

# A Plan to Improve Bicycling, Pedestrian Facilities, and Transit in Harwich

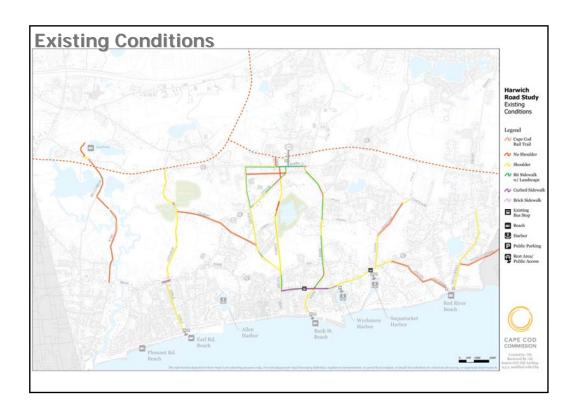
JULY | 2010

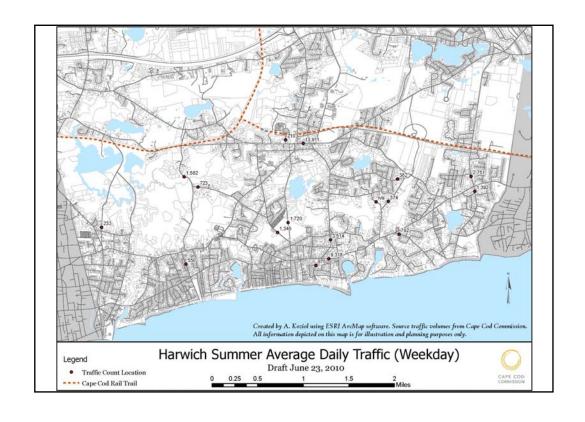
#### **Presentation Overview**

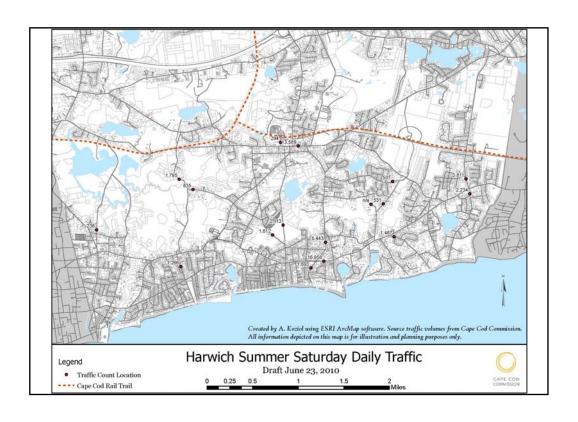


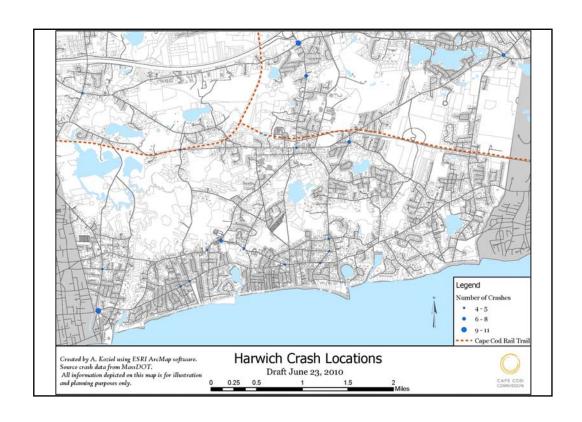
- Existing Conditions/Problem I.D.
- Goals/Vision
- Strategies for Bicycling & Pedestrian
- Strategies for Transit
- "Suggestions"

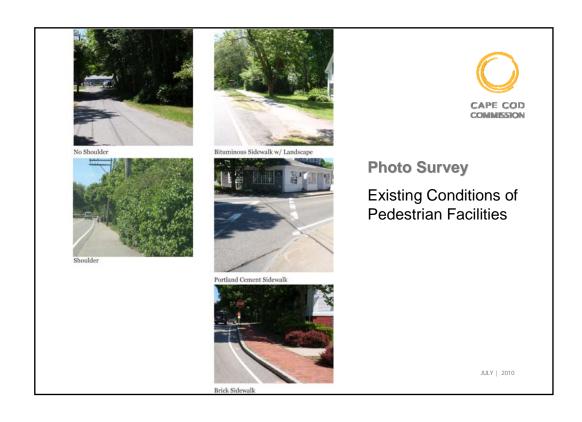


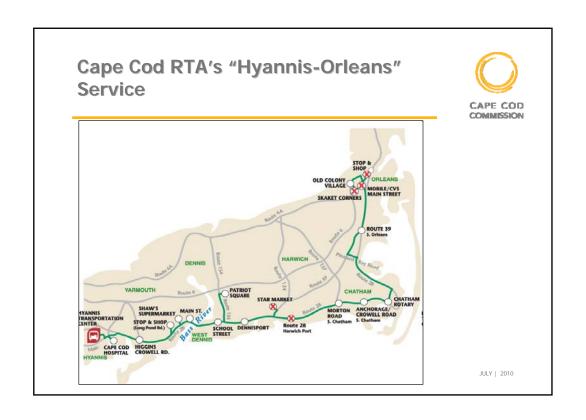


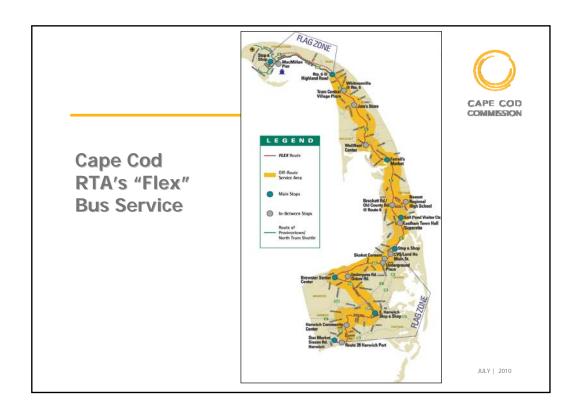


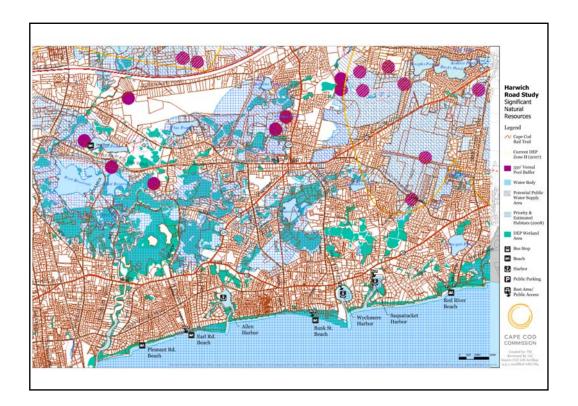










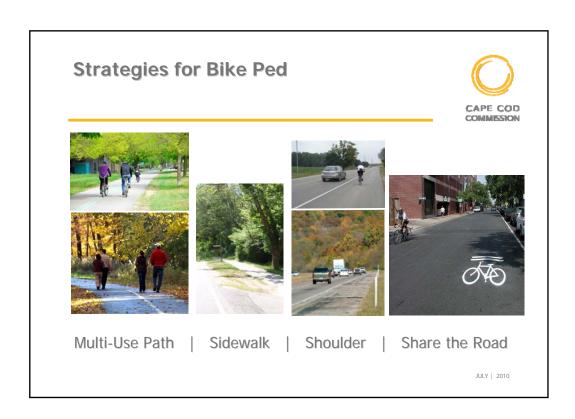


#### Goals/Vision

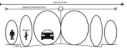


- Identify safe and effective pedestrian and bicycle access between the Rail Trail, Route 28, Harwich Center and Harwich Port and between Wychmere and Saquatucket Harbors and Harwichport along Route 28.
- Identify the potential for shuttle bus service between Wychmere and Saquatucket Harbors.
- Coordinate with the Regional Transportation Plan/Cape Cod Bike Plan.
- Commission staff will work with the Town of Harwich to integrate these bicycle/pedestrian efforts into the current update of the RTP.

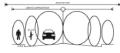
# **Suggested Alternatives**



#### Case 1: Separate Accommodation for All Users



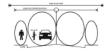
- Often the preferred option to provide safe, convenient, and comfortable
- safe, convision, and comfortable travel for all users. Appropriate for areas with moderate to high levels of pedestrian and bicycle activity. Appropriate for roadways with moderate to high motor vehicle speeds. Appropriate in areas without substantial environmental or right-of-way constraints.



- Used in areas where the width necessary to provide Case 1 accommodation is not available. Under Case 2, pedestrians are provided with a sidewalk or separate path while space for bicyclists and drivers overlap somewhat.
- what. priate in areas with low motor e speeds and low to moderate vehicle volumes.

### MassHighway **Design Manual**

#### Case 3: Shared Bicycle/Motor Vehicle Accommodation





- Under Case 4, pedestrians and bicyclists share the shoulder. Common in rural or sparsely developed
- areas. Appropriate for areas with infrequent pedestrian and bicycle use.



- Under Case 5, all users share the roadway.

  Appropriate where user demands and motor vehicle speeds are very low or when severe constraints limit the feasibility of providing separate accommodation.

2006 EDITION



Exhibit 5-12 Widths of Usable Shoulders (In Feet)

Area Type	Roadway Type			
	Freeways <sup>1</sup>	Arterials <sup>2</sup>	Collectors <sup>2</sup>	Local Roads
Rural Natural	10 to 12	4 to 12	4 to 10	2 to 8
Rural Developed	10 to 12	4 to 12	4 to 10	2 to 8
Rural Village	N/A	4 to 12	4 to 10	2 to 8
Suburban Low Density	10 to 12	4 to 12	4 to 10	2 to 8
Suburban High Density	10 to 12	4 to 12	4 to 10	2 to 8
Suburban Village/Town Center	N/A	4 to 12	4 to 10	2 to 8
Urban	10 to 12	4 to 12	4 to 10	2 to 8

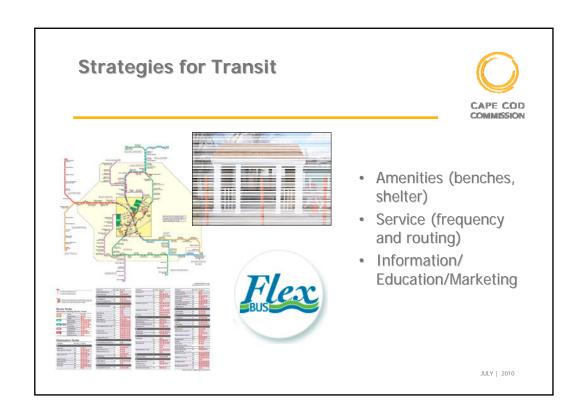
- Cource: Piezibility in Highway Design, AASHTD 2004. Chapter 6 Cross Section Elements

  1. Left shoulders are required on Freeways and other divided roadways. See the AASHTD Creen Book for left-shoulder guidance.

  2. Shoulder widths less than the values shown above may be used if a design exception is obtained. See Chapter 2 for a description of the design exception procedure. Stuations where narrower shoulders may be considered are described below. cersw.

  Note: An additional 2-loot offset from the edge of the shoulder is required to vertical elements over 6-inches in height (such as guardrail).

Minimum 4-foot shoulders are recommended for all arterials and collectors because of the value they provide for bicycle and pedestrian (particularly in rural areas) accommodation, and motor vehicle safety. If a design exception is obtained, shoulders narrower than 4 feet may be used in constrained areas where separate pedestrian accommodation is provided and shared bicycle/motor vehicle accommodation is suitable.





## **Potential Improvements:** Potential Rest/Wayfinding Area







Potential Rest/ Wayfinding Area Island Pond at the Cape Cod Rail Trail

- Rest Area adjacent to Rail Trail
- Wayfinding Kiosk with Maps and Directional Signage
- Pedestrian Amenities (Bench, Trash, Bike Racks)
- Identify Walking paths on Kiosk maps
  - North Street from Bells Neck to Route 28
  - Thompson's Field from Route 39 to Chatham Road

JULY | 2010

### **Potential Improvements:** Potential Viewing Platform



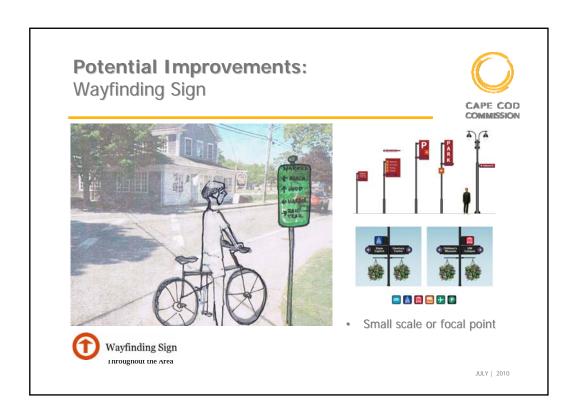




- Low Impact Development
- Areas for Demonstration Native Plant Gardens
- Interpretive Signage



Potential Viewing Platform Forest Street at Grassy Pond Bird



# **Potential Improvements:** Bus Shelters





- At selected locations along Route 28:
  - Information Center
  - Harbors

### **Potential Improvements**



#### Designated routes:

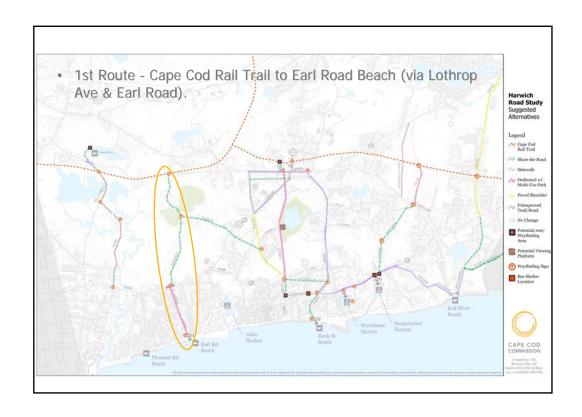
- To be shown on maps installed in kiosks with on-road signage.
- Each route should be signed appropriately in each direction (e.g., using smaller bike route signs).
- Routes are defined by end points and paths along roadways and a listed here from west to east.

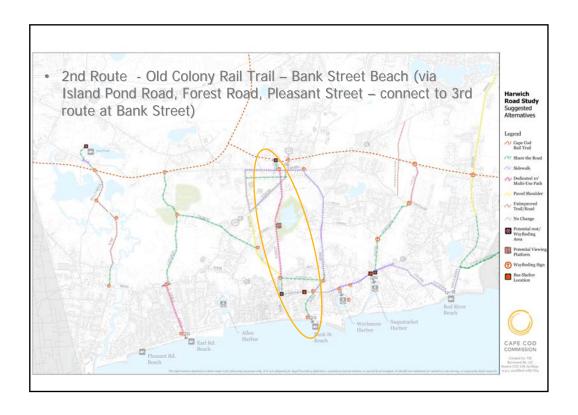
JULY | 2010

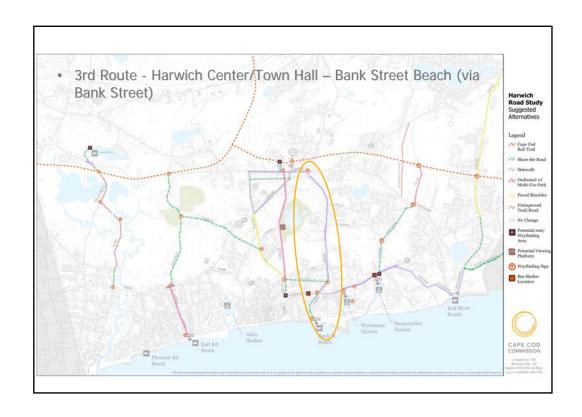
#### **Potential Improvements**

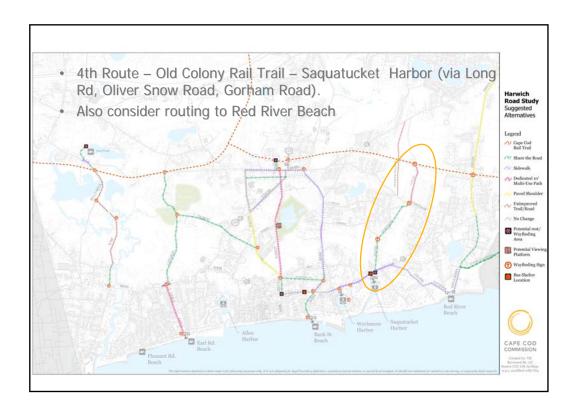


- 1st Route Cape Cod Rail Trail to Earl Road Beach (via Lothrop Ave & Earl Road).
- 2nd Route Old Colony Rail Trail Bank Street Beach (via Island Pond Road, Forest Road, Pleasant Street - connect to 3rd route at Bank Street)
- 3rd Route Harwich Center/Town Hall Bank Street Beach (via Bank Street)
- 4th Route Old Colony Rail Trail Saquatucket Harbor (via Long Rd, Oliver Snow Road, Gorham Road).
- · Also consider routing to Red River Beach









## For Information or Input...



## Contact CCC Transportation Staff:

#### **Cape Cod Commission**

3225 Main Street Barnstable MA 02630 Tel: (508) 362-3828

Fax: (508) 362-3136

Email: trans@capecodcommission.org



# **Get More Information at the Transportation Dept. Website:**

www.gocapecod.org

