

**Public Meeting** 

February 13, 2023





### **Project Team**

#### **City of Dover**

- Donna Benton Director of Planning & Community Development
- Kenneth Mavrogeorge City Engineer
- Chris Parker Deputy City Manager
- Jillian Semprini Assistant City Engineer

#### <u>GPI</u>

- Steve Babalis Traffic and Intersection Design
- Mark Debowski Project Manager
- Kyle Higgins Roadway Design
- Robert White Landscape Design

### Agenda

Project Background
Existing Conditions
Traffic
Roundabouts
The Design
Project Schedule
Plans Available
Questions
Table Discussions

# Project Background

## Project Area



#### **Project Purpose**

The purpose of this project is to create streets and ways that can be operated safely and are accessible for all users regardless of age, physical ability, or mode of transport.

The design should incorporate the elements and principles laid out in the City of Dover Complete Streets and Traffic Calming Guidelines.

#### Project Purpose

Safety

Connectivity

Social Impact

Economic Development

Aesthetics





Explain the current status of the project.



Learn what is important to you.

#### How did we get here?

#### 2014–2015

Cecil Group Study

 Primary Recommendation: Two-way vehicle circulation in downtown on Main, Washington, and Central

GPI

- Developing design from Study
- Modifications
- Alternatives

February 2022 – Present

# **Existing Conditions**

#### Existing Conditions - Wide Pavement and Long Pedestrian Crossings



#### **Existing Conditions - Confusing Vehicle Paths**



#### **Existing Conditions - Unsafe Parking Situations**



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#### **Existing Conditions - Deteriorating Surfaces**



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#### **Existing Conditions - Street Trees**





Traffic

#### Existing One-Way Traffic



#### Proposed Two-Way Traffic



# Benefits of Two-Way Traffic Downtown on Main, Central, and Washington

Increases safety

Circulation clearer and more convenient

More access to businesses, residences, and parking

Expands transit options

Eliminates the possibility of wrong-way travel on one-way roads

# Roundabouts

#### A Roundabout Is Not a Rotary



Portsmouth Traffic Circle (Rotary)

- High speeds
- Large circle
- Lane changes often required



#### Silver Street Roundabout

- Lower speeds
  - Small circle
- No lane changes

#### A Roundabout is Not a Rotary



#### The Benefits of Roundabouts

- Safety is Increased
- Traffic flow
- Aesthetics
- Rolling queues
- Safer pedestrian crossings
- Gateway
- U-Turns



8 Vehicle conflicts



32 Vehicle conflicts nextstl.com

#### The Benefits of Roundabouts





Source: Leaf, W. A. and D. F. Preusser. Literature Review on Vehicle Travel Speeds and Pedestrian Injuries. Final Report DOT HS 809 021. National Highway Traffic Safety Administration, Department of Transportation, Washington, D.C., October 1999

The Design

#### **Planned Improvements**



# Focus Area -Lower Square / Central Square



#### Focus Area - Lower Square / Central Square



CENTRAL AVE

#### **Proposed Lower Square Option 1**

Ν 1 -CENTRAL AVE LAW AV 9

CENTRAL AVE

#### Historic Lower Square / Central Square



#### Proposed Lower Square Option 2

CENTRAL AVE



# Focus Area -Upper Square / Franklin Square



#### Focus Area - Upper Square / Franklin Square



#### **Proposed Upper Square Option 1**



#### Proposed Upper Square Option 2



#### Proposed Upper Square Option 3



#### Proposed Upper Square Parking Area - Parking Option



#### Proposed Upper Square Parking Area - Park Option



# Focus Area -Main Street & Portland Avenue



#### Focus Area - Main Street & Portland Ave.



#### Main Street & Portland Ave. - Steep Grade



#### Proposed Main Street & Portland Ave.



## Focus Area -Chestnut Street



#### Focus Area - Chestnut Street



#### Landscape Architecture - River Ecology Concept



#### Landscape Architecture - Historic/Industrial Concept



#### Design Challenges

Steep Grades

Fitting the Setting

Traffic Control During Construction

**Construction Phasing** 

Maintaining Parking (Safety Concerns with Existing Spaces)

#### **Recommended Construction Phases**

- Phase 1: Central Avenue Middle & North, Washington Street & Main Street
- Phase 2: Central Avenue South
- Phase 3: Chestnut Street



# **Project Schedule**

#### Schedule





Spring/Summer 2023 - Public Meeting #2



May – December 2023 – Final Design



# Plans Available

### Engineering Plan



#### Landscape Architecture Plans



DOVER, NEW HAMPSHIRE DOWNTOWN PEDESTRIAN AND VEHICULAR ACCESS IMPROVEMENT PROJECT STREET-SCAPE ROLL PLAN



JANUARY 2023

**RIVER - ECOLOGY CONCEPT** 



# **Table Discussions**

GPI

### Parking

Project Section	Existing # of Spaces	Proposed # of Spaces (Alternative 1)	Difference	Notes
Central Avenue South	54	53	-1	Spaces reduced to 22' where possible. Bus pull-offs retained at their existing length.
Central Avenue Middle	74	56	-18	45 degree angled head-in parking increases safety, allows less spaces.
Central Avenue North	8	10	+2	A few spaces added through access management.
Washington Street	27	24	-3	Introduction of Mid-block crossing and curb extensions limits spaces.
Main Street	18	29	+11	Curb lines revised to maximize parking. 22' spaces used.
Chestnut Street	45	56	+11	Proposed two-lane section allows for additional parking spaces.
Roadway Subtotal	226	228	+2	
Lower Square Area	15	0	-15	Spots within roundabout footprint cannot be retained.
Upper Square Area	40	36	-4	Count reflects parking lot option (25 spaces)
Intersection Subtotal*	55	36	-19	
Totals	281	264	-17	6.1% Reduction in Spots

\*Main Street and Portland Ave Intersection counts included in the Main & Washington sections above