## Open House 1: What We Heard

### **Representative Experiences**







**26th & 28th Streets Bicycle and Pedestrian Improvements** 

## Driving



MOST







## **Alternate Solutions:** Alternative Routes

Open House #1: What about using 25th and 27th Streets as bikeways and preserving 26th and 28th Streets for cars?

#### Pros:

- Maintains existing vehicle travel lanes on 26th and 28th
- Bicyclists routed to lower volume residential streets with higher perceived safety

#### Cons:

- Would not address project goal of creating bicyclist and pedestrian improvements on 26th and 28th Streets
- 26th and 28th Streets have strong commercial nodes that attract cyclists
- Sidewalk riding is a current problem on 26th and 28th
- Lack of freeway crossings on 25th and 27th
- 25th and 27th Streets would require new crossing controls



### **26th & 28th Streets Bicycle and Pedestrian Improvements**



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## Alternate Solutions: Two-way Traffic Conversion

Open House #1: What about converting all or part of 26th and 28th Streets to two-way traffic operation?

#### Pros:

- May slow down traffic
- Allows more direct routing within neighborhoods

#### Cons:

- Pedestrian improvement options more limited at intersections
- Requires addition of left turn lanes; increases pedestrian crossing distances at intersections
- Could result in spill-over traffic to neighborhood side streets
- Could reduce parking
- Requires comprehensive, mulit-year traffic study to determine potential impacts, challenges, and opportunities
- Requires system-wide signal upgrades (high cost project)
  - 2015 implementation not feasible



#### **26th & 28th Streets Bicycle and Pedestrian Improvements**

## **Recommendation**:

- operations



Continue development of 2015 concepts with one-way traffic

Consider 2015 concepts could impact feasibility of two-way conversion in the long term

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# Alternate Solutions: Two-way Traffic Conversion (Cont'd)

Open House #1: What about converting all or part of 26th and 28th Streets to two-way traffic operation?



Existing 44' Section





Two-way Options, 44' Section

- One travel lane in each direction •
- Left turn lanes required at numerous • intersections
- One separated bike lane •
- No parking lane •
- Minimal space for ped improvements • in the bicycle buffer area

- One travel lane in each direction
- Left turn lanes required at numerous • intersections
- One-lane dedicated parking •
- No bicycling facility •
- Space for ped curb extensions • in parking lane



### **26th & 28th Streets Bicycle and Pedestrian Improvements**



Existing 36' Section



Two-way Option, 36' Section

- One travel lane in each direction •
- Left turn lanes required at numerous • intersections
- No bicycling facility •
- No parking lanes •
- No space for ped improvements •

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# **Design Elements:** One-way versus Two-way Protected Bikeways

## **One-way Protected Bikeways** (both streets)

#### Pros:

- Cyclists move in same direction of traffic so the need for traffic signal upgrades is minimal
- "Protected" space and parking lanes can sometimes incorporate medians wide enough to serve as refuges for crossing pedestrians



Pros: one-way street



### Cons:



Reduces width on *both* 26th and 28th Streets available for travel lanes and parking



#### Cons:

- than for one-way)



### **26th & 28th Streets Bicycle and Pedestrian Improvements**

## **Two-way Protected Bikeway** (one street)

Preserve existing traffic operations and parking on other

Typically placed on left side of street so that outside lane bicyclists travel in the same direction as traffic

Requires signal upgrades at every light (higher cost

Requires greater width than one-way protected bike lane which reduces space for pedestrian refuges, travel lanes and parking





# **Design Elements:** Left versus Right Side Protected Bikeways

In Minneapolis, bicycling facilities are typically placed on the right side of the street. Bicyclists have told us they feel cars are more likely to look for them in a right-side lane. Using this design consistently throughout the city helps reinforce this expectation among drivers and cyclists.

There are some benefits to left-sided bicycling facilities. Here are some reasons a bicycling facility may be placed on the left side of the street:

traffic signal controls

Presence of destinations that generate frequent left turns by bicyclists

Less disruption to transit service operating on the right side of the street

Left -side protected bike lane in New York City



# Minneapolis

Right-side protected bike lane on 1st Ave. N.,



#### Which side do you prefer? Put an "x" under any of the boxes below and tell us why.

X	Why I prefer right side bike lanes:	X		

### **26th & 28th Streets Bicycle and Pedestrian Improvements**

Easier prevention of bicyclist collisions with left-turning vehicles through



Why I prefer left side bike lanes:

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# **Design Elements:** Intersection Treatments

Streets with protected bike lanes and parking lanes offer additional opportunities to improve pedestrian crossings at intersections. These treatments create space for pedestrian refuges and curb extensions. Pedestrian refuges must be at least 6' wide. These are some examples of how crossings improvements can be integrated with protected bike lanes.



Curb extension incorporated with protected bike lane





Curb extension in Minneapolis



#### **26th & 28th Streets Bicycle and Pedestrian Improvements**

Pedestrian refuge incorporated with protected bike lane





# **Design Elements:** Types of protection

Different treatments may be applied to protect bicycles from traffic. Cost, maintenance considerations, and width of the bicycle buffer area will impact which type of protection is selected in each location.



Where would you like riding? Put an "x" under any of the protection treatments above that you would feel comfortable bicycling in.

**26th & 28th Streets Bicycle and Pedestrian Improvements** 

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## Design Concepts: Majority Corridor Widths



44' Street Existing Conditions: 3 travel lanes, 1 parking lane



**44' Street - Option 1**: 1 travel/restricted parking lane, 2 travel lanes, one-way protected bike lane



44' Street - Option 2: 2 travel lanes, 1 parking lane, one-way protected bike lane



44' Street - Option 3: 2 travel lanes, 1 parking lane, one-way protected bike lane



11′ 11' 44' Street - Option 4: 2 travel lanes, 1 parking lane, two-way protected bike lane



36' Street Option 1: 2 travel/restricted parking lanes, one-way protected bike lane



one-way bike lane



## **26th & 28th Streets Bicycle and Pedestrian Improvements**



36' Street Existing Conditions: 2 travel lanes, 1 parking lane



36' Street Option 3: 2 travel lanes, 1 parking lane,



36' Street Option 4: 2 travel lanes, two-way protected bike lane

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## Design Concepts: Other Corridor Widths



56' Street Existing Conditions: 3 travel lanes, 2 parking lanes



56' Street - Option 1: 3 travel lanes, 2 parking lanes, 1 bike lane



56' Street - Option 2: 3 travel lanes, 1 parking lane, one-way protected bike lane



56' Street - Option 3: 2 travel lanes, 2 parking lanes, one-way protected bike lane



56' Street - Option 4: 2 travel lanes, 2 parking lanes, two-way protected bike lane



56' Street - Option 4: 3 travel lanes, 1 parking lane, two-way protected bike lane



**40' Street Existing Conditions:** 2 travel lanes, 2 parking lanes



**40' Street - Option 1:** 2 travel lanes, 1 parking lane, one-way protected bike lane



**40' Street - Option 2**: 2 travel lanes, 1 parking lane, one-way protected bike lane



**40' Street - Option 3:** 2 travel lanes, 1 parking lane, 1 bike lane



**40' Street - Option 4:** 2 travel lanes, two-way protected bike lane



#### **26th & 28th Streets Bicycle and Pedestrian Improvements**



**38' Street Existing Conditions:** 2 travel lanes, 1 travel/restricted parking lane



**38' Street- Option 1:** 2 travel lanes, one-way protected bike lane



**38' Street- Option 2:** 2 travel lanes, 1 parking lane, 1 bike lane



**38' Street- Option 3:** 2 travel lanes, 1 parking lane, 1 bike lane



**38' Street- Option 4:** 2 travel lanes, 1 travel/restricted parking lane, 1 bike lane



**38' Street- Option 5:** 2 travel lanes, two-way protected bike lane



