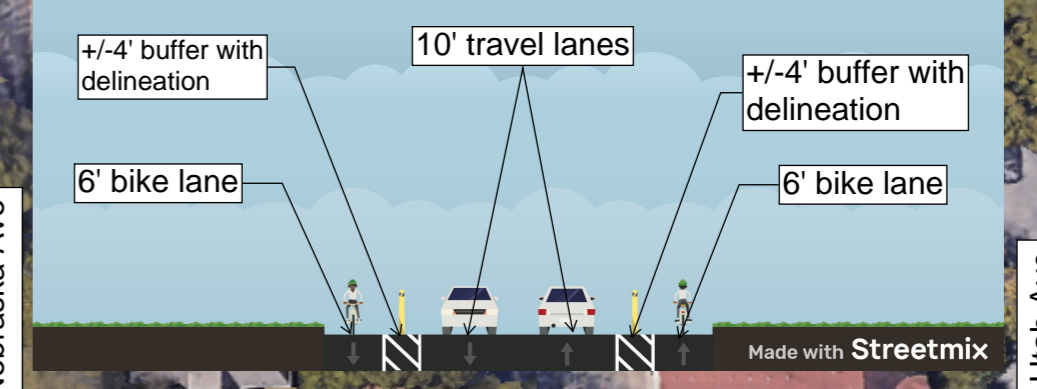
Proposed Improvements:

- Install green paint at intersection conflict zones, dashes at alleys/driveways. Add stop lines at relevant minor street intersections.
- Perform turning count movements at Charlotte Ave and Park Ave.
- Add vertical delineation to buffered bike lanes.
- Explore traffic calming near roundabout.
- Make bike lane parking protected in applicable locations.
- Turn hardening with striping at applicable intersections.
- Analyze ped crossings, update and add as needed (Wyoming Ave, Idaho Ave, etc.)
- Include incremental safety improvements for shared route approaching roundabout.
- More robust crossing at Utah Ave school crossing.
- Update bikeway facility signage as needed.

46th Ave N: Proposed XS1b



46th Ave N: Proposed XS2b



- Upgrade bikeway transition pavement markings.
- End BL prior to driveway and add sharrows prior to curb extension.
- Consider "LOOK FOR BIKES" pavement markings.



add raised crosswalk at school crossing location
alternative: add delineation or centerline hardening approaching crosswalk, advanced school crossing warning signage

5 crashes per AASHTOWare (3/21/21-3/21/24)

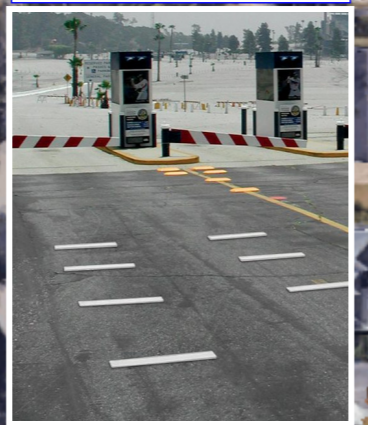
TYPE
-Property damage only (3)
-Suspected minor injury (2)

YEAR
2023 (1), 2022 (1), 2021 (3)

MANNER
-no collision with vehicle (2)
-pedalcycle (1)
-pedestrian (1)
-standing tree (1)

LIGHT
-daylight (5)

Traffic calming alternatives:
- TAPCO RoadRumbler
Rumble Strips (see photo below)



Existing Nebraska Ave approach:
4' BL, 10' TL, 10' LTL, 10' TL, 4' BL

1 crash along this segment per AASHTOWare (3/21/21-3/21/24)

TYPE
-property damage only

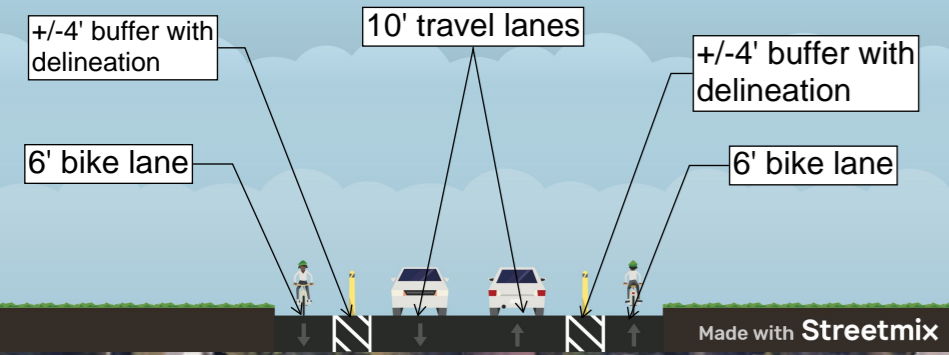
YEAR
2022

MANNER
- no collision with vehicle

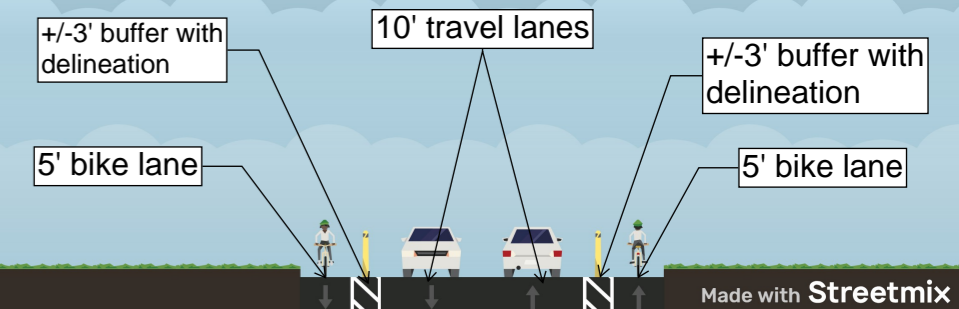
LIGHT
-daylight



46th Ave N: Proposed XS2b



46th Ave N: Proposed XS3b



1 crash approaching intersection per AASHTOWare (3/21/21-3/21/24)
TYPE
-property damage only
YEAR
-2021
MANNER
-no collision with vehicle
LIGHT
-daylight

1 crash at intersection per AASHTOWare (3/21/21-3/21/24)
TYPE
-suspected minor injury
YEAR
-2021
MANNER
-angle
LIGHT
-daylight

1 crash at intersection per AASHTOWare (3/21/21-3/21/24)
TYPE
-property damage only
YEAR
-2023
MANNER
-angle
LIGHT
-daylight

2 crashes approaching intersection per AASHTOWare (3/21/21-3/21/24)
TYPE
-property damage only (2)
YEAR
2023 (1), 2022 (1)
MANNER
-angle (1)
-no collision with vehicle (1)
LIGHT
-dark-lighted (1)
-daylight (1)

Wyoming Ave

Idaho Ave

Dakota Ave

Nevada Ave

Turn hardening at Wyoming Ave (see example below)

Turn hardening at Idaho Ave

Turn hardening at Dakota Ave

dash centerline across intersection

XS2

46th Ave N

XS3

Proposed improvement(s):

- Intersection advanced warning sign, "Cross traffic does not stop" sign

3 crashes at intersection per AASHTOWare (3/21/21-3/21/24)

TYPE

- property damage only (3)

YEAR

- 2023 (1), 2022 (1), 2021 (1)

MANNER

- angle (3)

LIGHT

- daylight (3)

Proposed improvement(s):

- Intersection advanced warning sign, "Cross traffic does not stop" sign
- Examine sight distance.
- Evaluate TMCs and determine if NB left turn lane is warranted.

5 crashes at intersection per AASHTOWare (3/21/21-3/21/24)

TYPE

- property damage only (4)
- possible injury (1)

YEAR

- 2023 (3), 2022 (2)

MANNER

- angle (5)

LIGHT

- daylight (5)



29 crashes at intersection per AASHTOWare (3/21/21-3/21/24)

TYPE

- property damage only (17)
- suspected minor injury (7)
- possible injury (5)

YEAR

- 2024 (2), 2023 (9), 2022 (12), 2021 (6)

MANNER

- angle (20)
- rear end (3)
- head on (2)
- sideswipe, opp dir (2)
- sideswipe, same dir (2)

LIGHT

- daylight (21)
- dark-lighted (8)

**note: 16 crashes that occurred in the intersection were all between 5AM and 2PM*

Proposed Improvement(s):

- Install bike box at intersection approach and so prohibit RTOR movement
- Examine signal phasing and timing
- Implement intersection safety devices/cameras (CMF ID 11087)

Upgrade sidewalk at SE corner of Elkins Ave intersection to address stormwater issues (see below)

