

# NAHANT BEACH REHABILITATION



Lynn and  
Nahant  
Roadway  
The half way  
Tree

## PUBLIC MEETING

April 17, 2008



department of Conservation and Recreation

# MAJOR DESIGN ISSUES

- Road & drainage repairs
- Poor sight lines
- No breakdown lane or shoulder
- Excessive height of median barrier
- Seawall & revetment repairs
- Poor entry/exit configuration
- Pedestrian safety
- Lack of visual character

# MAJOR GOALS

## Rehabilitation of Historic Parkway

- ✓ Traffic calming & safety
- ✓ Pedestrian improvements
- ✓ Aesthetic improvements

## Upgrade Reservation Identity

- ✓ Entry
- ✓ Exit

## Resource Protection

- ✓ Reconstruction of revetment
- ✓ Limited dune restoration
- ✓ Storm water BMPs





















dcr 

*department of* Conservation and Recreation







Roadway



Southbound

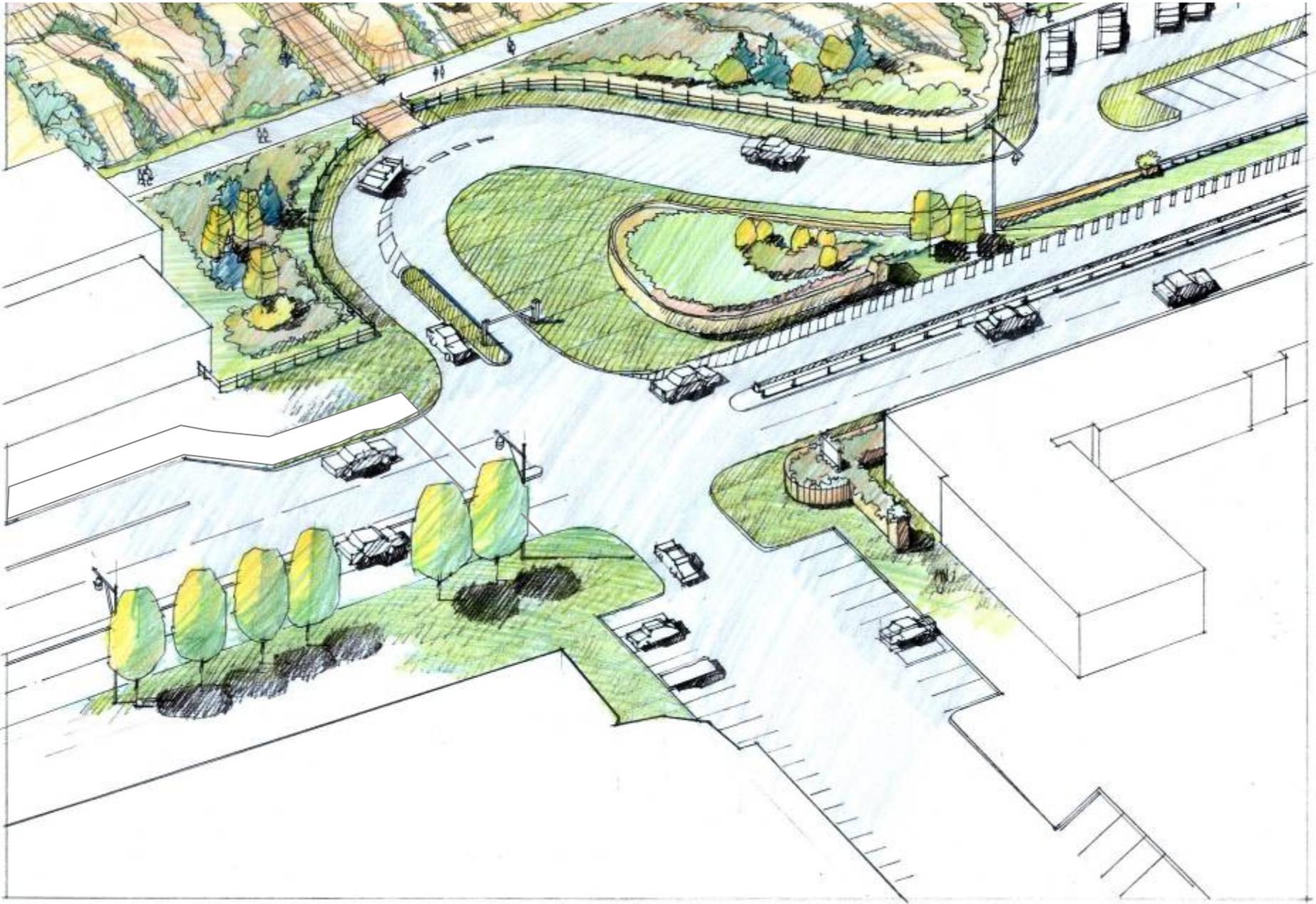


# Reservation Gateway

- No sense of gateway
- Unclear circulation
- Excessive pavement
- Lack of character

# Gateway Improvements





# Section B-B

NAHANT BEACH

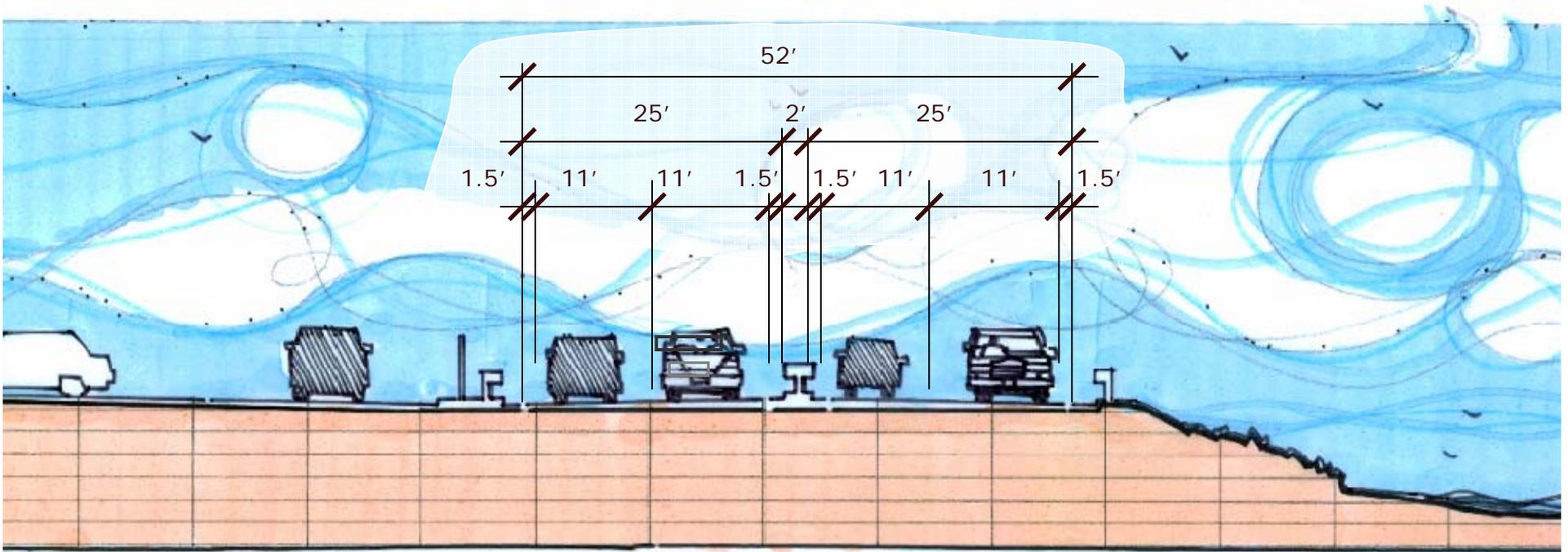
RESTORED SAND DUNE

CONTROLLED BEACH ACCESS



PROPOSED MEDIAN WITH TIMBER RAIL

# Section B-B



✓ Section Length = 0.65 Miles (3,400 LF)

# 1907 Light Fixture



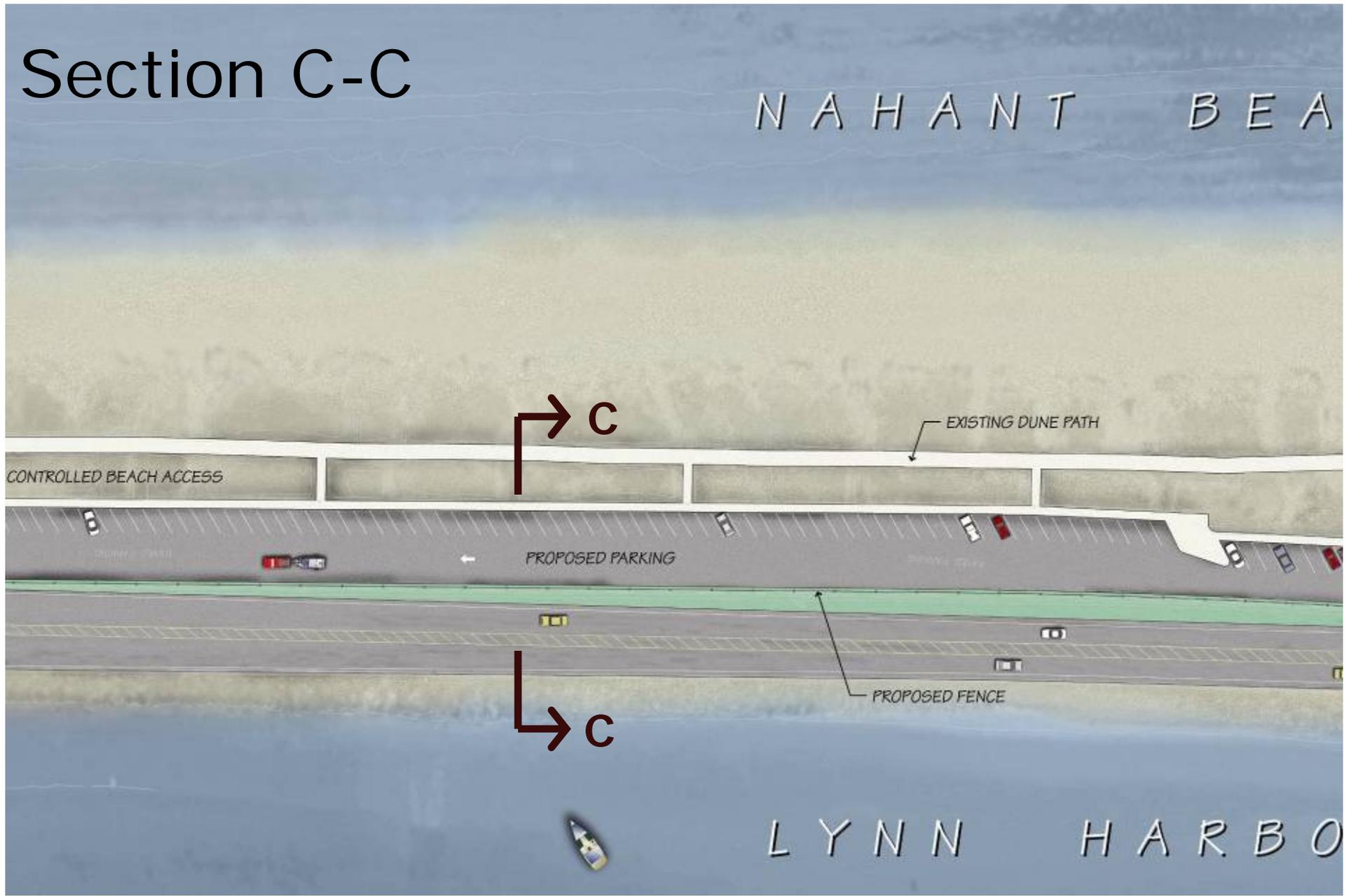
# Steel Backed Timber Guardrail



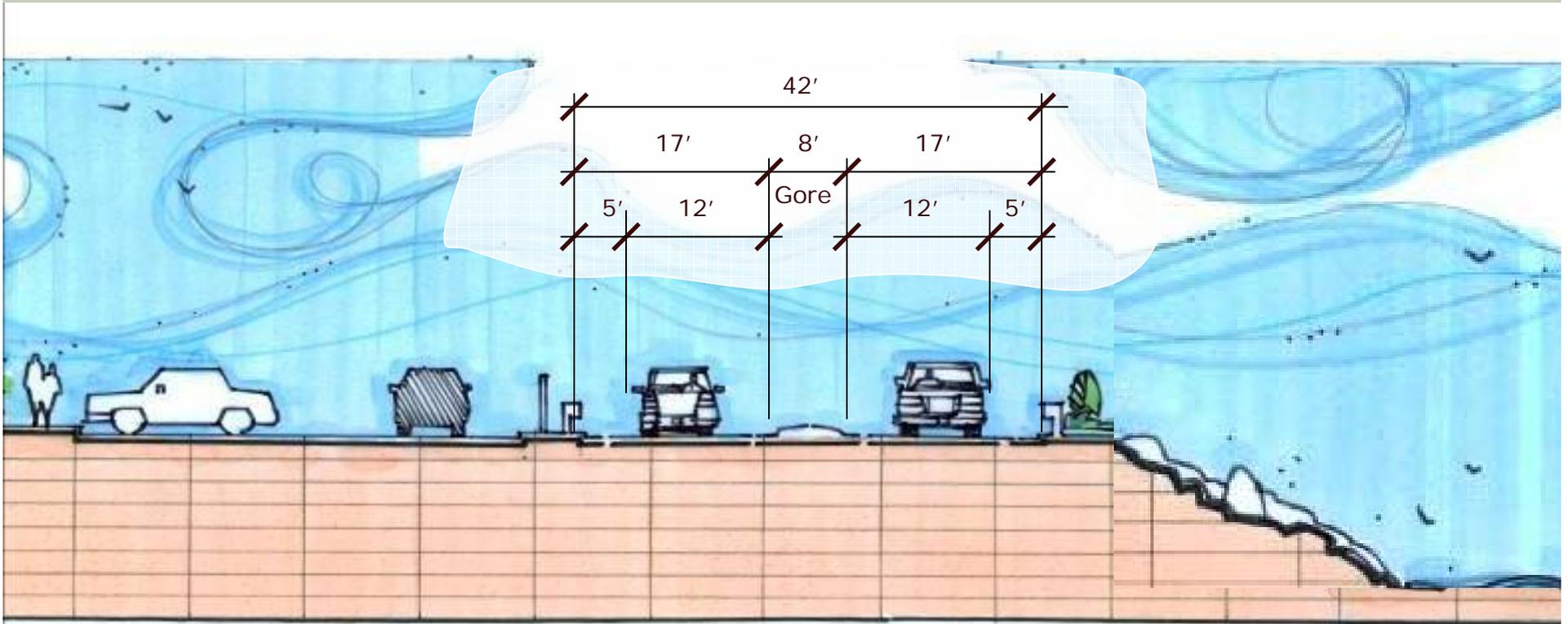


- Road waggles
- Channelized - No integration
- Sparse vegetation

# Section C-C



# Section C-C



✓ Section Length = 0.19 miles (1,000 LF)

# Parkway Examples





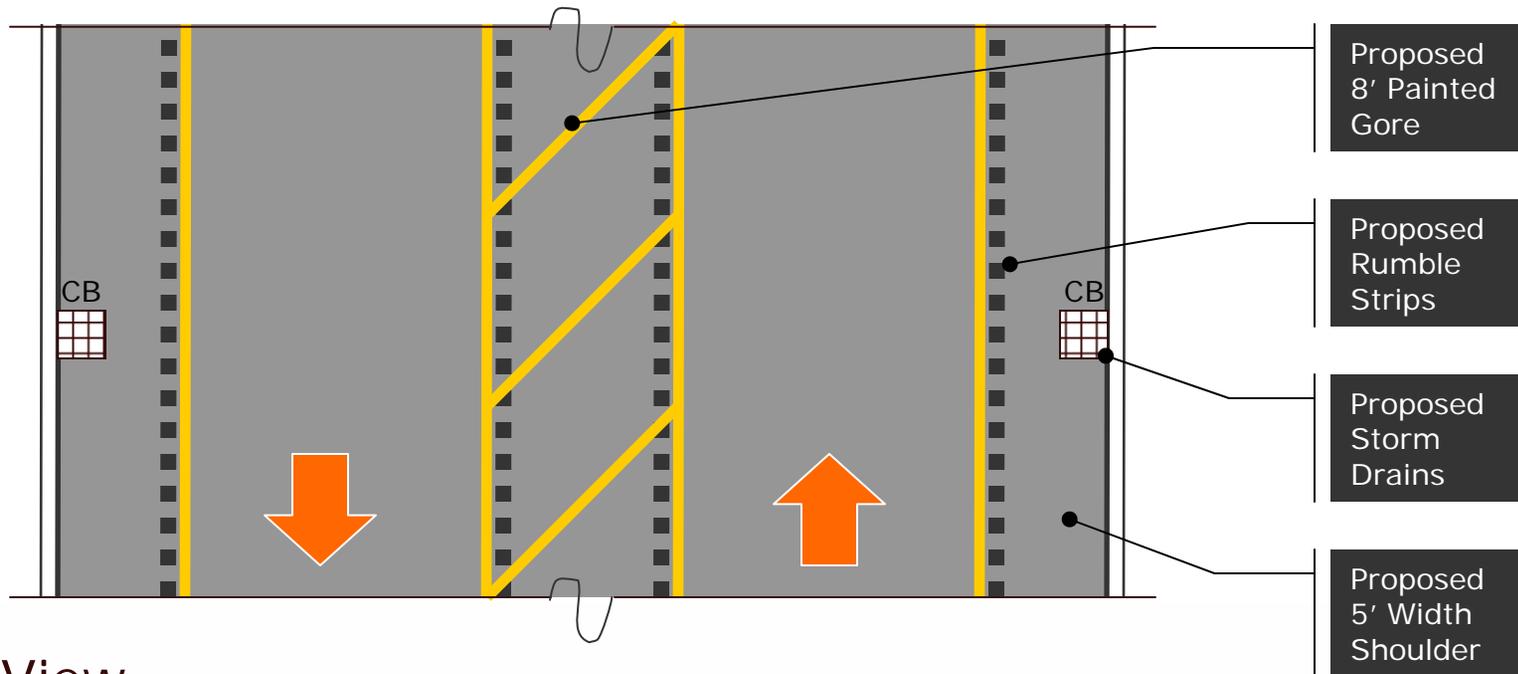




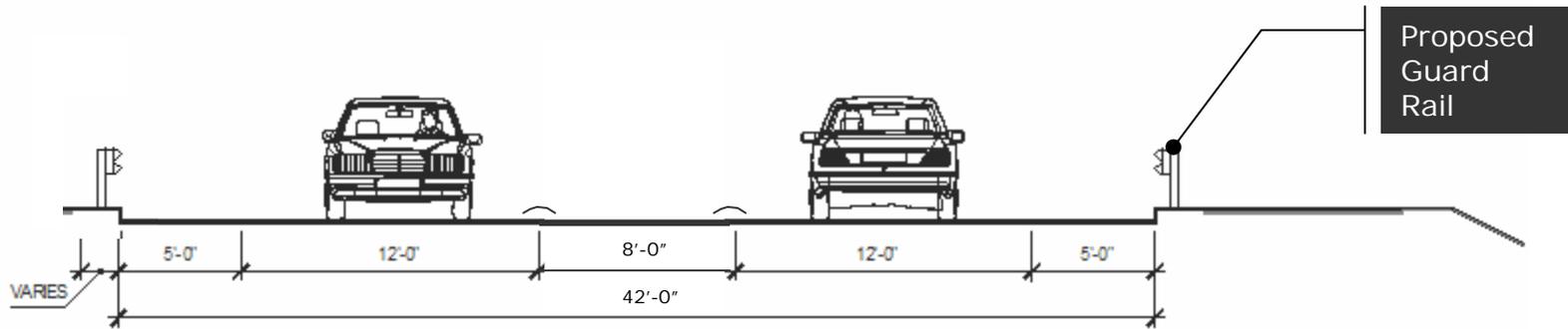
Proposed  
4 Lane  
Roadway

Proposed  
2 Lane  
Roadway

Existing  
2 Lane  
Roadway



Plan View



Section







# Traffic Data

## Off Season, Daily Traffic Volumes

Nahant Beach Parkway	Average Daily Traffic (vpd)	Average Daily Directional Traffic (vpd)	Average Daily Directional Traffic
WEEKDAY	10,109	5,086 (SB)	50% (SB)
		5,023 (NB)	50% (NB)
SATURDAY	10,659	5,296 (SB)	50% (SB)
		5,363 (NB)	50% (NB)
SUNDAY	9,879	4,808 (SB)	49% (SB)
		5,071 (NB)	51% (NB)

# Traffic Data

Off Season, Peak Hour Traffic Volumes

Nahant Beach Parkway	Peak Hour Traffic (vph)	Percentage Distribution	Peak Hour Traffic (vph)
MORNING	693	SB 24%	165 (SB)
		NB 76%	528 (NB)
EVENING	760	SB 63%	481 (SB)
		NB 37%	279 (NB)
SATURDAY	861	SB 53%	456 (SB)
		NB 47%	405 (NB)
SUNDAY	938	SB 52%	487 (SB)
		NB 48%	451 (NB)

# Traffic Data

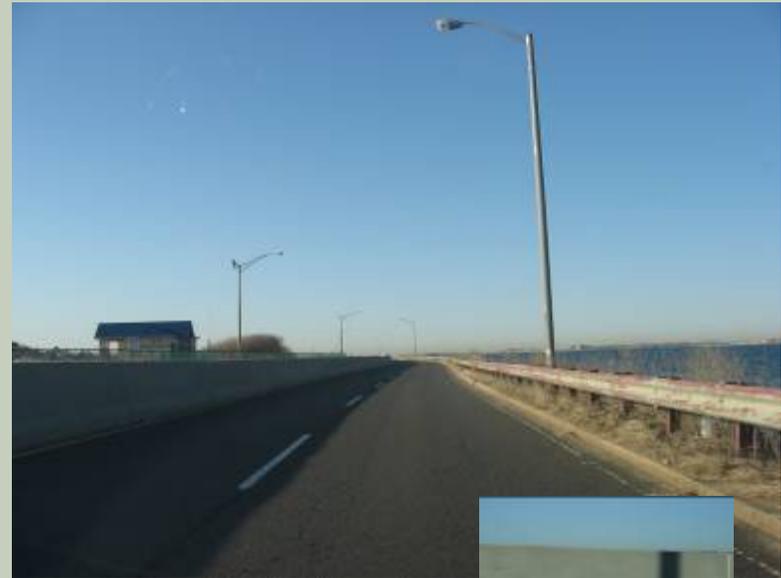
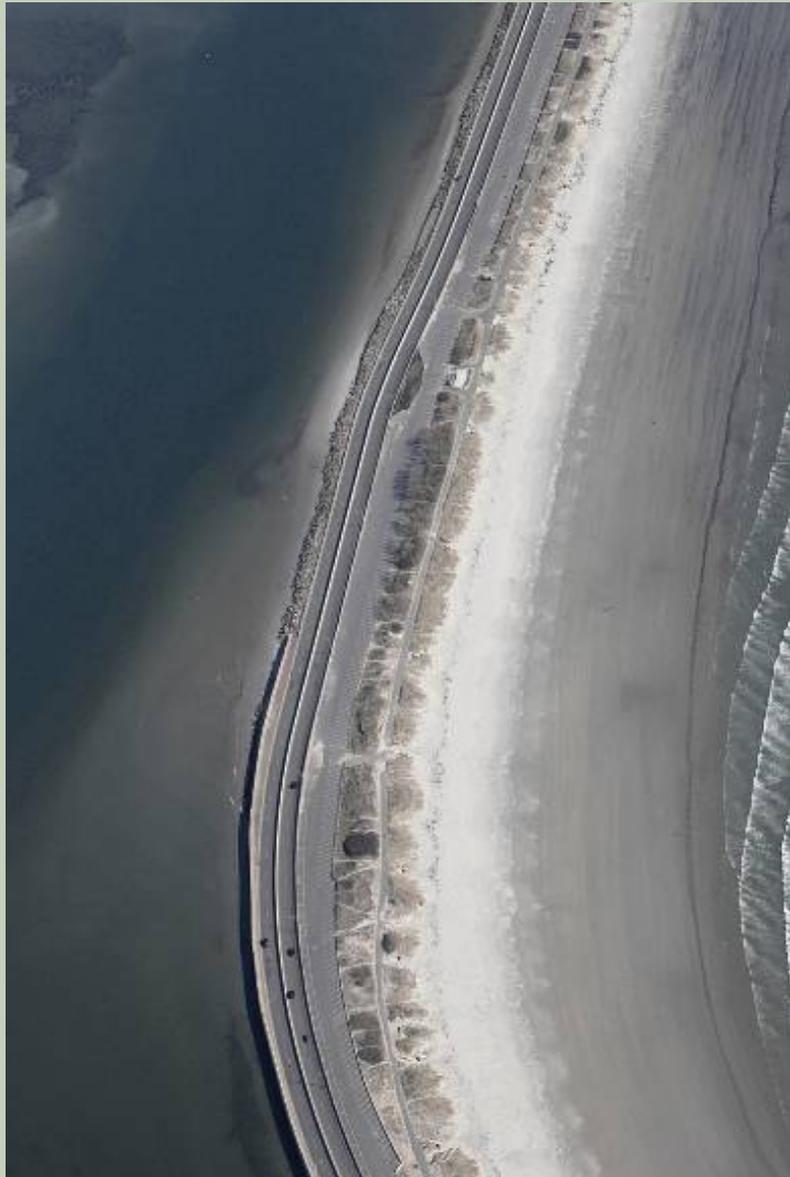
Peak Season, Daily Traffic Volumes

Nahant Beach Parkway	Average Daily Traffic (vpd)	Average Daily Directional Traffic (vpd)	Average Daily Directional Traffic
WEEKDAY	13,724	7,326 (SB)	53% (SB)
		6,398 (NB)	47% (NB)
SATURDAY	11,521	5,915 (SB)	51% (SB)
		5,606 (NB)	49% (NB)
SUNDAY	10,840	5,662 (SB)	52% (SB)
		5,178 (NB)	48% (NB)

# Traffic Data

Peak Season, Peak Hour Traffic Volumes

Nahant Beach Parkway	Peak Hour Traffic (vph)	Percentage Distribution	Peak Hour Traffic (vph)
MORNING	915	SB 57%	523 (SB)
		NB 43%	392 (NB)
EVENING	926	SB 67%	623 (SB)
		NB 33%	303 (NB)
SATURDAY	903	SB 56%	505 (SB)
		NB 44%	398 (NB)
SUNDAY	921	SB 55%	509 (SB)
		NB 45%	412 (NB)



IT BEACH

DUNE PATH

STONE RETAINING WALL

EXISTING COMFORT STATION

SPLIT RAIL FENCE

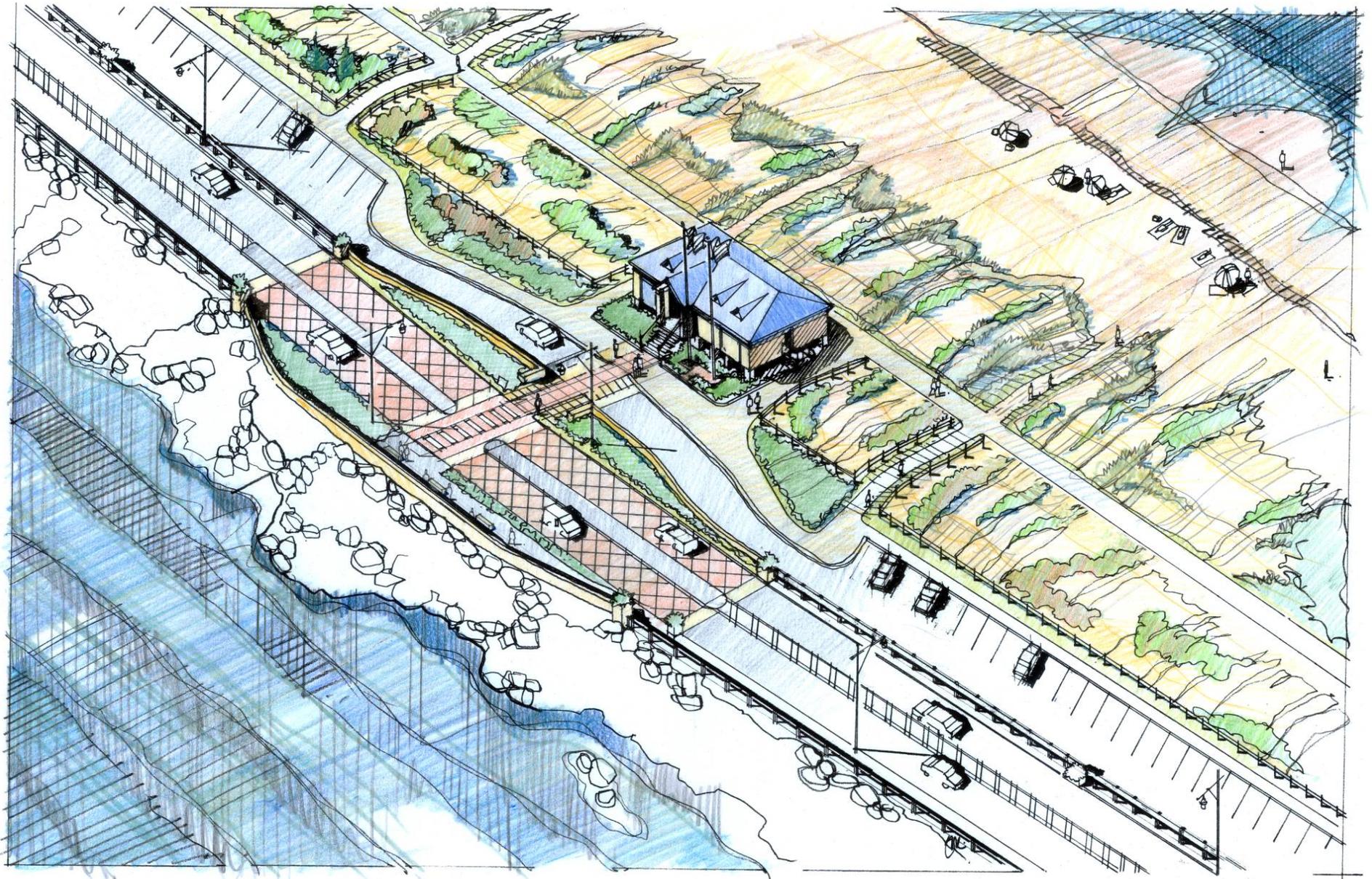
HARBOR

STAMPED COLORED ASPHALT

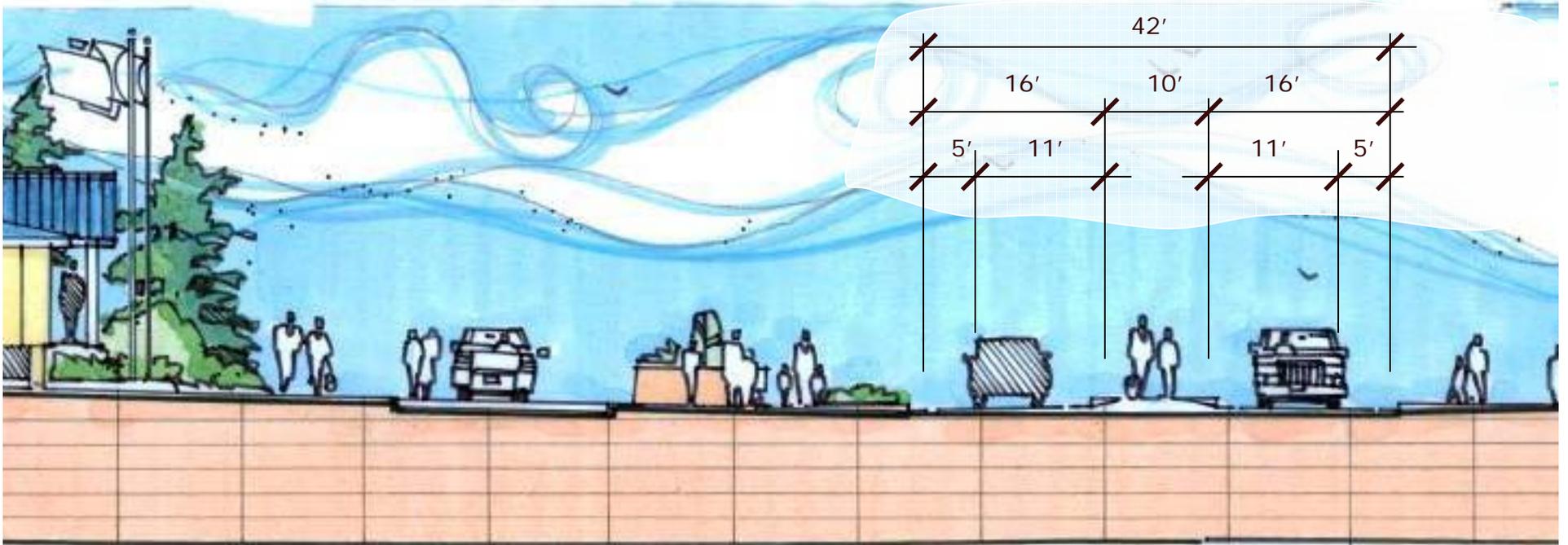
RIP RAP

DEMARKATED CROSSWALK

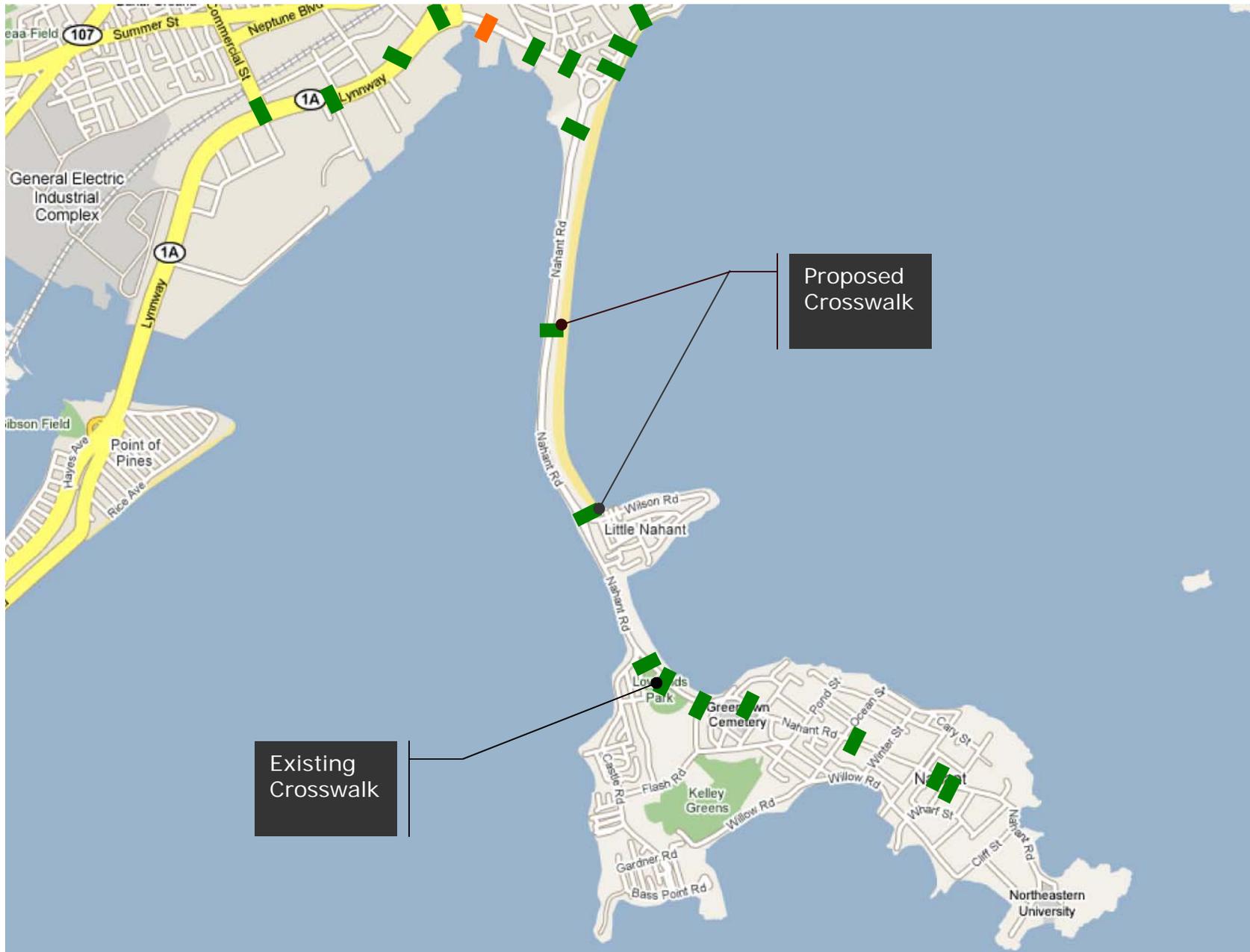
PROPOSED



# Section D-D



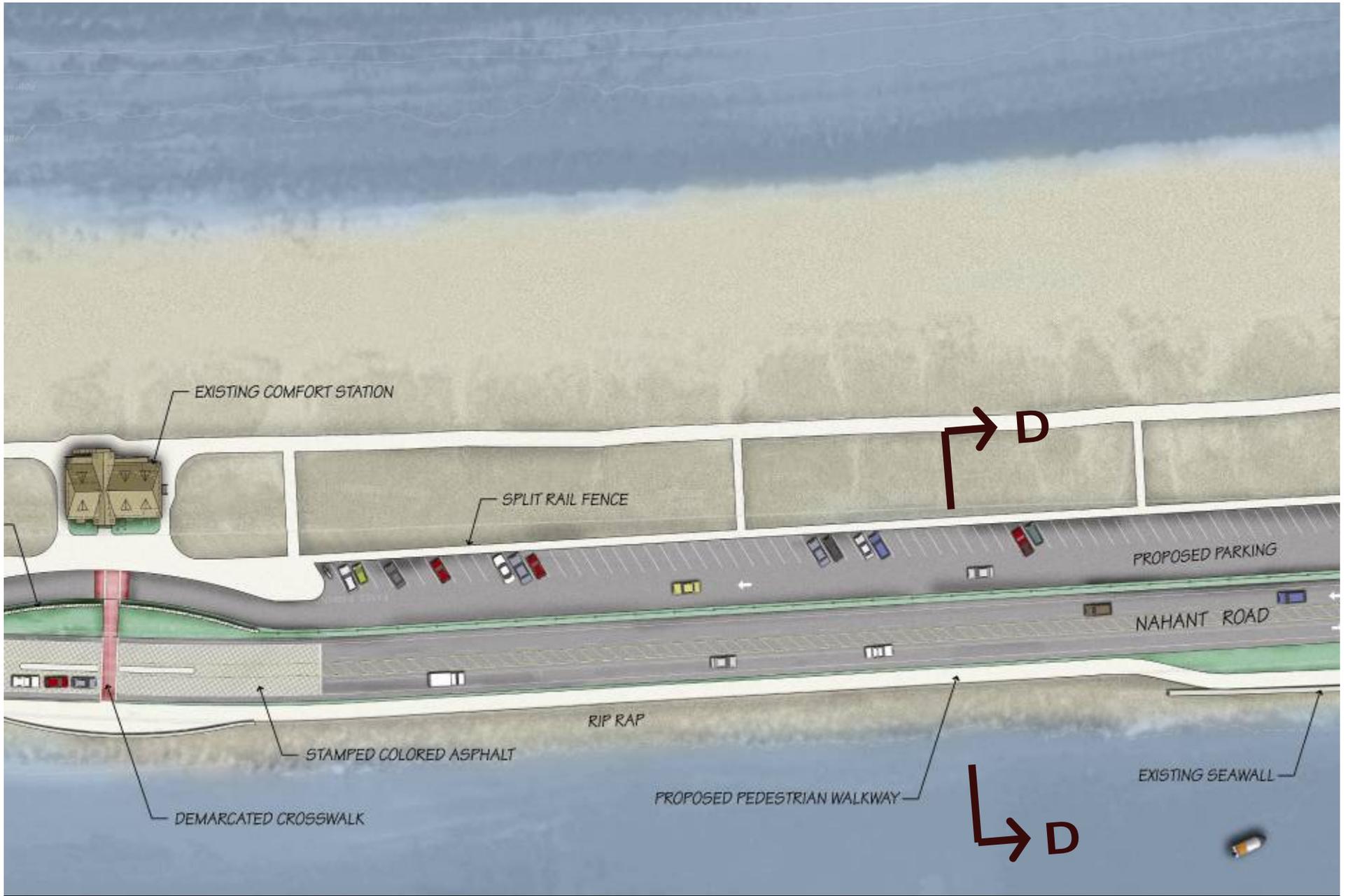
✓ Section Length = 250 LF



Proposed Crosswalk

Existing Crosswalk





- 
- ✓ 1 ½ mile pedestrian loop
  - ✓ Site line improvements
  - ✓ Stormwater management
  - ✓ Snow management
  - ✓ Begin left turn lane

# Section E-E

NAHANT BEACH

UNLIM-  
ITED  
ACCESS



SPLIT RAIL FENCE

EXISTING DUNE PATH

PROPOSED PARKING

EXISTING  
SEAWALL



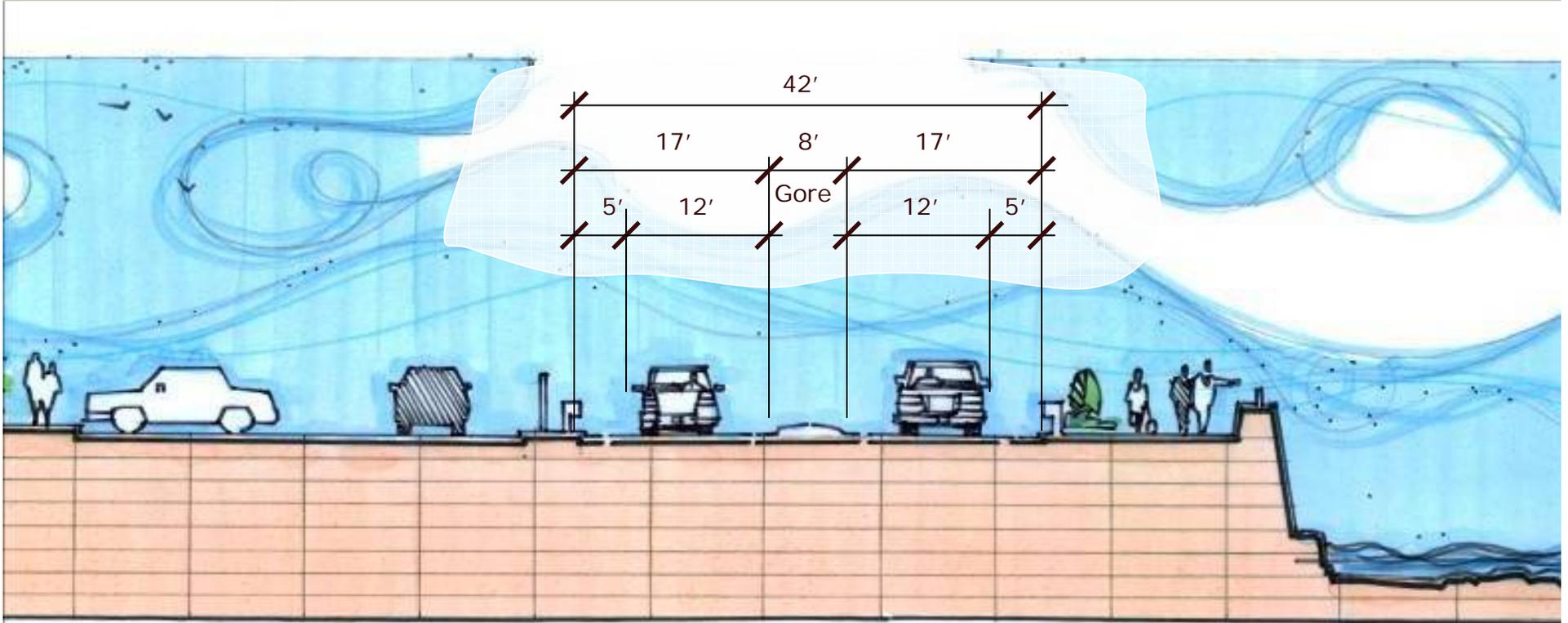
REVEMENT IMPROVEMENTS

LYNN HARBOR



department of Conservation and Recreation

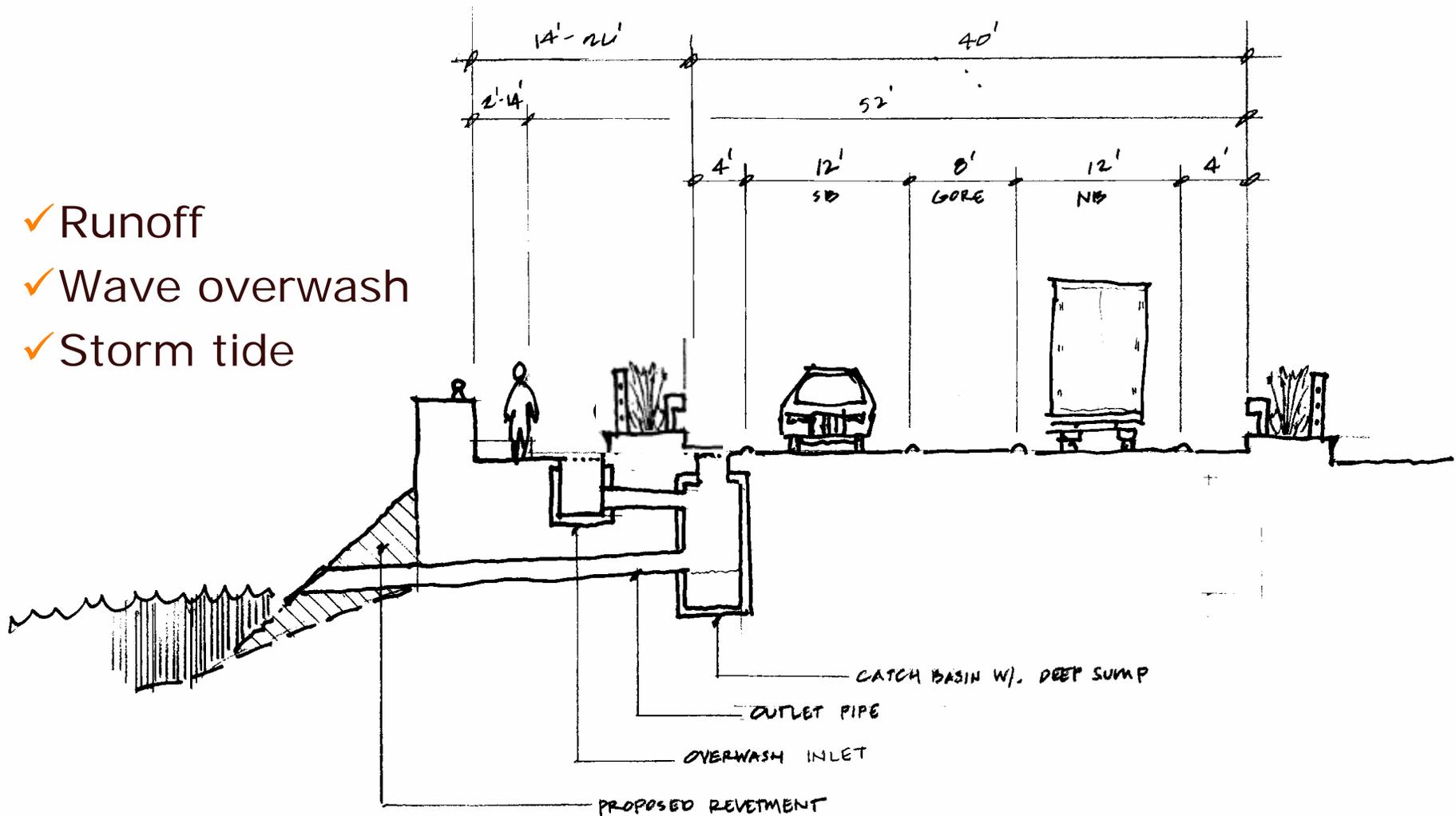
# Section E-E



✓ Section Length = 0.28 miles (1,500 LF)

# Stormwater Management

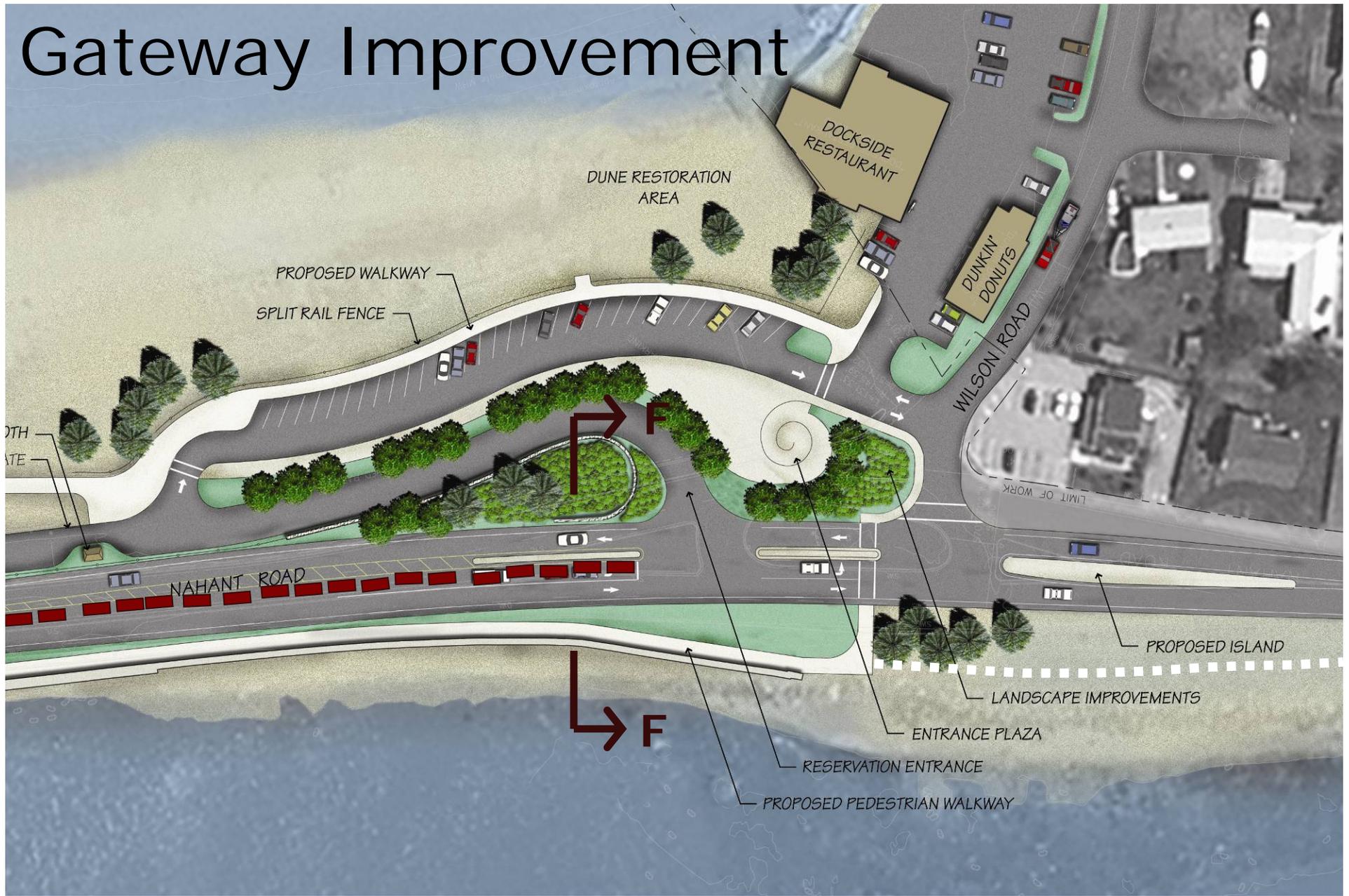
- ✓ Runoff
- ✓ Wave overwash
- ✓ Storm tide

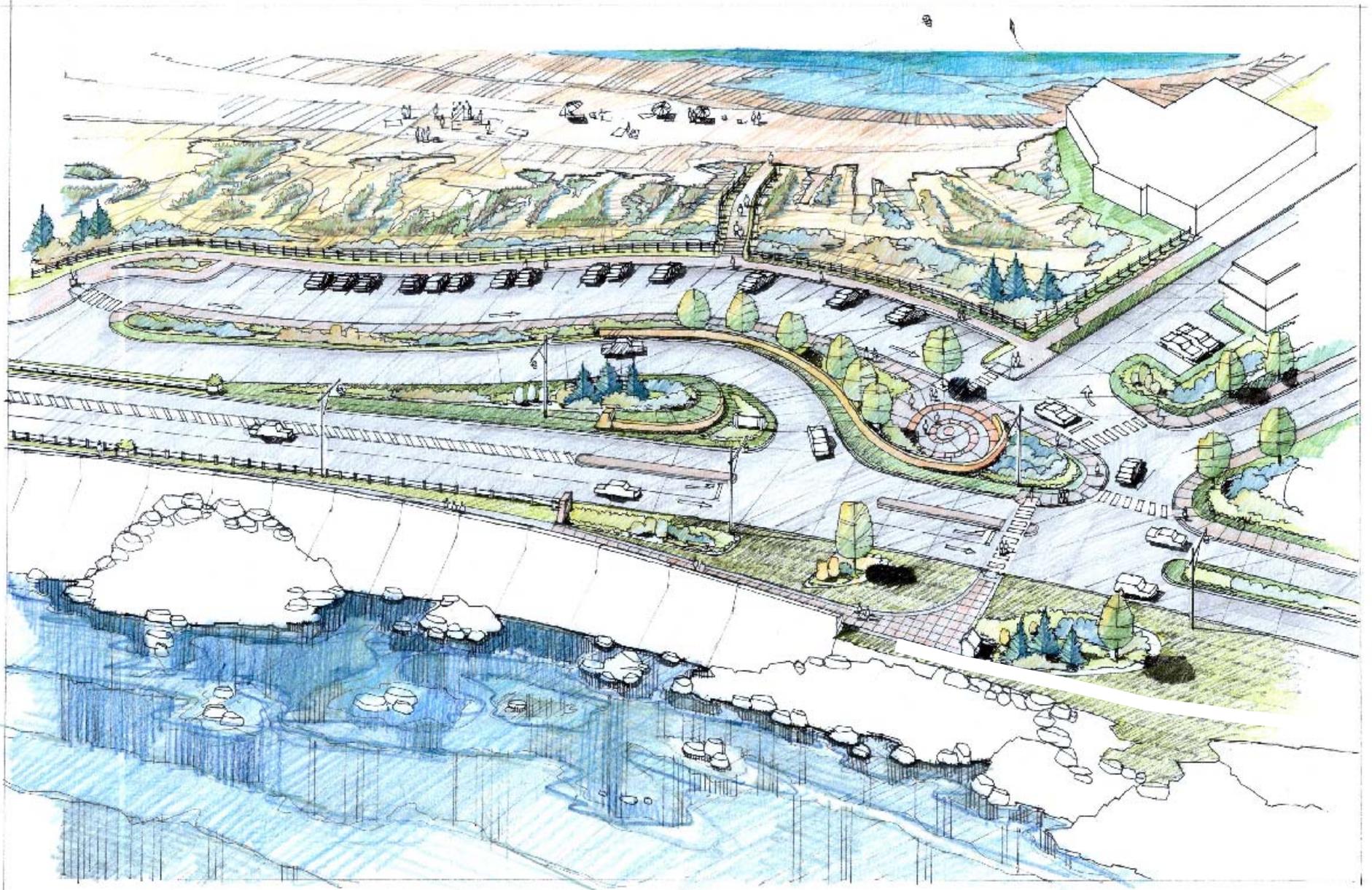


# Reservation / Nahant Gateway

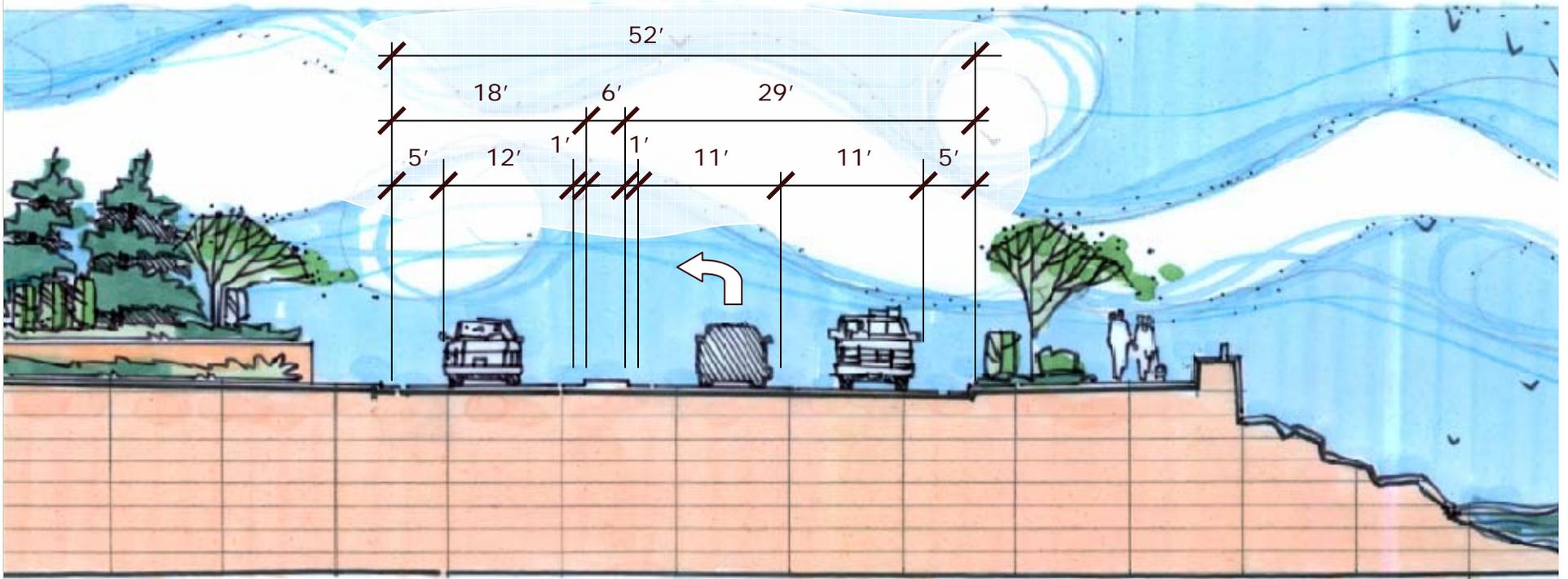


# Gateway Improvement





# Section F-F



✓ Section Length = 0.22 miles (1,200 LF)

Reservation



Northbound

# Reservation Gateway

- ✓ Unclear circulation
- ✓ Lack of character

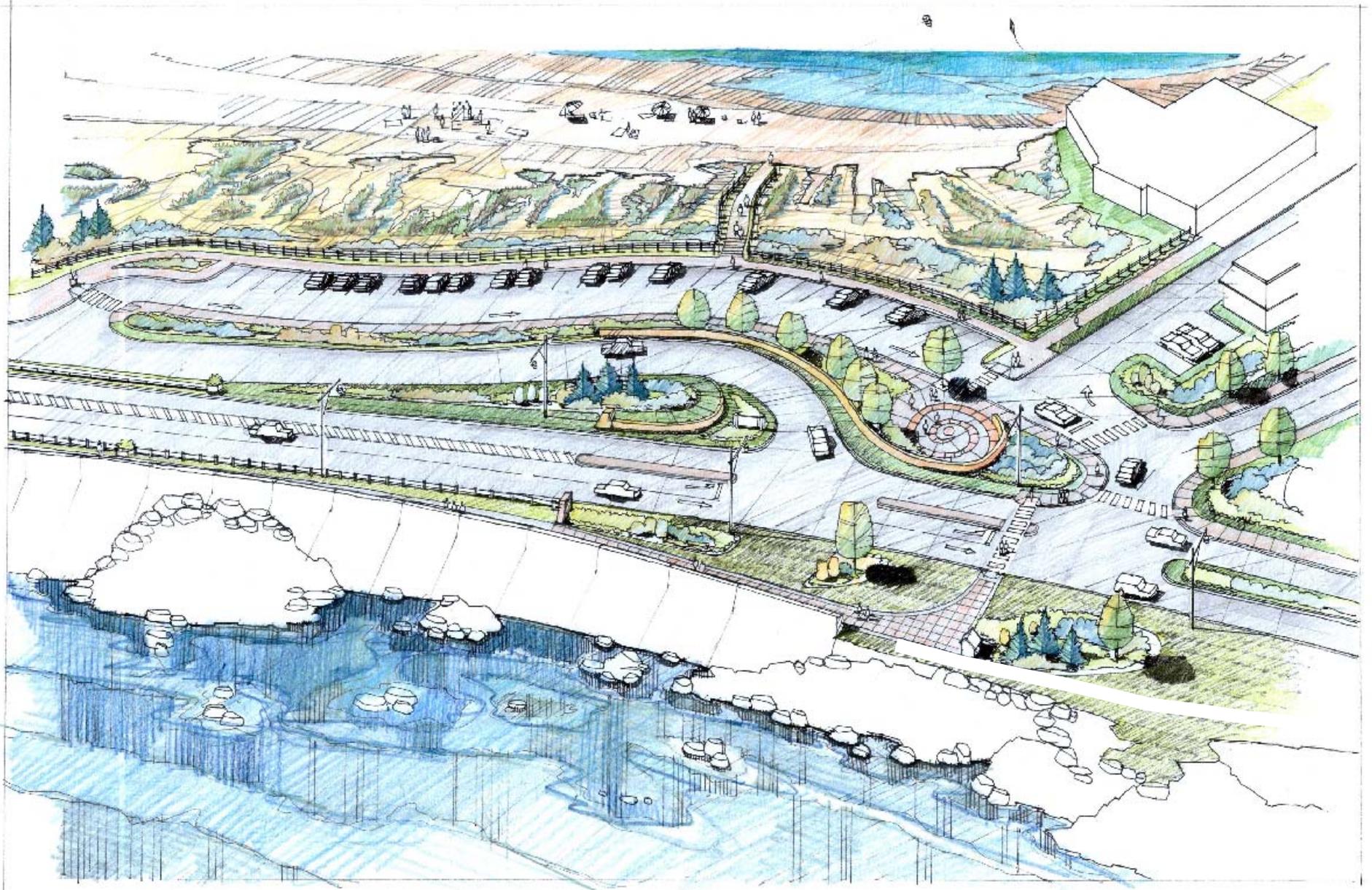




# Entrance Improvements

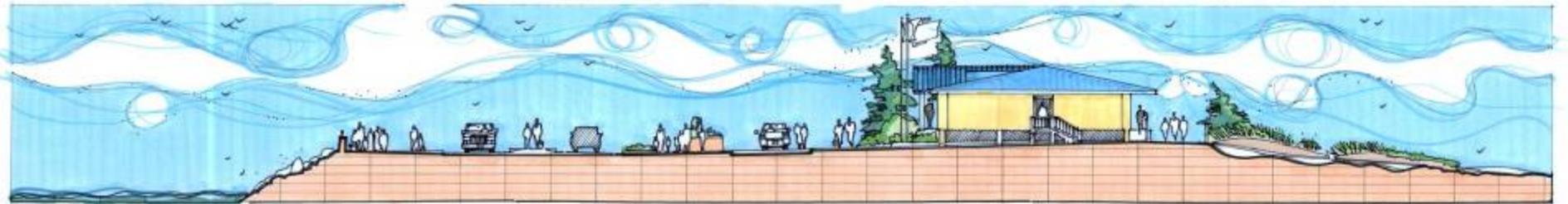
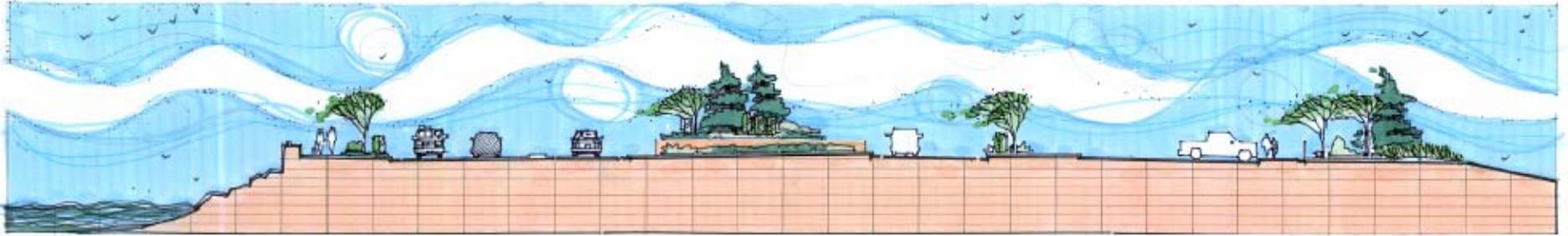
✓ 33 spaces

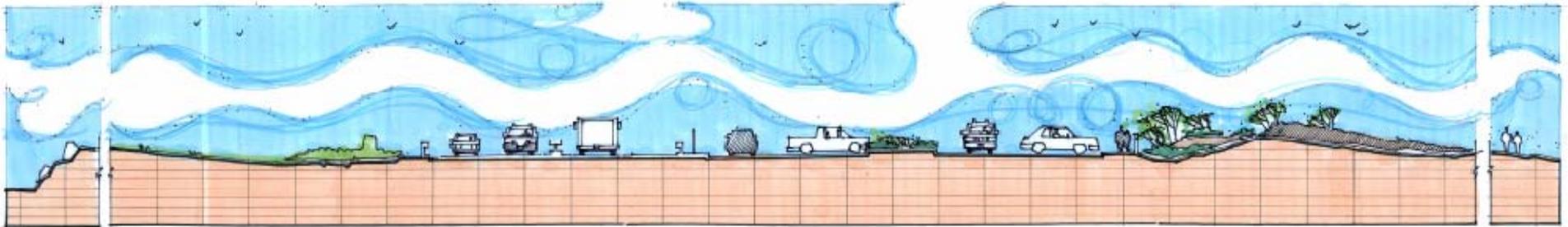
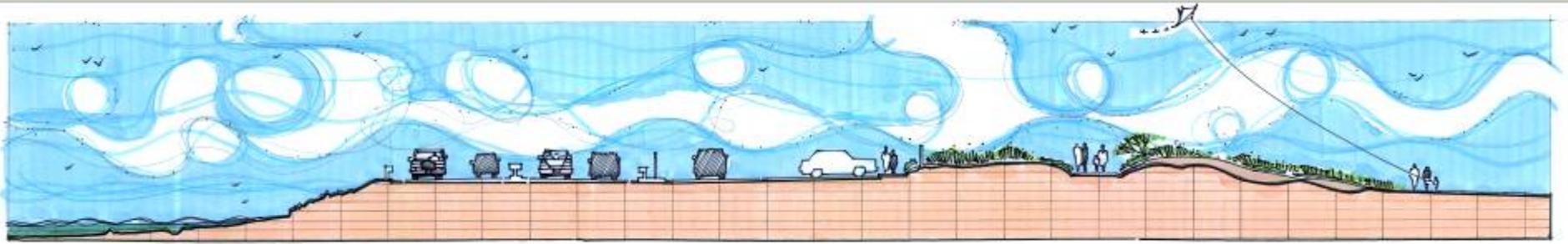




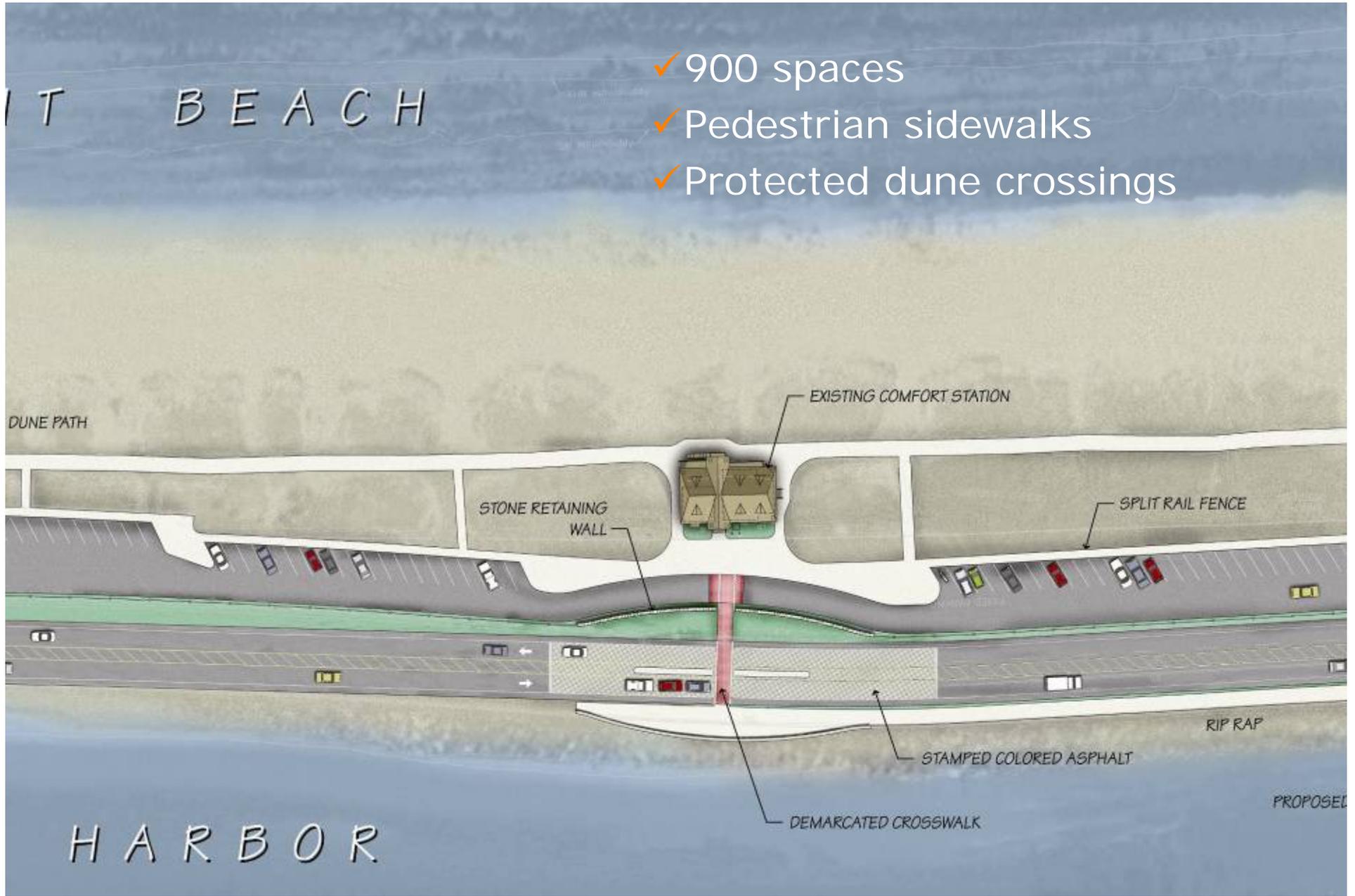


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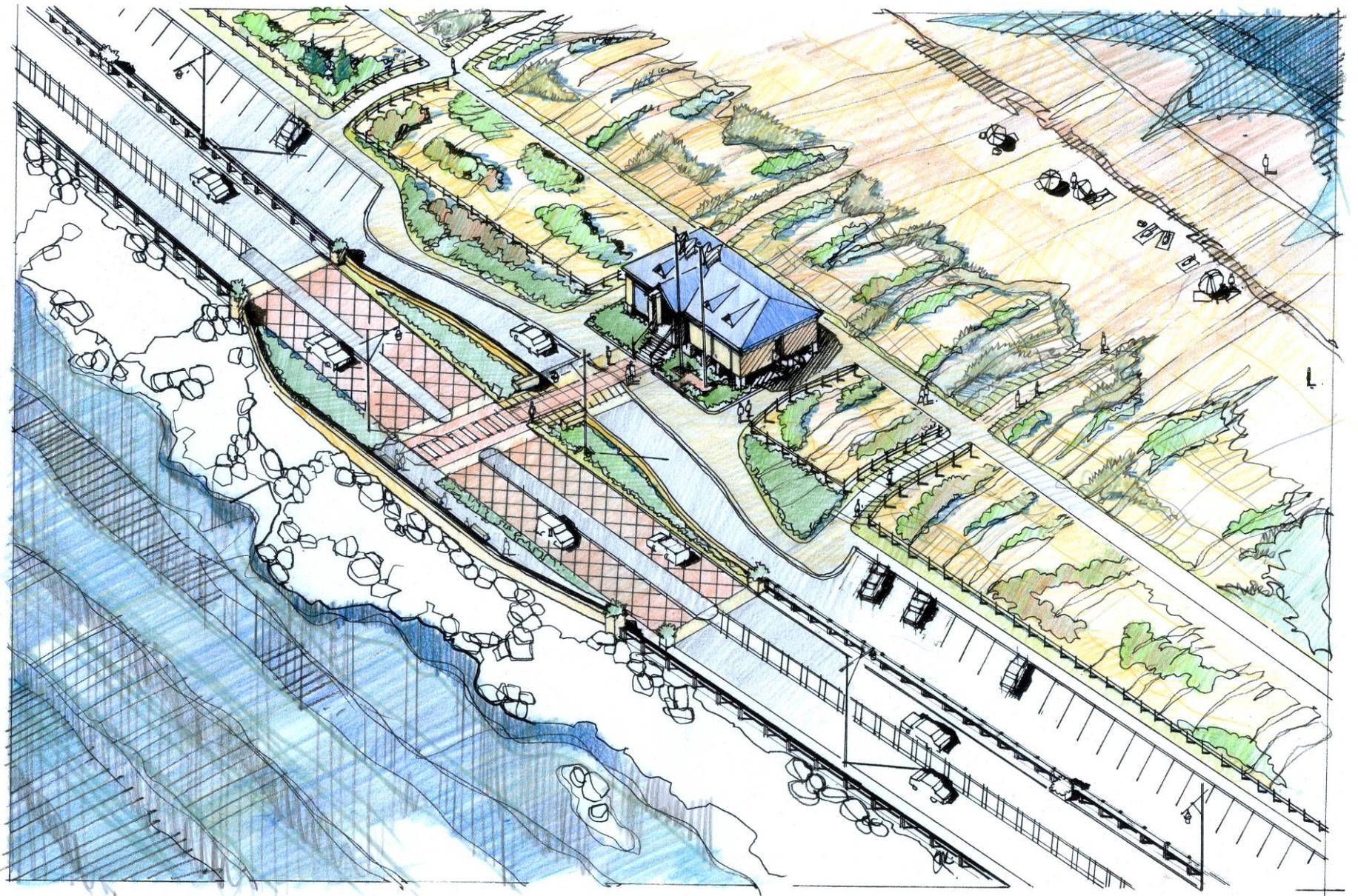


- ✓ 900 spaces
- ✓ Pedestrian sidewalks
- ✓ Protected dune crossings





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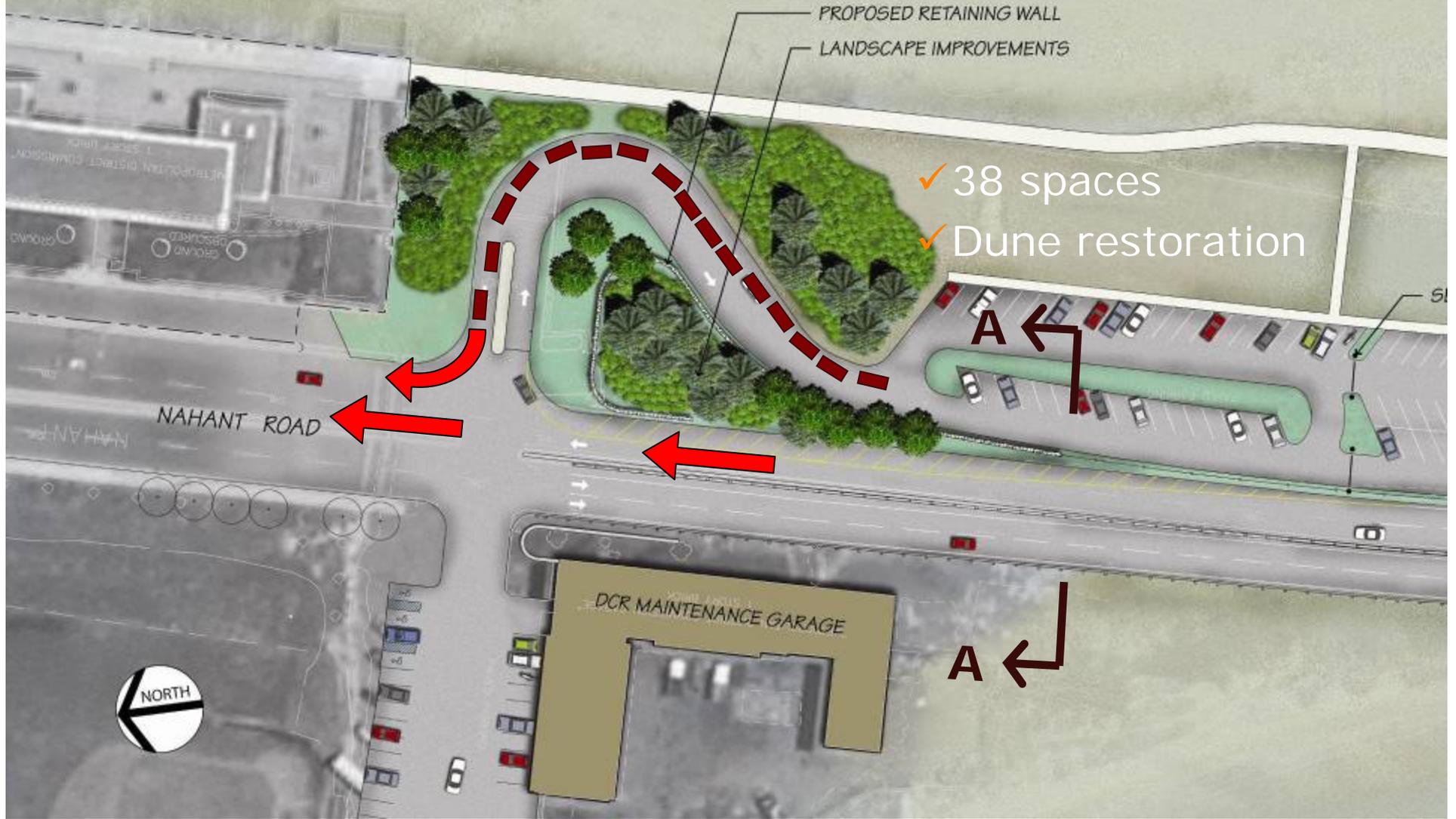
# Reservation Exit

- Poor sight lines
- Unsafe merge
- Unclear circulation



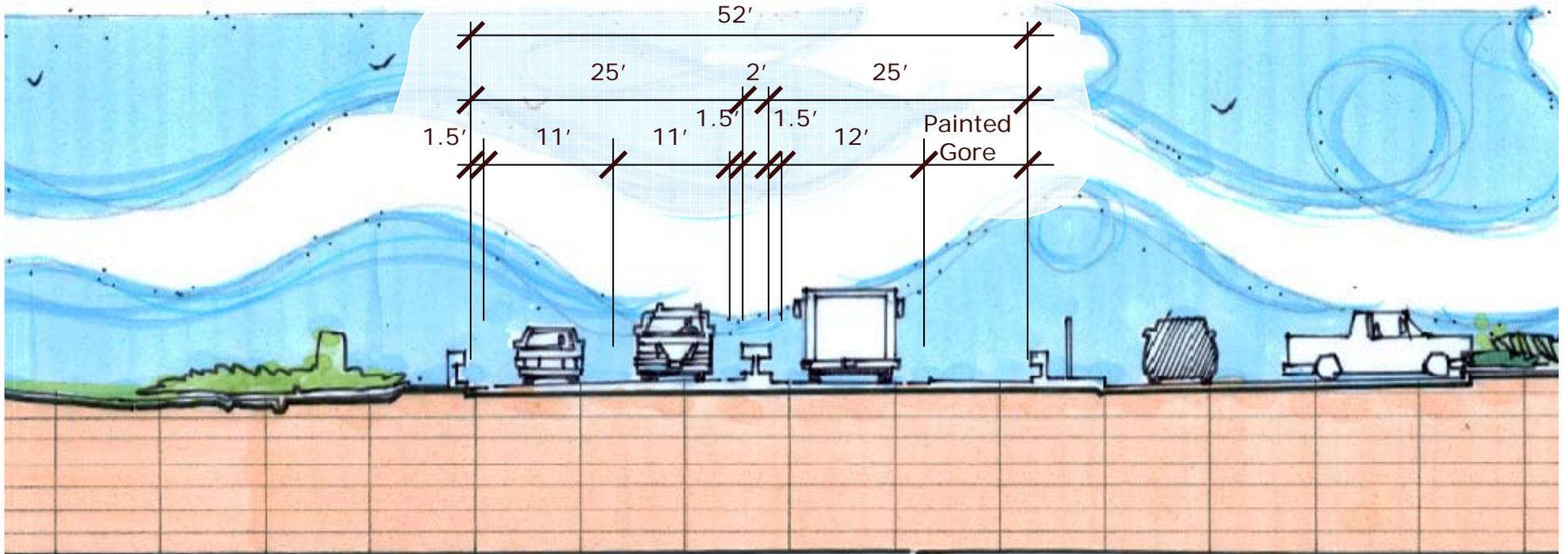


# Exit Improvements





# Section A-A



✓ Section Length = 300 LF

# WHY THIS PLAN?

- Much needed maintenance & repairs to road and drainage
- Incorporate state of the art operational & safety improvements
- Expand the natural & recreational offerings of the Reservation
- Enhance the aesthetic/historic character
- Seize upon a rare opportunity to improve the gateway to Nahant

# Next Steps



- April 17<sup>th</sup> Public Meeting
- ENF – Spring 2008 Filing
- Plans & Specs - Fall 2008
- Advertise for Bid – Spring 2009