

# ROUTE 28 EASTERN MASHPEE

ROUTE 130 TO ORCHARD ROAD CORRIDOR STUDY

PUBLIC REVIEW OF ALTERNATIVES

SEPTEMBER 27, 2017

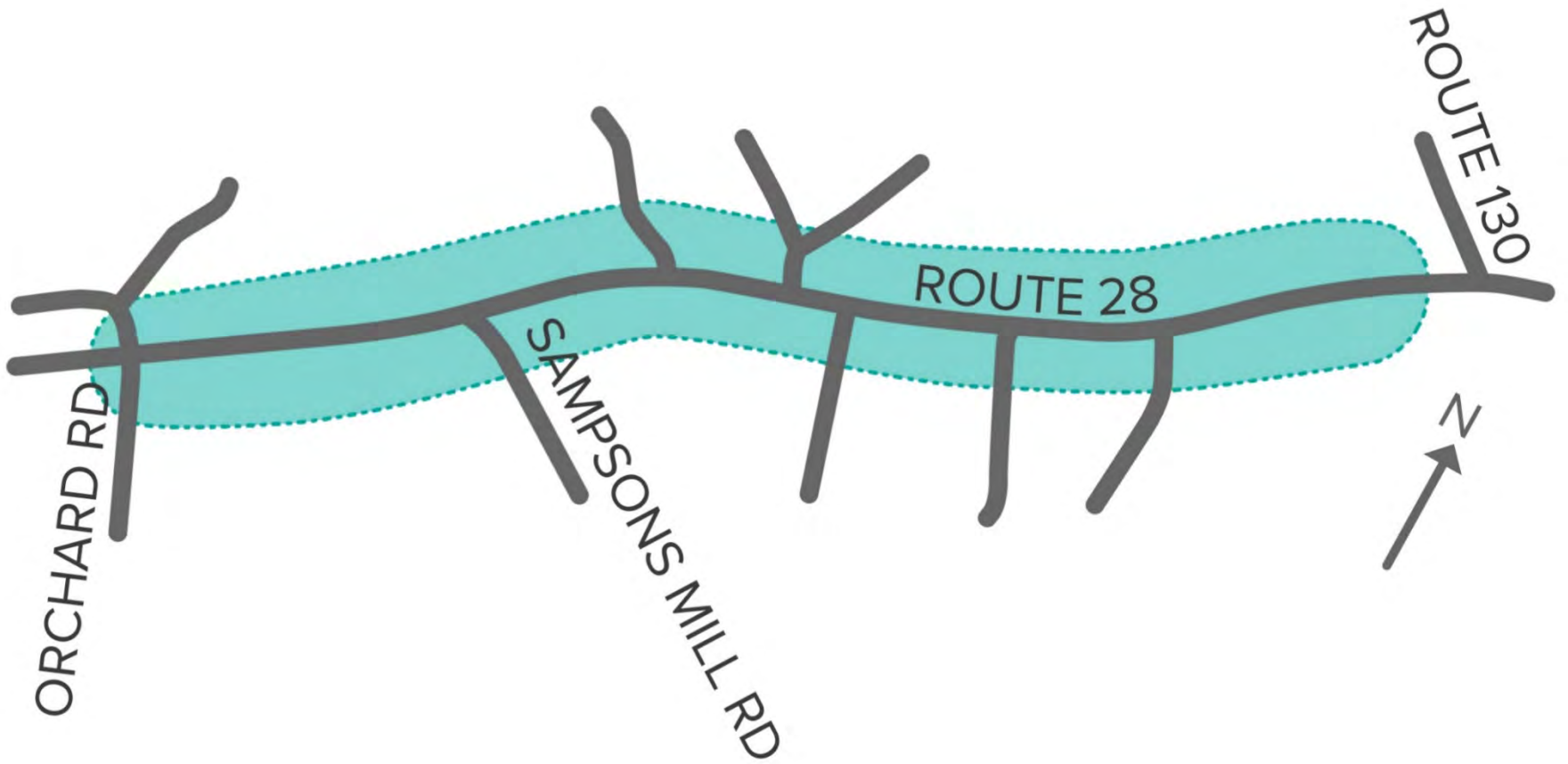


CAPE COD  
COMMISSION

# AGENDA

- Welcome + Introductions
- Project Overview
- Listening Session Summary
- Alternatives Review and Discussion
- Next Steps

# STUDY AREA



# PROJECT OVERVIEW

Develop alternatives that will provide safe and convenient access within the study area for all users of the roadway system including pedestrians, bicyclists, transit users, and motorists.



# PROJECT GOALS

**IMPROVE SAFETY**



**REDUCE CONGESTION**



**ACCOMMODATE ALL USERS**



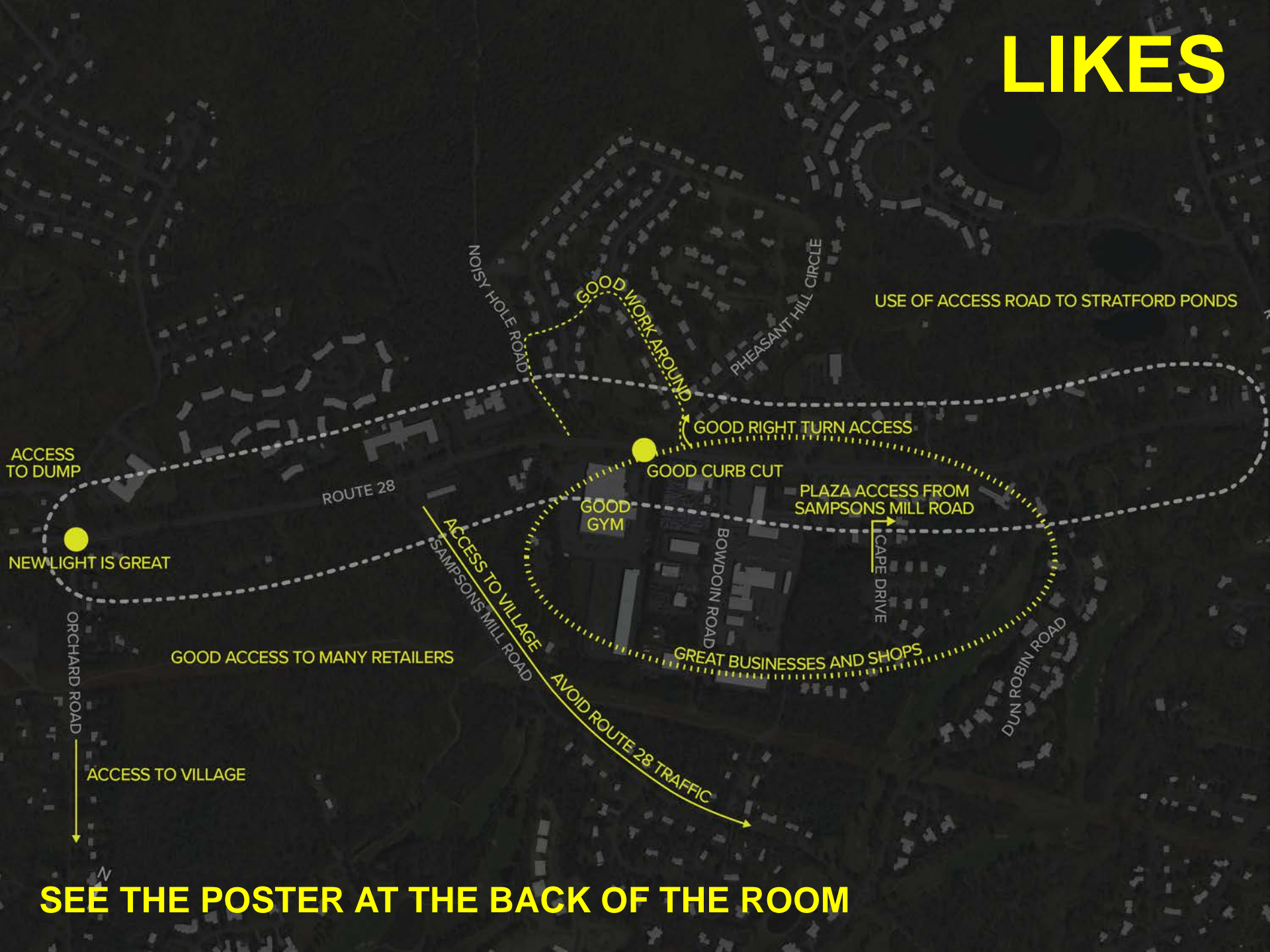
# LISTENING SESSION SUMMARY



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# LIKES



USE OF ACCESS ROAD TO STRATFORD PONDS

NOISY HOLE ROAD

PHEASANT HILL CIRCLE

GOOD WORK AROUND

GOOD RIGHT TURN ACCESS

GOOD CURB CUT

PLAZA ACCESS FROM  
SAMPSONS MILL ROAD

CAPE DRIVE

GOOD GYM

BOWDOIN ROAD

GREAT BUSINESSES AND SHOPS

DUN ROBIN ROAD

ROUTE 28

ACCESS TO VILLAGE  
SAMPSONS MILL ROAD

AVOID ROUTE 28 TRAFFIC

GOOD ACCESS TO MANY RETAILERS

ACCESS TO DUMP

NEW LIGHT IS GREAT

ORCHARD ROAD

ACCESS TO VILLAGE

SEE THE POSTER AT THE BACK OF THE ROOM



# ISSUES



SEE THE POSTER AT THE BACK OF THE ROOM

MORE BACK ROADS AND  
SHORTCUTS AROUND ROUTE 28

# SUGGESTIONS



SEE THE POSTER AT THE BACK OF THE ROOM

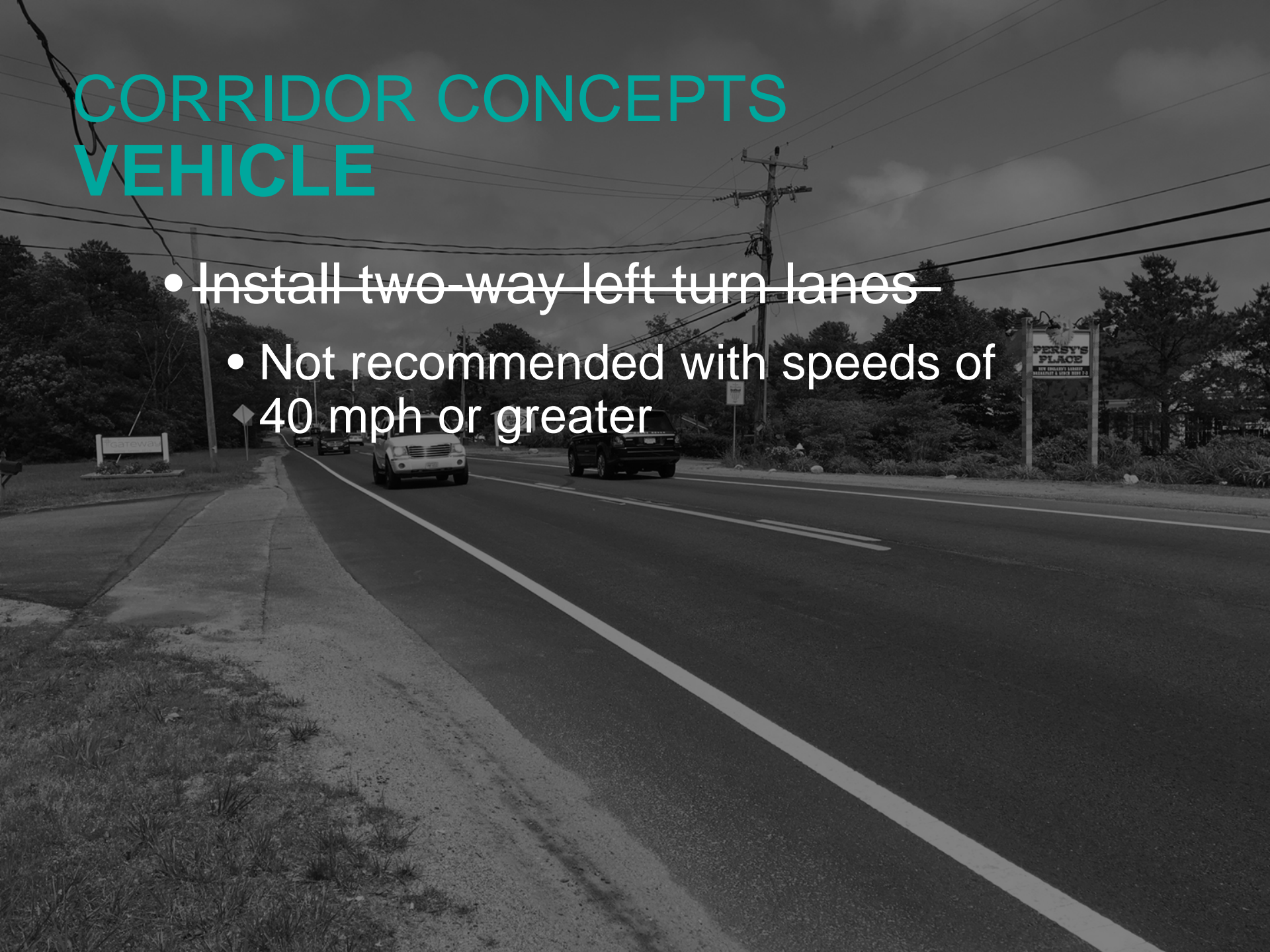
# ALTERNATIVE REVIEW



- Corridor Concepts
- Intersection Concepts
  - Cape Drive
  - Bowdoin Drive
  - Noisy Hole Road/Trinity Place
  - Sampsons Mill Road
  - Orchard Road/Ashers Path

# CORRIDOR CONCEPTS VEHICLE

- ~~Install two-way left turn lanes~~
  - Not recommended with speeds of 40 mph or greater



# CORRIDOR CONCEPTS VEHICLE

- ~~Install two-way left turn lanes~~
  - Not recommended with speeds of  $\geq 40$  mph or greater
- ~~Widen to a four-lane cross section~~
  - Not recommended based on significant right-of-way impacts

# CORRIDOR CONCEPTS VEHICLE

- ~~Install two-way left turn lanes~~
  - Not recommended with speeds of  $\geq$  40 mph or greater
- ~~Widen to a four-lane cross section~~
  - Not recommended based on significant right-of-way impacts
- Request follow-up speed study
- Install turn pockets

# INSTALL TURN POCKETS



# CORRIDOR CONCEPTS PEDESTRIAN

- Upgrade existing crosswalk with Rectangular Rapid Flash Beacon (RRFB)





# UPGRADE EXISTING CROSSWALK WITH RECTANGULAR RAPID FLASHING BEACON



# CORRIDOR CONCEPTS PEDESTRIAN

- Upgrade existing crosswalk with Rectangular Rapid Flash Beacon (RRFB)
- Add sidewalks focusing on the commercial core with an additional crosswalk with RRFB

# PEDESTRIAN CONCEPT

UPGRADED CROSSWALKS WITH COMMERCIAL AREA SIDEWALKS



# CORRIDOR CONCEPTS PEDESTRIAN

- Upgrade existing crosswalk with Rectangular Rapid Flash Beacon (RRFB)
- Add sidewalks focusing on the commercial core with an additional crosswalk with RRFB
- Add sidewalks on both sidewalks throughout the corridor

# PEDESTRIAN CONCEPT

## POTENTIAL CROSS-SECTIONS WITH SIDEWALK ALTERNATIVES



# CORRIDOR CONCEPTS BICYCLIST

- ~~Add multi-use path~~
  - Not recommended without regional improvements to Route 28



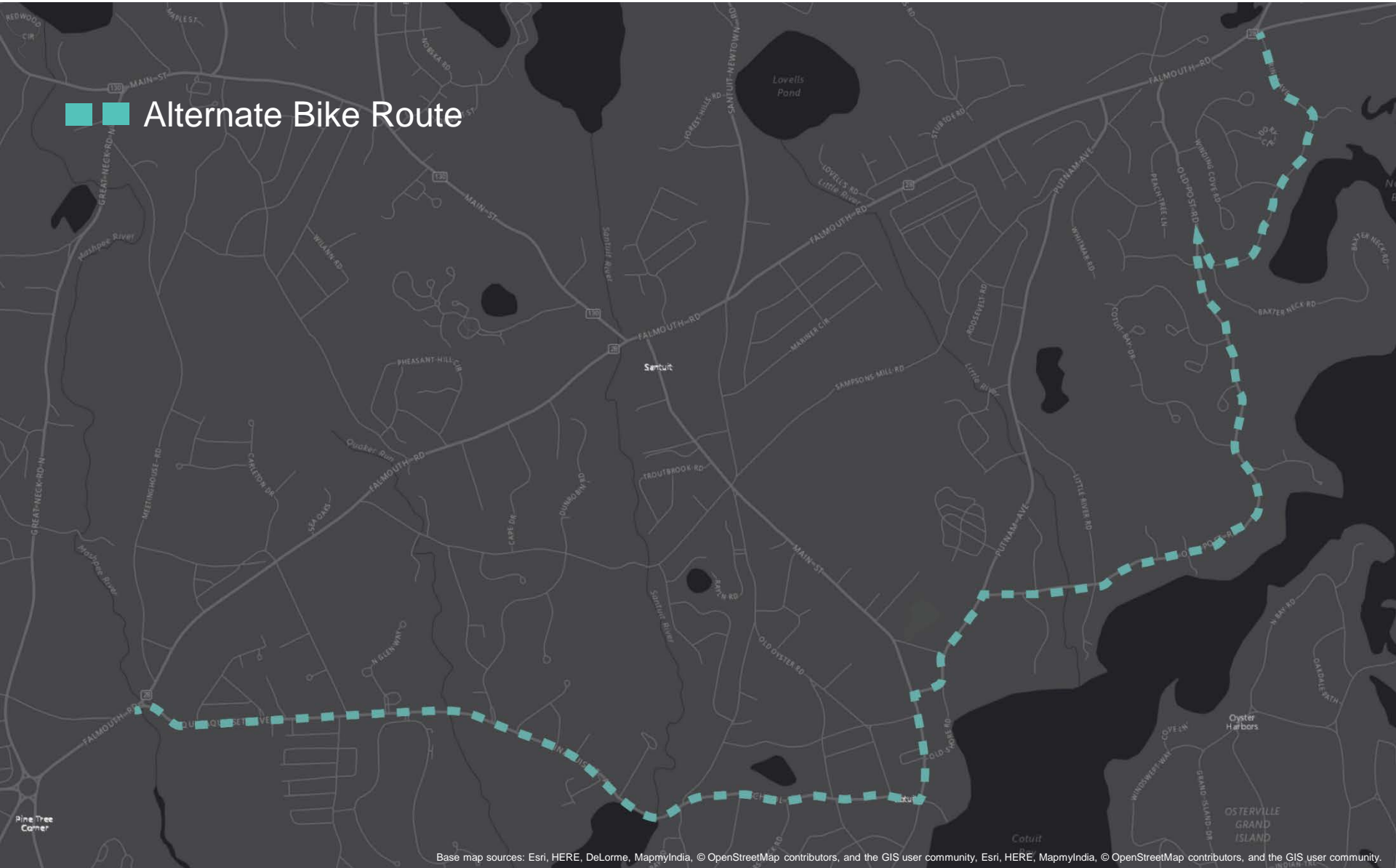
# CORRIDOR CONCEPTS BICYCLIST

- ~~Add multi-use path~~
  - Not recommended without regional
  - ◆ improvements to Route 28
- Add signage for alternative routes

# BICYCLIST CONCEPT

## ALTERNATE BIKE ROUTES (FOR LONG DISTANCE TRIPS)

■ ■ Alternate Bike Route





# CORRIDOR CONCEPTS BICYCLIST

- ~~Add multi-use path~~
  - Not recommended without regional
  - ◆ improvements to Route 28
- Add signage for alternative routes
- Bicycle accommodating shoulders

# BICYCLIST CONCEPT

## CROSS-SECTION WITH BICYCLE ACCOMMODATING SHOULDER



# CORRIDOR CONCEPTS TRANSIT

- Review bus stop location



# TRANSIT CONCEPT

REVIEW BUS STOP PLACEMENT

**ADD PHOTO OF  
CURRENT STOP  
AT CAPE DRIVE**

# CORRIDOR CONCEPTS TRANSIT

- Review bus stop location
- Improve bus stops (e.g., benches, shelters)



# TRANSIT CONCEPT

## BUS BENCH/SHELTER

- Amenities would make the bus stop more pleasing
- Standard design could be used or enhanced design could reflect local character



# CORRIDOR CONCEPTS TRANSIT

- Review bus stop location
- Improve bus stops (e.g., benches, shelters)
- Add bus pull-outs



# TRANSIT CONCEPT

## BUS PULL-OUT





# CORRIDOR CONCEPTS OTHER

- Add interconnects (vehicular and/or pedestrian) between parcels when/where feasible
- Reduce the size and number of curb cuts when/where feasible

# CAPE DRIVE INTERSECTION CONCEPTS

- ~~Install a traffic signal or roundabout~~
  - Not warranted based on traffic volumes



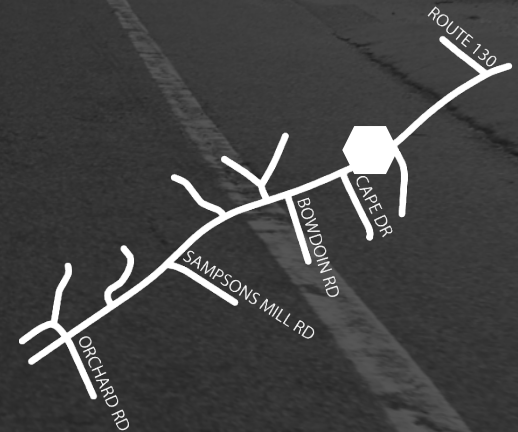
# CAPE DRIVE INTERSECTION ANALYSIS

## TRAFFIC SIGNAL WARRANT ANALYSIS

- The *Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)*, published by the Federal Highway Administration, sets standards for installation and operation of traffic control devices nationwide.
- The MUTCD establishes minimum criteria, known as “warrants,” for installing a traffic signal.
- A traffic signal should not be installed unless it meets one of the warrants.
- The Cape Drive intersection does not meet any of the traffic signal warrants.

# CAPE DRIVE INTERSECTION CONCEPTS

- ~~Install a traffic signal~~
  - Not warranted based on traffic volumes
- Install left turn pockets on Route 28



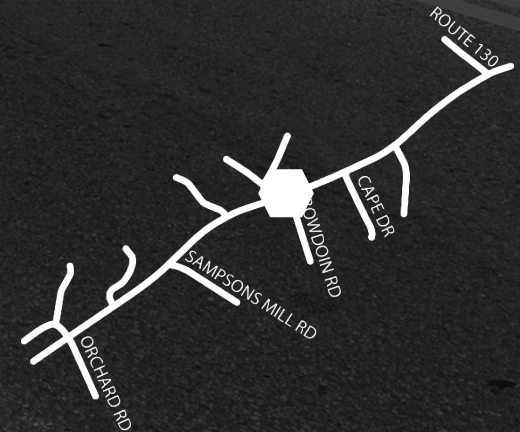
# CAPE DRIVE INTERSECTION CONCEPT

## LEFT TURN POCKET ON ROUTE 28



# BOWDOIN DRIVE INTERSECTION CONCEPTS

- Install left turn pockets on Route 28



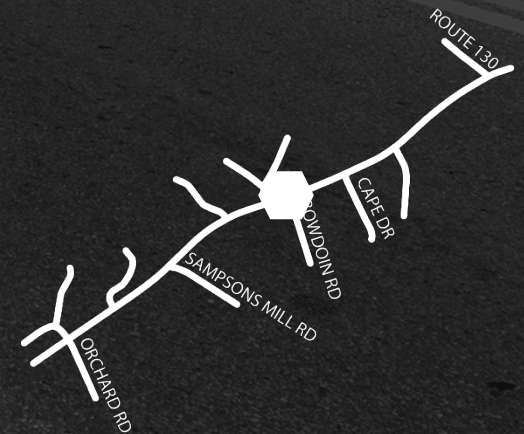
# BOWDOIN DRIVE INTERSECTION CONCEPT

## LEFT TURN POCKET ON ROUTE 28



# BOWDOIN DRIVE INTERSECTION

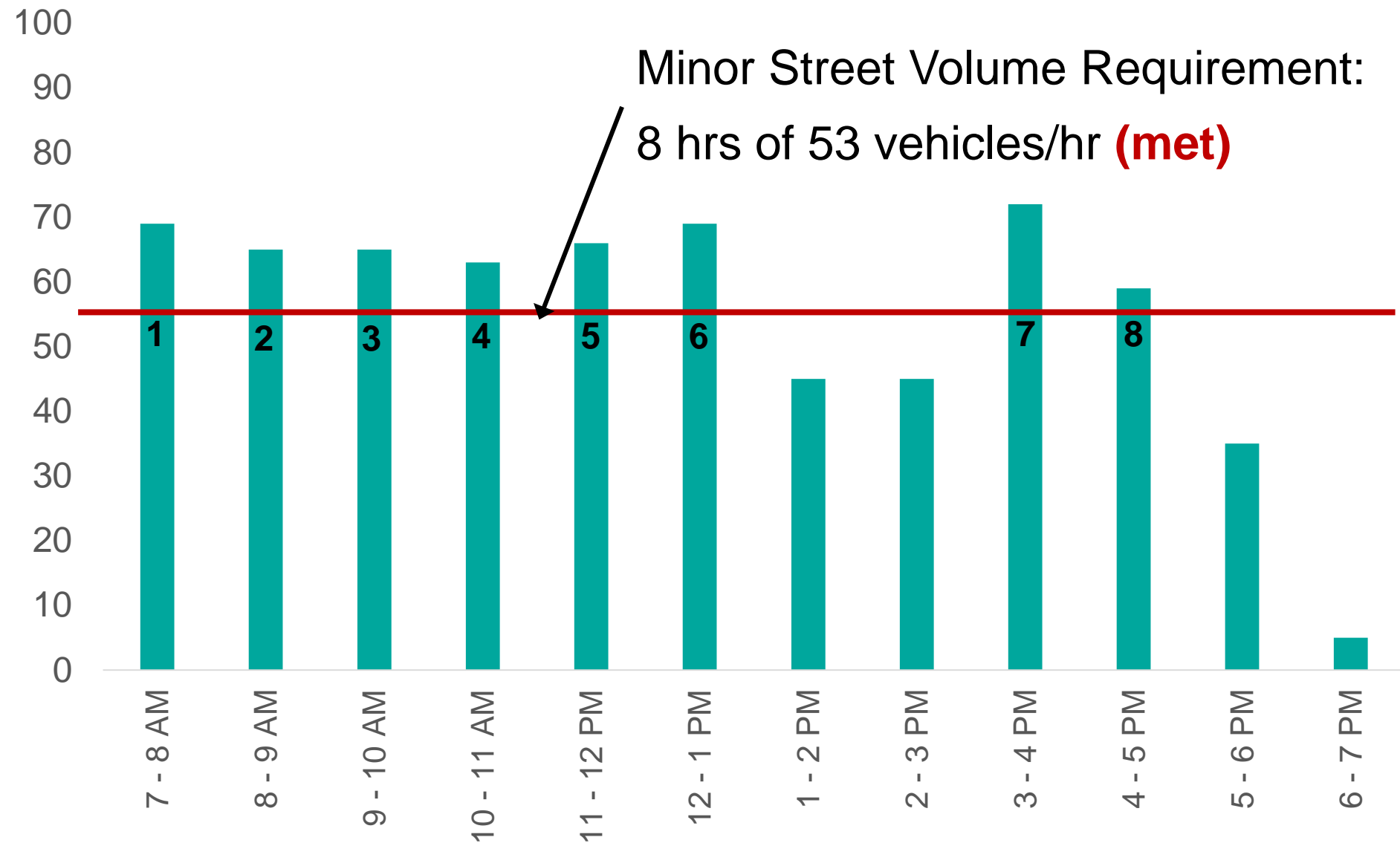
- Install left turn pockets on Route 28
- Install a traffic signal





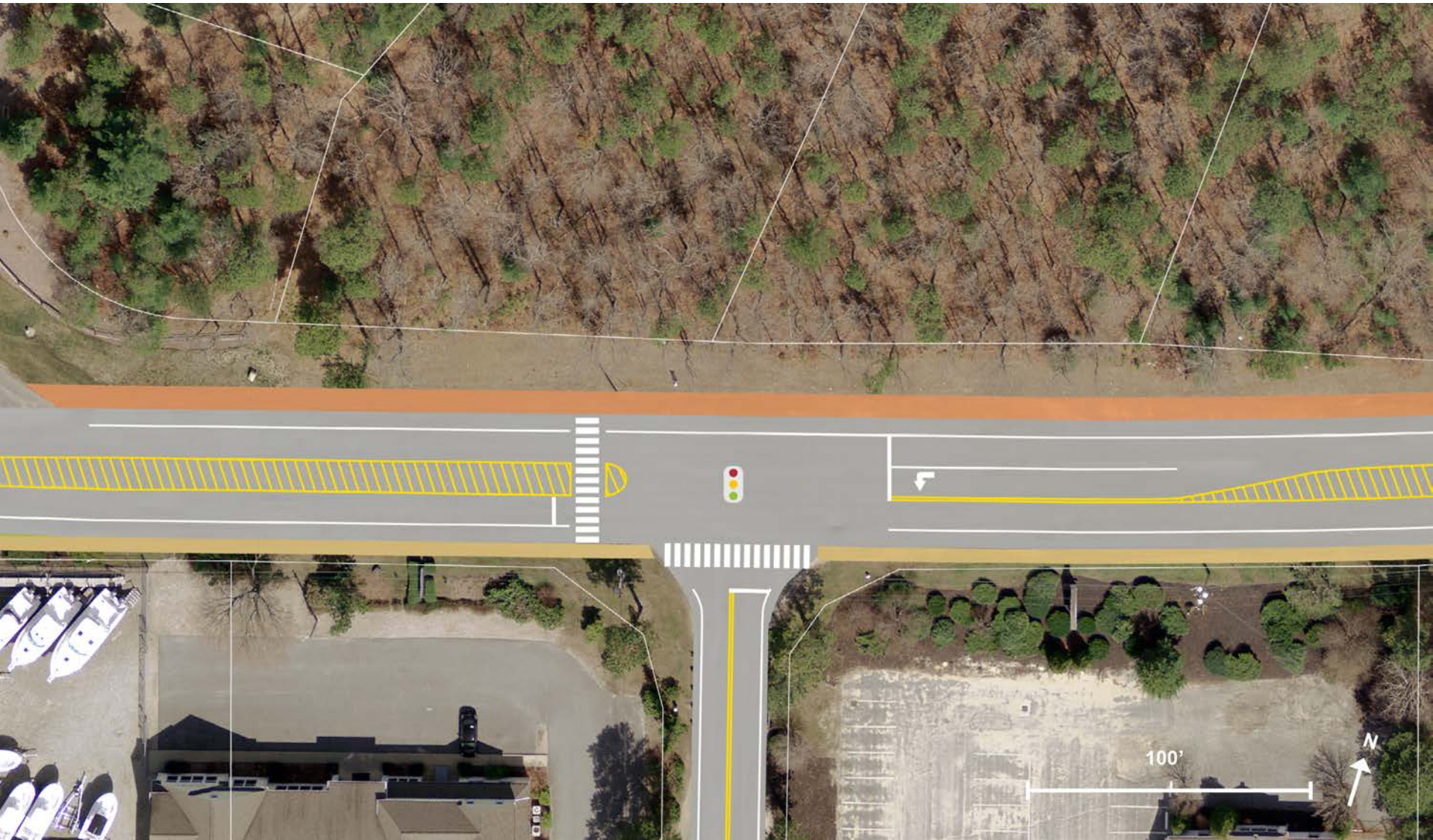
# BOWDOIN DRIVE INTERSECTION ANALYSIS

TRAFFIC SIGNAL ANALYSIS – EIGHT HOUR VEHICULAR VOLUME WARRANT



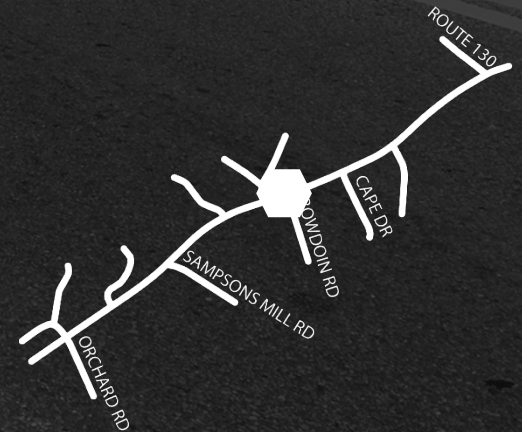
# BOWDOIN DRIVE INTERSECTION CONCEPT

## TRAFFIC SIGNAL



# BOWDOIN DRIVE INTERSECTION

- Install left turn pockets on Route 28
- Install a traffic signal
- Install a roundabout

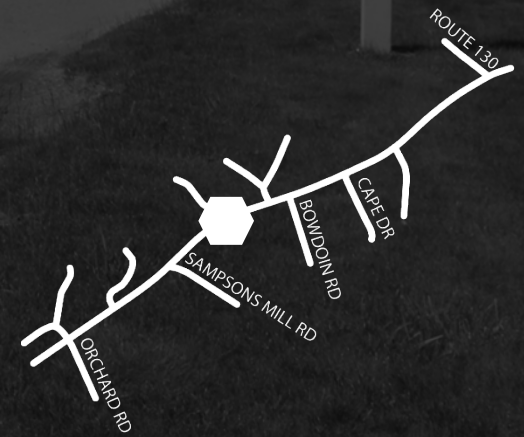


# BOWDOIN DRIVE INTERSECTION CONCEPT ROUNDAABOUT



# NOISY HOLE ROAD/TRINITY PLACE INTERSECTION CONCEPTS

- Install a traffic signal or roundabout

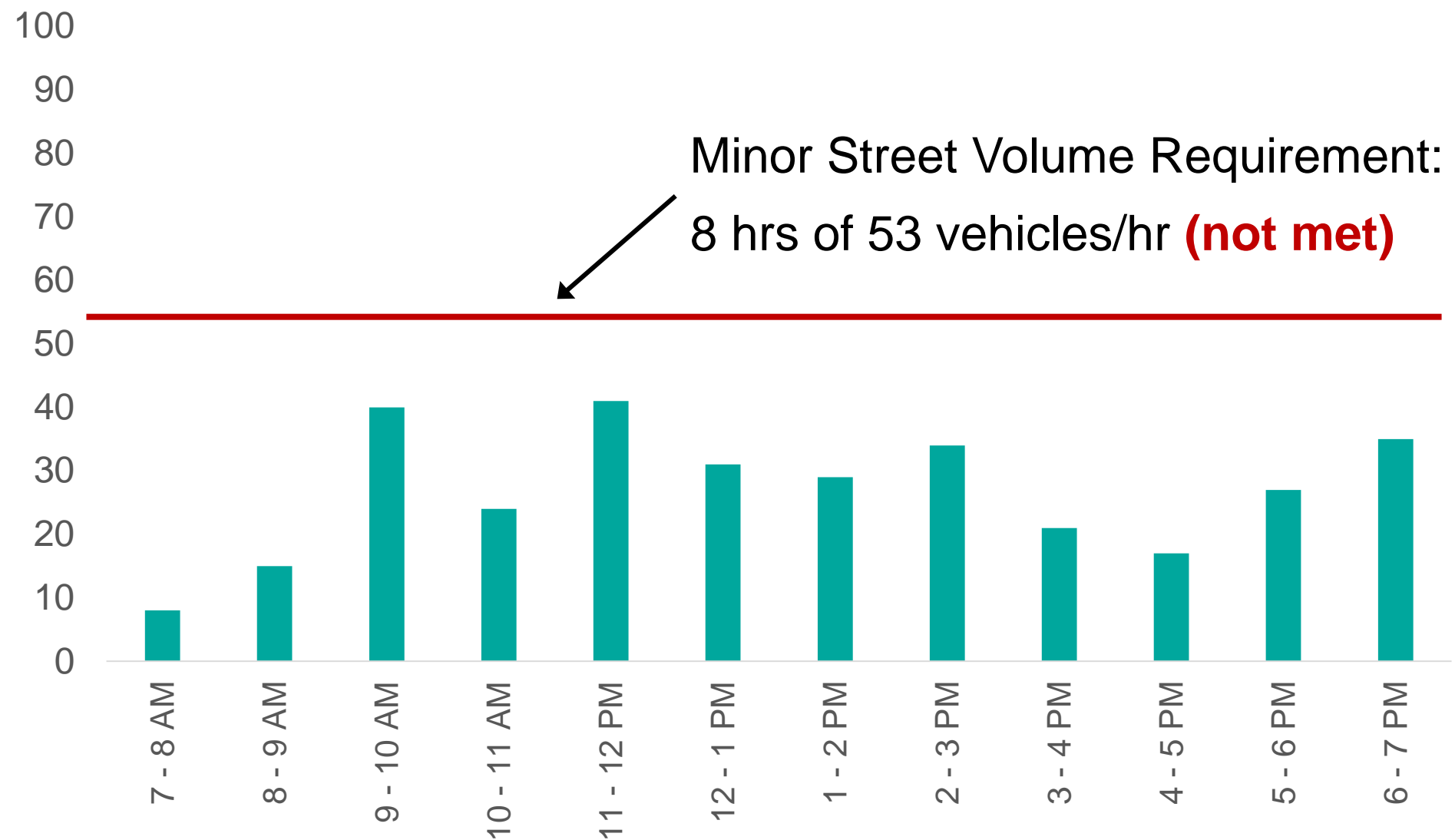


# NOISY HOLE ROAD/TRINITY PLACE TRAFFIC SIGNAL ANALYSIS

**ADD A SLIDE WITH  
DISCUSSION OF THE  
COTUIT MEADOWS  
APPROVAL**

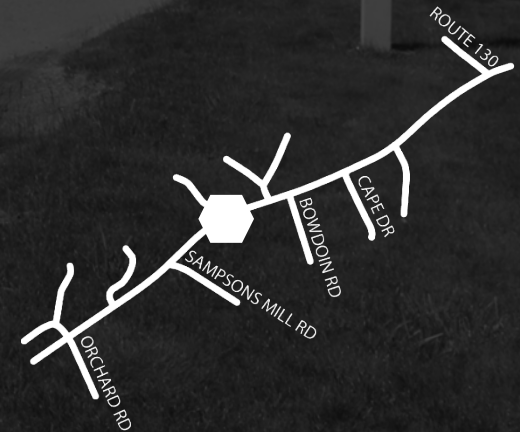
# NOISY HOLE ROAD/TRINITY PLACE ANALYSIS

Traffic signal analysis – Eight Hour Vehicular Volume Warrant



# NOISY HOLE ROAD/TRINITY PLACE INTERSECTION CONCEPTS

- ~~Install a traffic signal or roundabout~~
  - Not warranted based on traffic volumes
- Install left turn pockets on Route 28





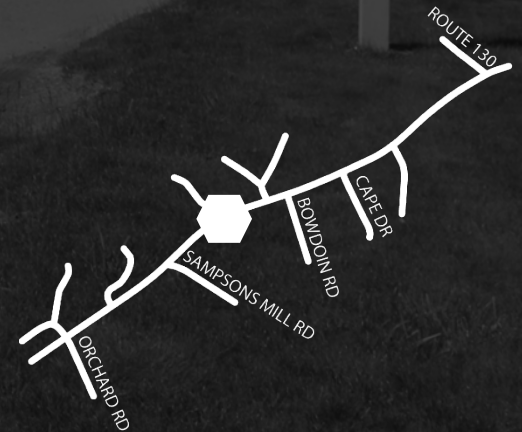
# NOISY HOLE ROAD/TRINITY PLACE CONCEPT

## LEFT TURN POCKET ON ROUTE 28

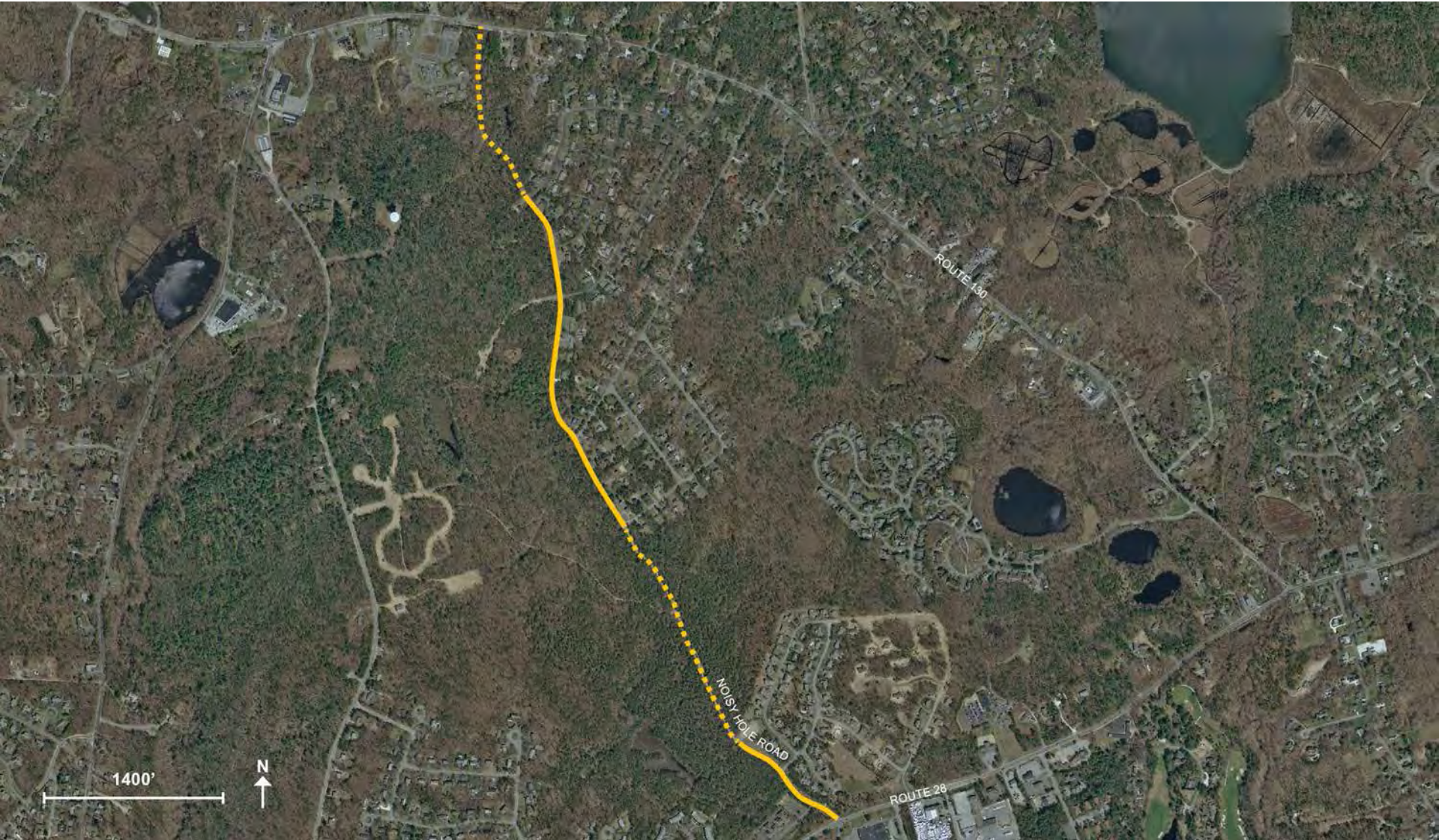


# NOISY HOLE ROAD/TRINITY PLACE INTERSECTION CONCEPTS

- ~~Install a traffic signal or roundabout~~
  - Not warranted based on traffic volumes
- Install left turn pockets on Route 28
- Consider connection to Route 130 using existing town layout

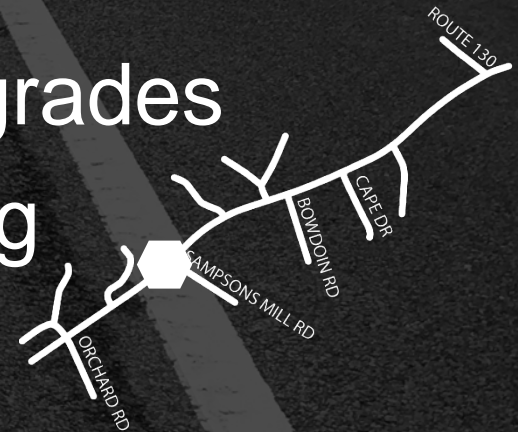


# NOISY HOLE ROAD/TRINITY PLACE CONCEPT CONNECTION TO ROUTE 130



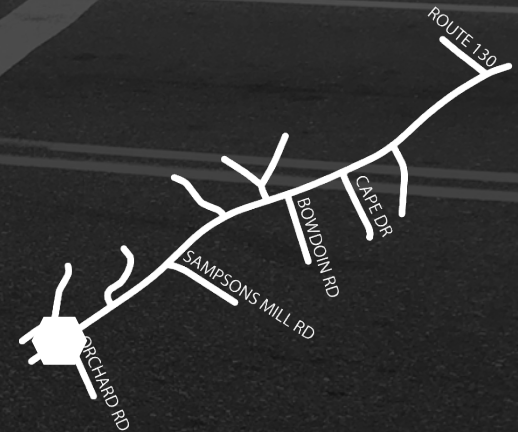
# SAMPSONS MILL ROAD INTERSECTION CONCEPTS

- ~~Left turn restriction~~
  - Not recommended unless better left turn location is provided
- ~~Consider connection to Trinity Place~~
  - Not recommended based on property impacts
- Signage and guardrail upgrades
- Realignment and regrading



# ORCHARD ROAD/ASHERS PATH INTERSECTION CONCEPTS

- Request review of signal timing
- Pedestrian/bicyclist upgrades



# ALTERNATIVES EXERCISE

- Which concepts do you **like** and why?
- Which concepts do you **dislike** and why?
- How do feel each concept fits in the **character** of the area?
- Are there any concepts you like that are **not shown**?
- What is your **priority** for the area?

**Write on the boards around the room or talk to a staff member.**

# NEXT STEPS

- Revise concepts based on input from today's meeting and comments received by October 11<sup>th</sup>
  - October 2017
- Finalize report (post online)
  - November 2017
- Work with the Towns of Mashpee and Barnstable and the Massachusetts Department of Transportation (MassDOT) to:
  - Implement short-term recommendations (1-2 years)
  - Plan for long-term changes (5+ years) – would involve additional public input

# THANK YOU!

For more information:

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