

Public Information Meeting

State Project No. 58-282
Rehabilitation of Bridge No. 00362
U.S. Route 1 over Mystic River
Mystic, Connecticut

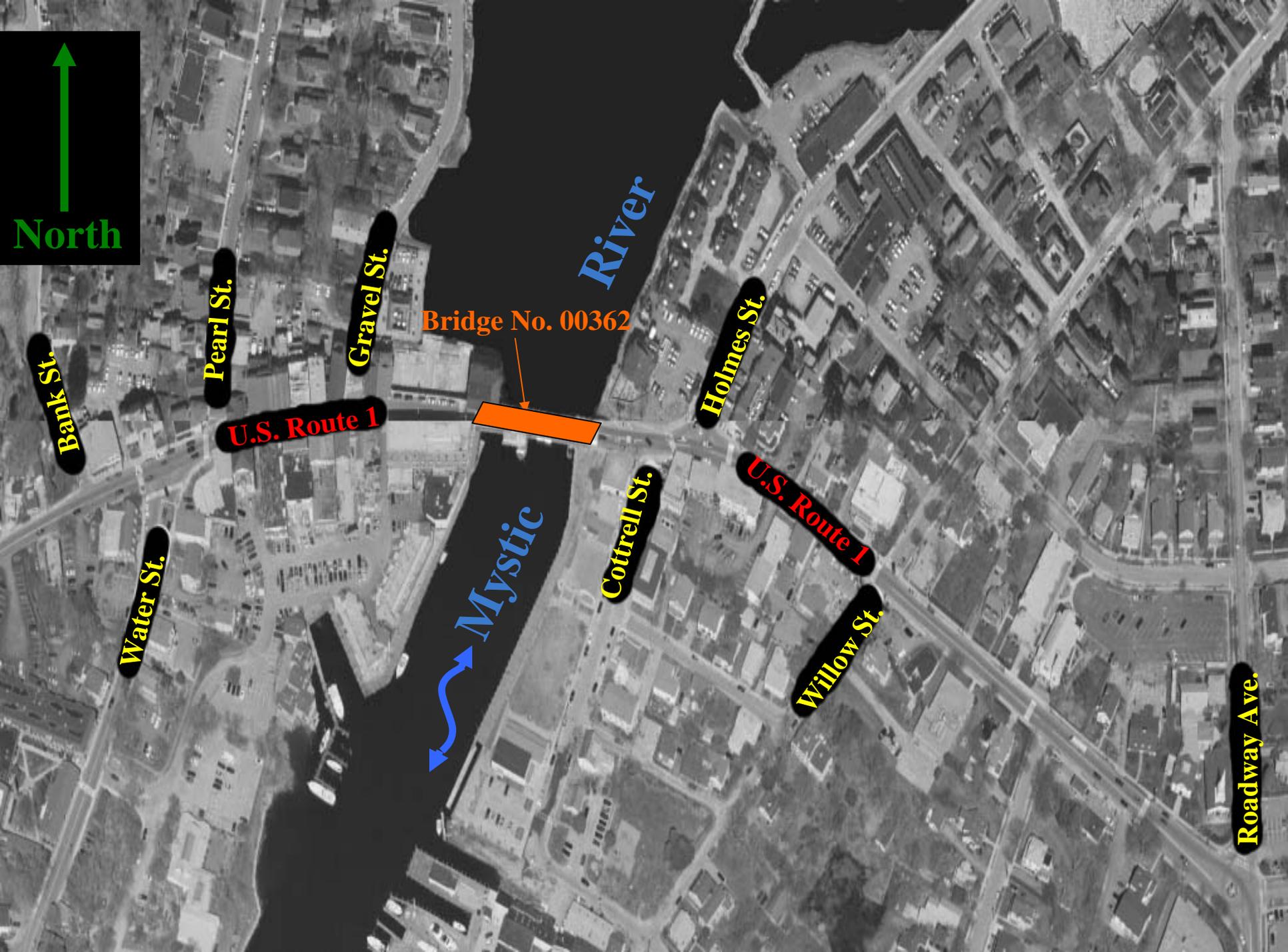
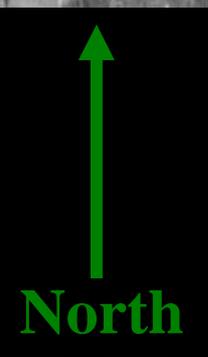
October 27, 2010



In Attendance

- Louis Bacho – D.O.T. CE Design
- Derrick Ireland – D.O.T. R.O.W.
- JoAnn Devine – District 2 Construction
- Mike Washington – District 2 Construction
- Keith Schoppe – District 2 Construction
- Brent Church – District 2 Construction
- Tom Ryan – Close Jensen & Miller, P.C.
- Bill Stark – Close Jensen & Miller, P.C.
- Scott Tierney – Cianbro Corporation





Mystic River

Bridge No. 00362

Mystic

Bank St.

Pearl St.

Gravel St.

U.S. Route 1

Holmes St.

U.S. Route 1

Cottrell St.

Willow St.

Roadway Ave.

Water St.



Project Goals

- **Rehabilitate Bridge No. 00362**
- **Minimize disturbances to traveling public**
- **Complete construction in a timely manner**
- **Effectively use funds**

Address above with consideration for context sensitive design



Existing Bridge Description

- **Bascule type bridge listed on the National Register of Historic Structures**
- **Built in 1922; Phase 1 of the current rehabilitation was completed in 2002**
- **Located on U.S. Route 1 over the Mystic River at the Groton/Stonington town line**
- **Carries one lane of traffic in the northbound and southbound directions, with a pedestrian sidewalk on each side**
 - **U.S. Route 1 (2007) Average Daily Traffic (ADT): 11,900**





MYSTIC RIVER
RAILWAY BRIDGE

THE BRIDGE IS OPEN TO TRAFFIC FROM 6:00 AM TO 6:00 PM DAILY. THE BRIDGE IS CLOSED TO TRAFFIC FROM 6:00 PM TO 6:00 AM DAILY. THE BRIDGE IS CLOSED TO TRAFFIC ON SUNDAYS AND HOLIDAYS. THE BRIDGE IS CLOSED TO TRAFFIC ON WEDNESDAYS AND THURSDAYS. THE BRIDGE IS CLOSED TO TRAFFIC ON FRIDAYS AND SATURDAYS. THE BRIDGE IS CLOSED TO TRAFFIC ON SUNDAYS AND HOLIDAYS. THE BRIDGE IS CLOSED TO TRAFFIC ON WEDNESDAYS AND THURSDAYS. THE BRIDGE IS CLOSED TO TRAFFIC ON FRIDAYS AND SATURDAYS.

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Reasons for Phase 2 Rehabilitation

This structure has been recommended for rehabilitation under the State Bridge Program.

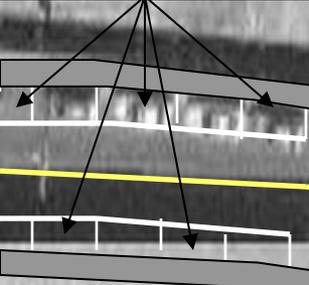
Reasons include:

- Deficient mechanical systems
- Deficient electrical systems
- Deficient structural condition
- Deficient paint system
- Deficient control house condition
- Pier Settlement

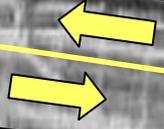
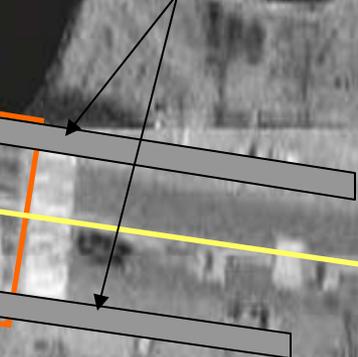


Existing Traffic and Pedestrian Condition

Parallel Parking



Existing Sidewalk



**Tidal
Flow**



Maintenance and Protection of Traffic Plan 1

- December 1st – January 2nd (Construction Year One)
 - Preparation for painting activities
 - Centerline of roadway shifted south, no parallel parking adjacent to work area
 - Navigation Restrictions (December 2nd bridge operation shut down based on Coast Guard notification)



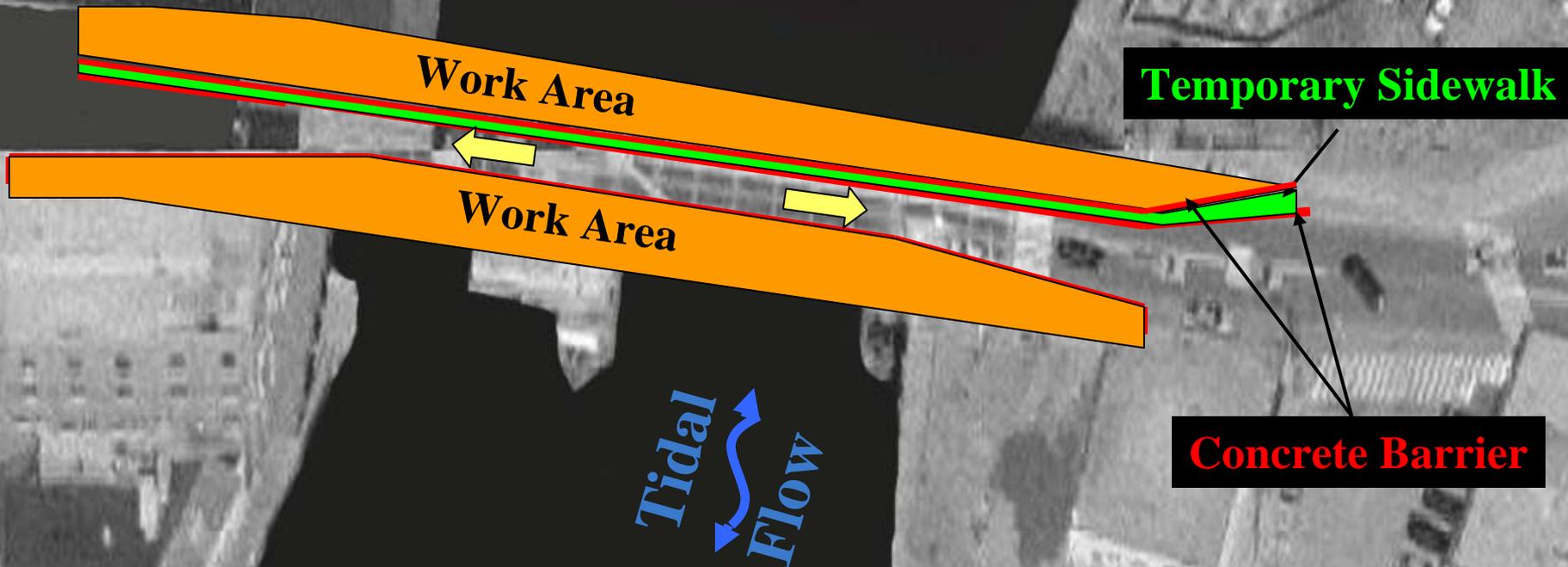
Maintenance and Protection of Traffic Plan 1

- December 1st – January 2nd (Construction Year One)
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 - Centerline of roadway shifted north, no parallel parking adjacent to work area
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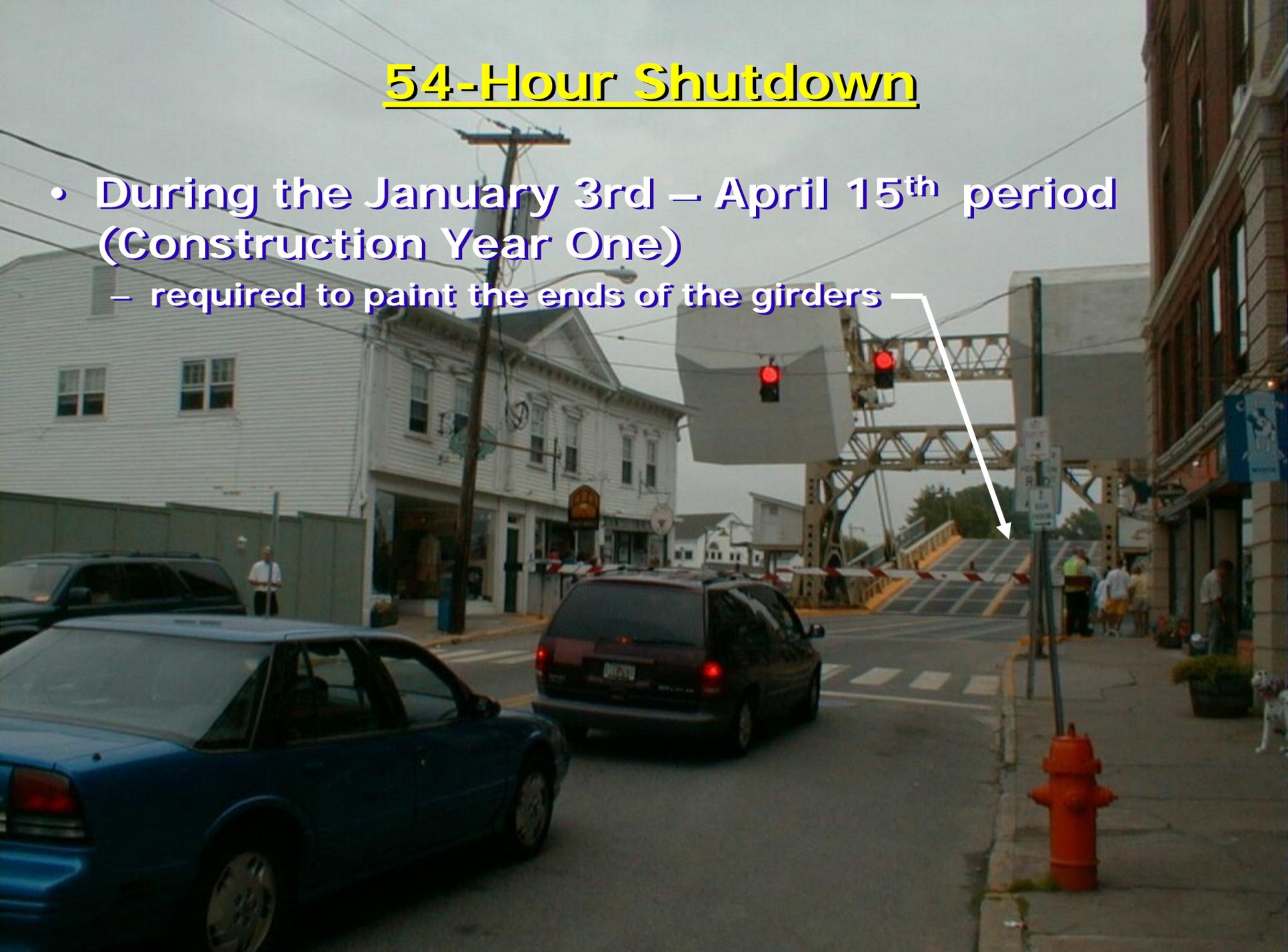
Maintenance and Protection of Traffic Plan 2

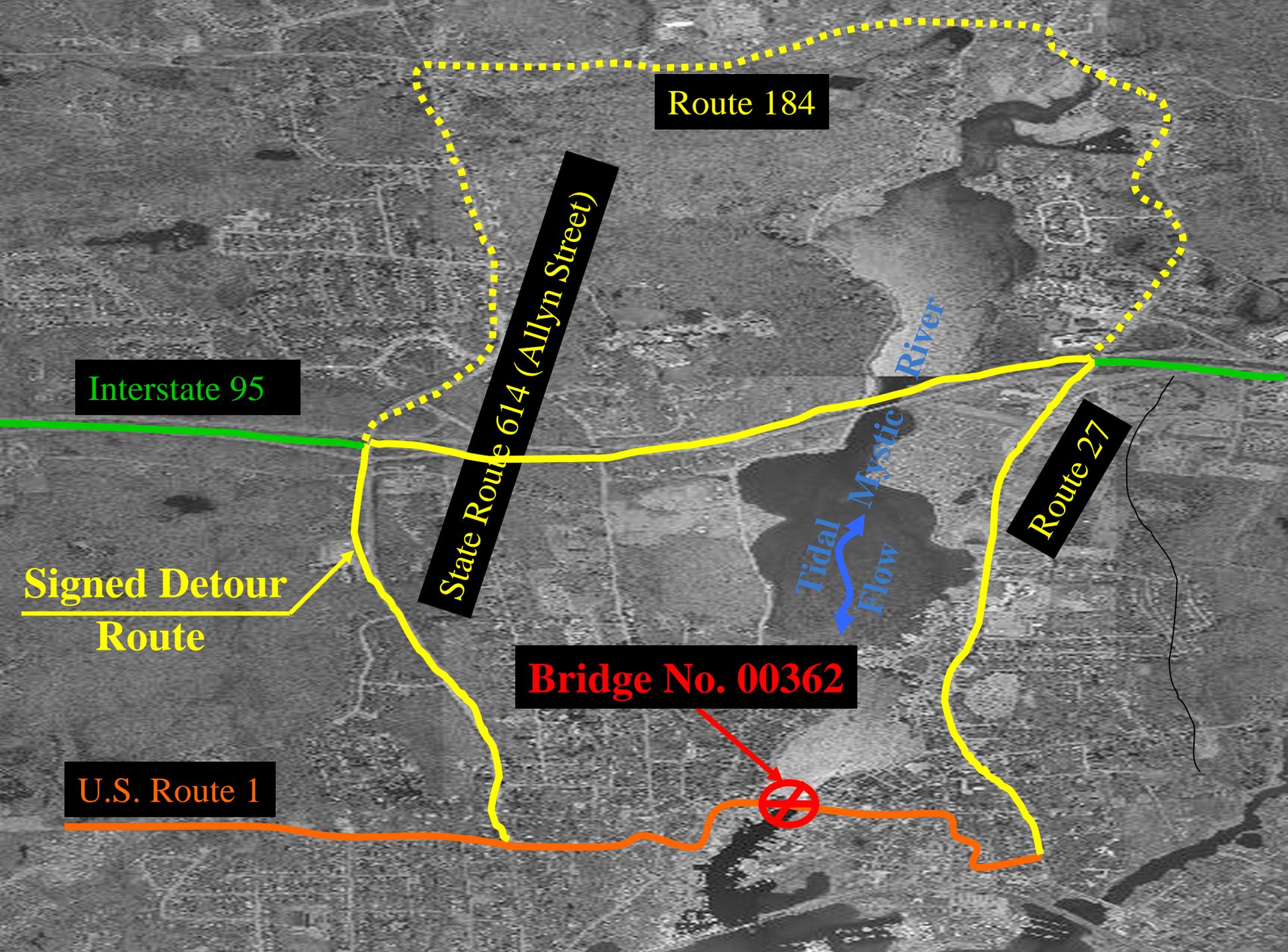
- January 3rd – April 15th (Construction Year One)
 - Blast Cleaning and Field Painting
 - Alternating one-way traffic
 - Navigation Restrictions



54-Hour Shutdown

- During the January 3rd – April 15th period (Construction Year One)
 - required to paint the ends of the girders





Route 184

Interstate 95

State Route 614 (Allyn Street)

Mystic River
Tidal Flow

Route 27

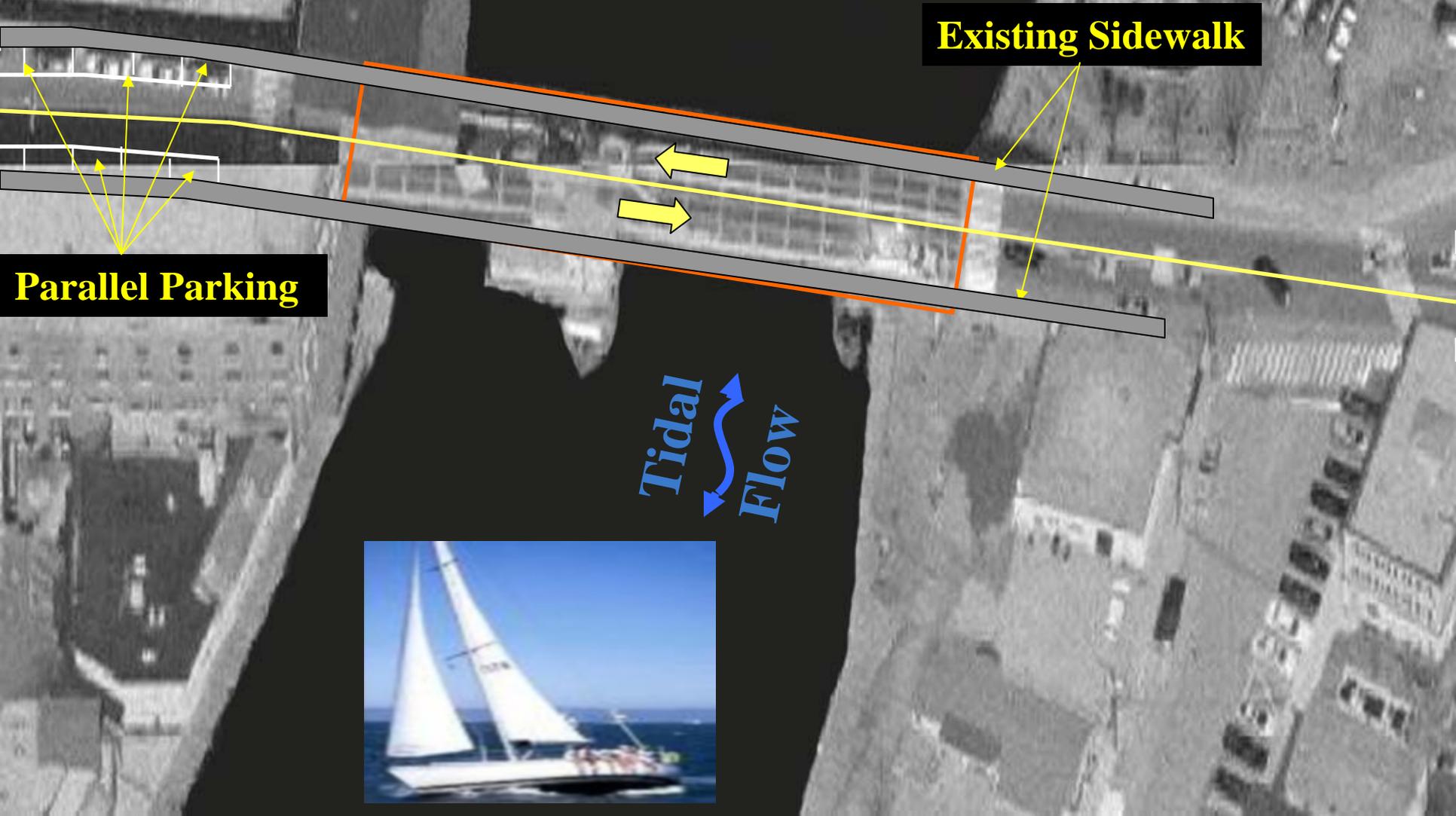
Signed Detour
Route

Bridge No. 00362

U.S. Route 1

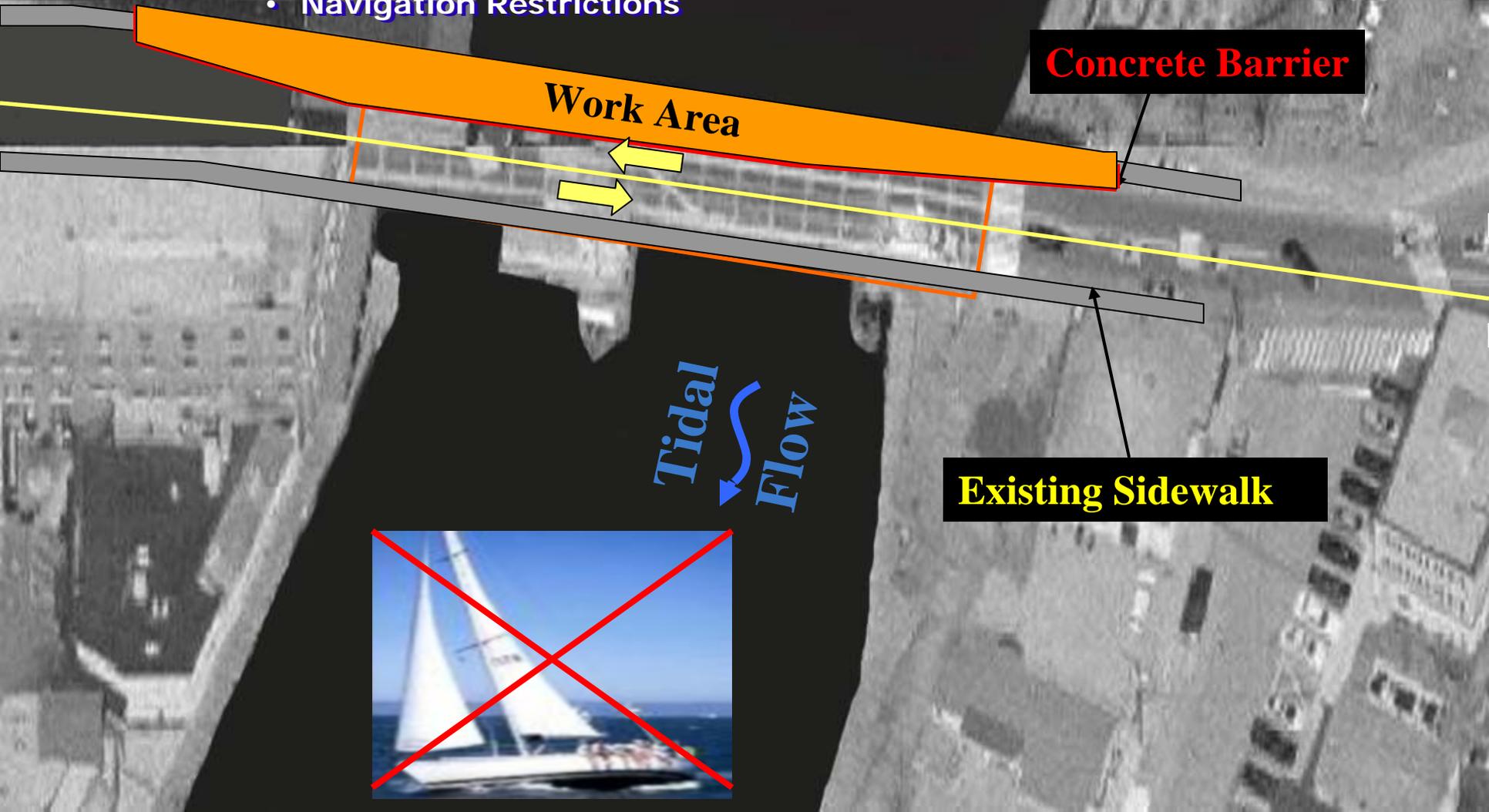
Back to ... Existing Traffic and Pedestrian Condition

- Existing Traffic, Pedestrian and Navigation conditions to be restored by April 16th (Construction Year One)
- Pile driving not anticipated during first season



Maintenance and Protection of Traffic Plan 1

- December 1st – January 2nd (Construction Year Two)
 - Installation of Jacking Tower to support counterweight
 - Centerline of roadway shifted south, no parallel parking adjacent to work area
 - Navigation Restrictions



Concrete Barrier

Work Area

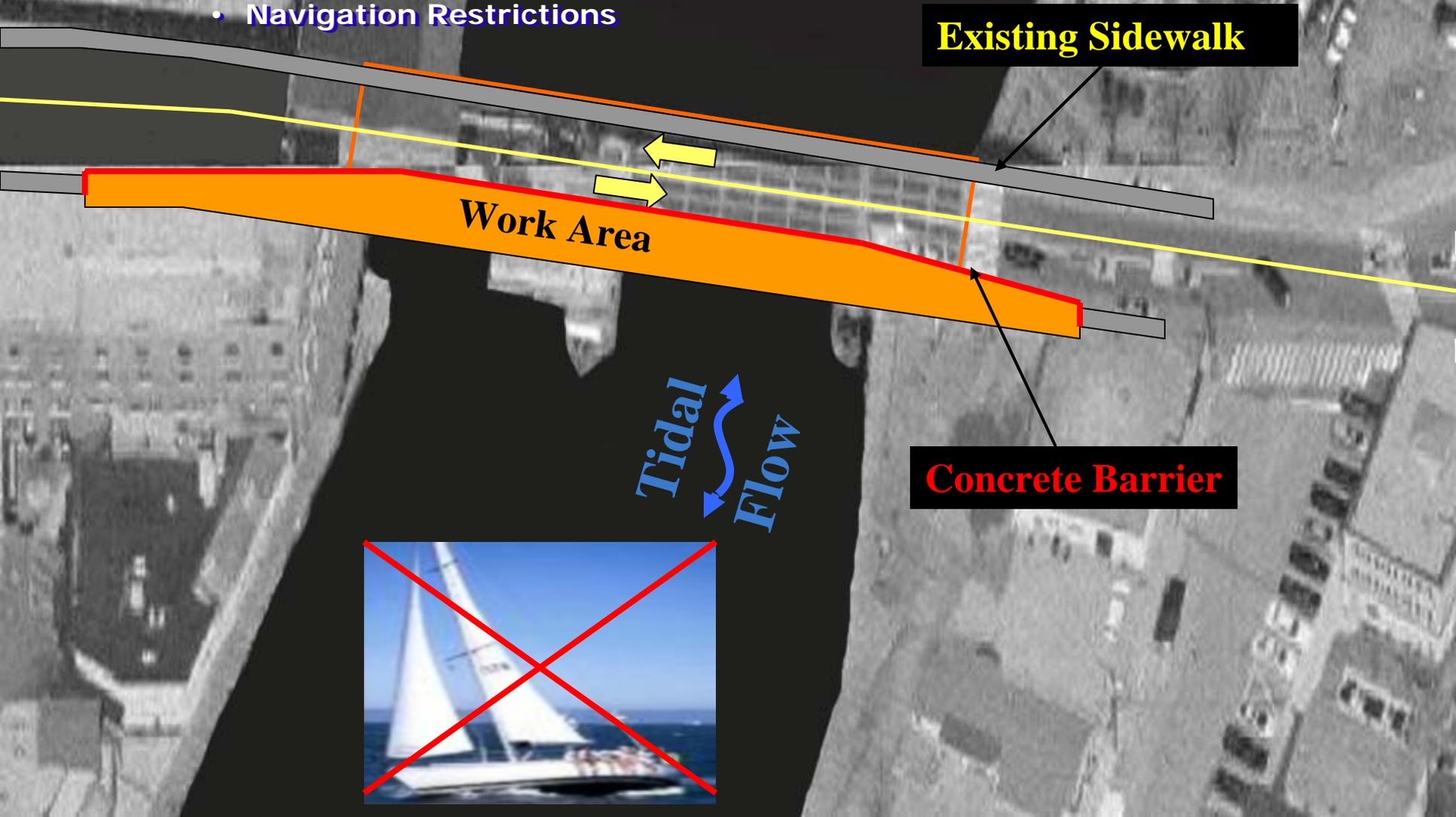
**Tidal
Flow**

Existing Sidewalk



Maintenance and Protection of Traffic Plan 1

- December 1st – January 2nd (Construction Year Two)
 - Installation of Jacking Tower to support counterweight
 - Centerline of roadway shifted north, no parallel parking adjacent to work area
 - Navigation Restrictions





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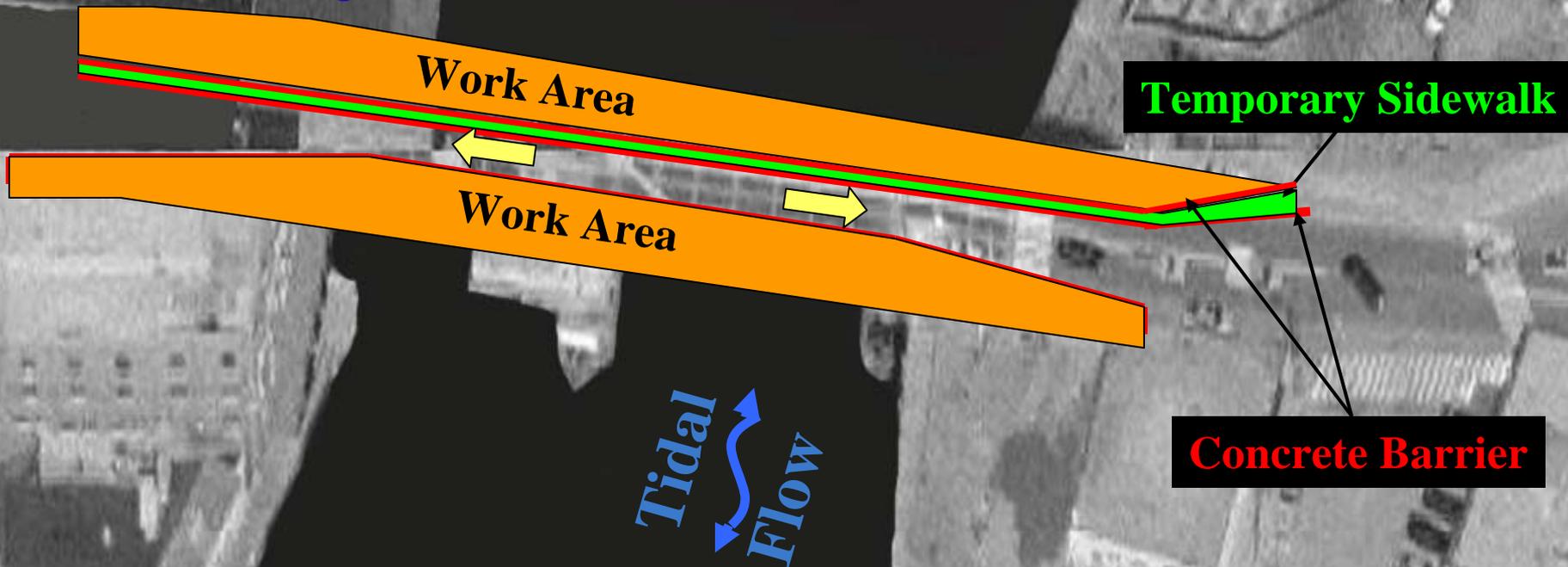
MYSTIC RIVER
HIGHWAY BRIDGE

BRIDGE SHALL OPEN ON SIGNAL LIGHTS
AND 5:00 P.M. TO 6:00 P.M.
ONCE SIGNALS ARE ON PASS THE BRIDGE
WILL BE OPEN TO TRAFFIC 15 MIN.
IF AN OPEN SIGNAL IS NOT RECEIVED CALL 309-440-4400

MADE IN THE UNITED STATES OF AMERICA
ALL DIMENSIONS IN FEET AND INCHES
UNLESS OTHERWISE SPECIFIED
FOR MORE INFORMATION CONTACT THE
DESIGNER OR MANUFACTURER

Maintenance and Protection of Traffic Plan 2

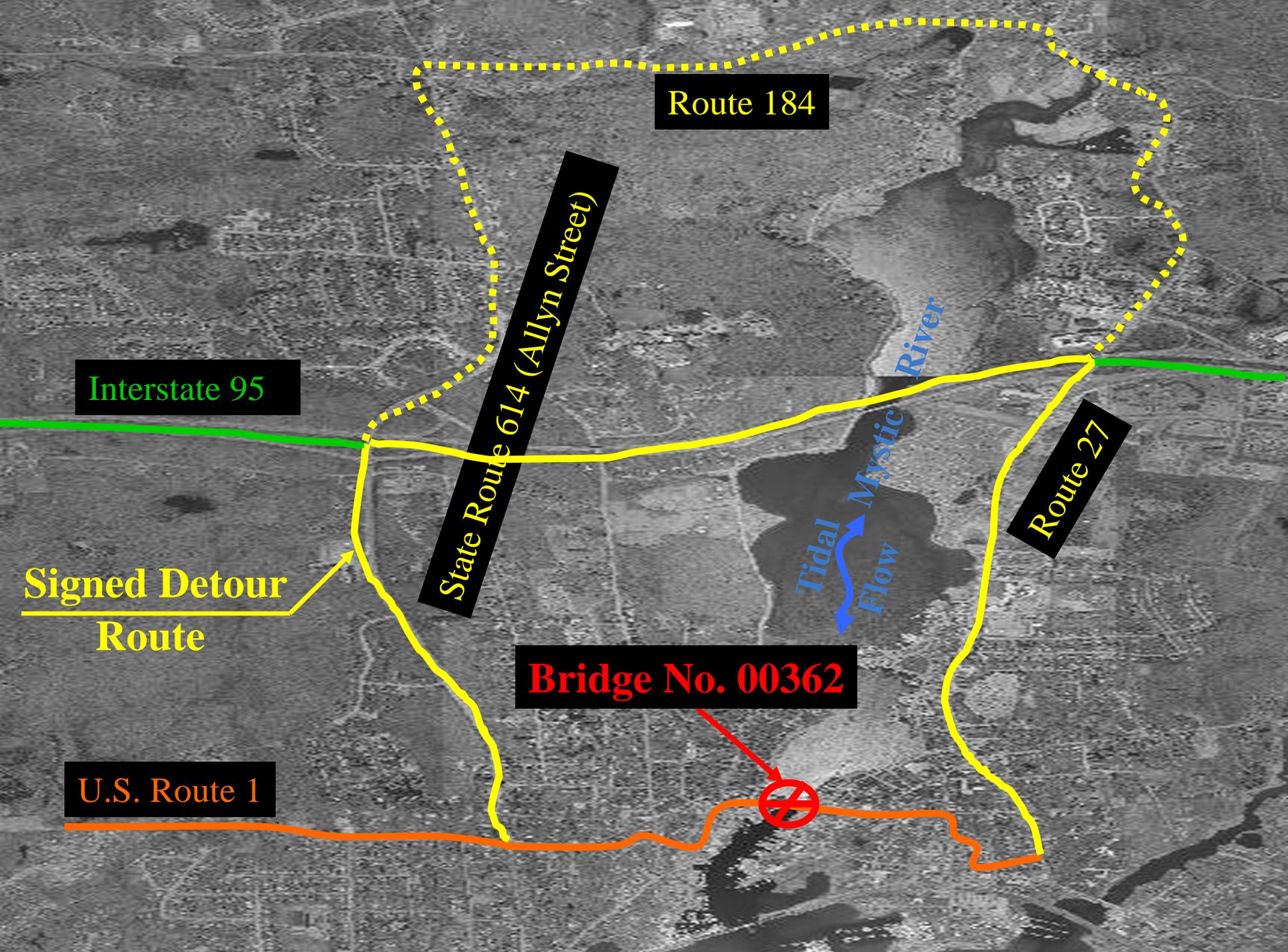
- January 3rd – April 15th (Construction Year Two)
 - Mechanical fixes and Alignment of counterweight truss
 - Alternating one-way traffic
 - Navigation Restrictions



54-Hour Shutdown

- During the January 3rd – April 15th period (Construction Year Two)
 - required to install resistance barrier gate system





Route 184

Interstate 95

State Route 614 (Allyn Street)

Tidal Flow
Mystic River

Route 27

Signed Detour
Route

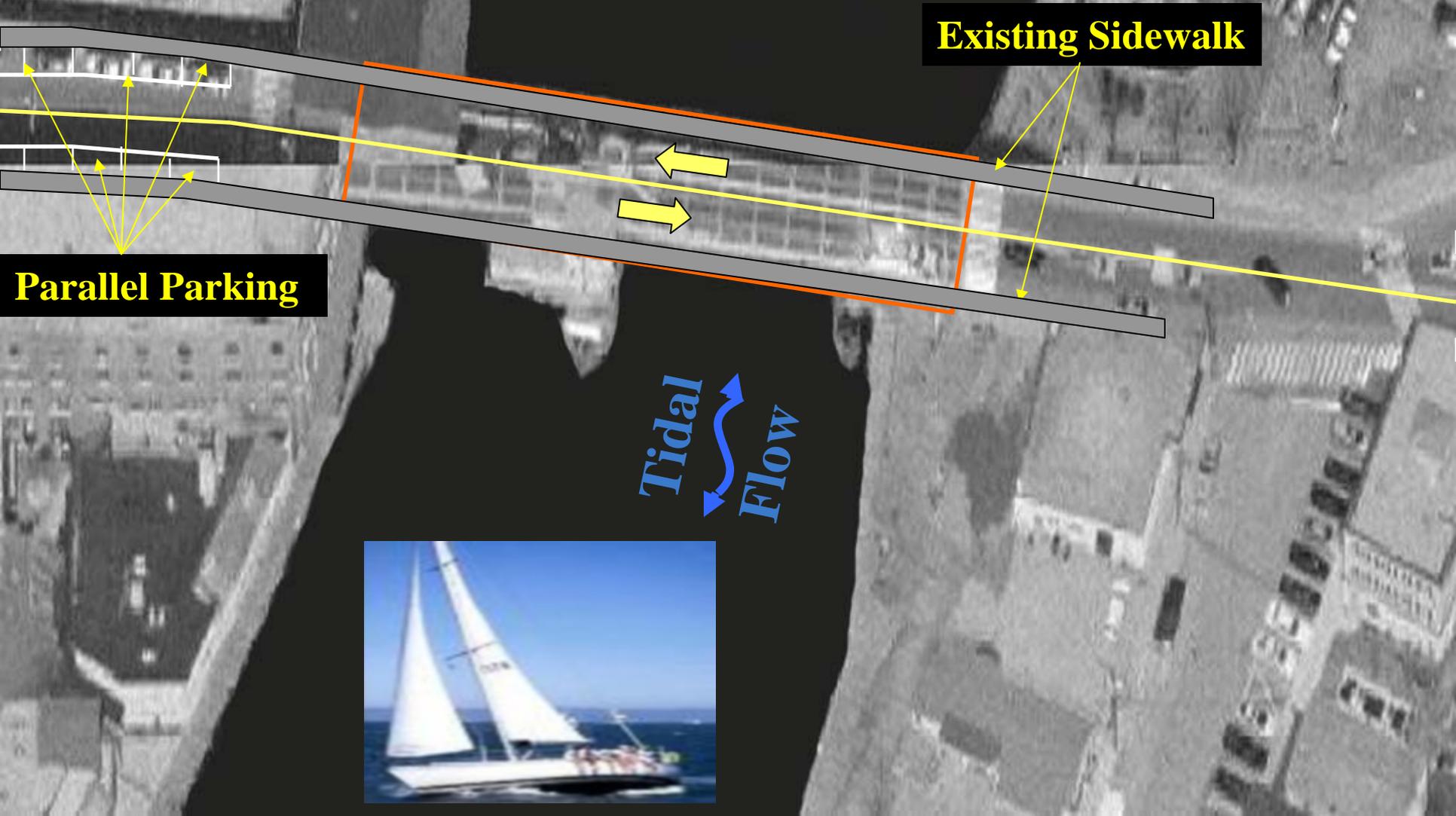
Bridge No. 00362

U.S. Route 1



Back to ... Existing Traffic and Pedestrian Condition

- Existing Traffic, Pedestrian and Navigation conditions to be restored by April 16th (Construction Year Two)



Existing Sidewalk

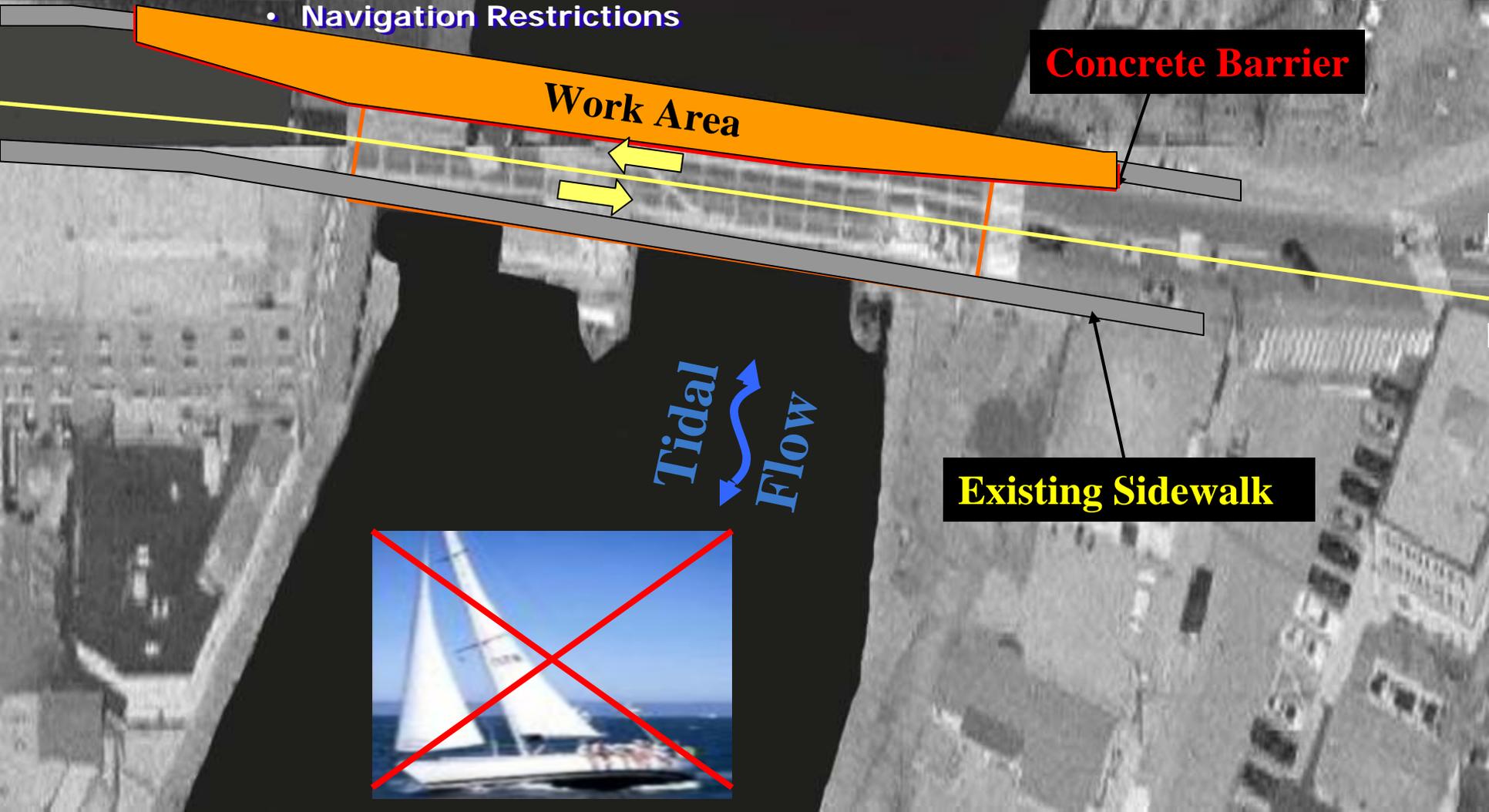
Parallel Parking

**Tidal
Flow**



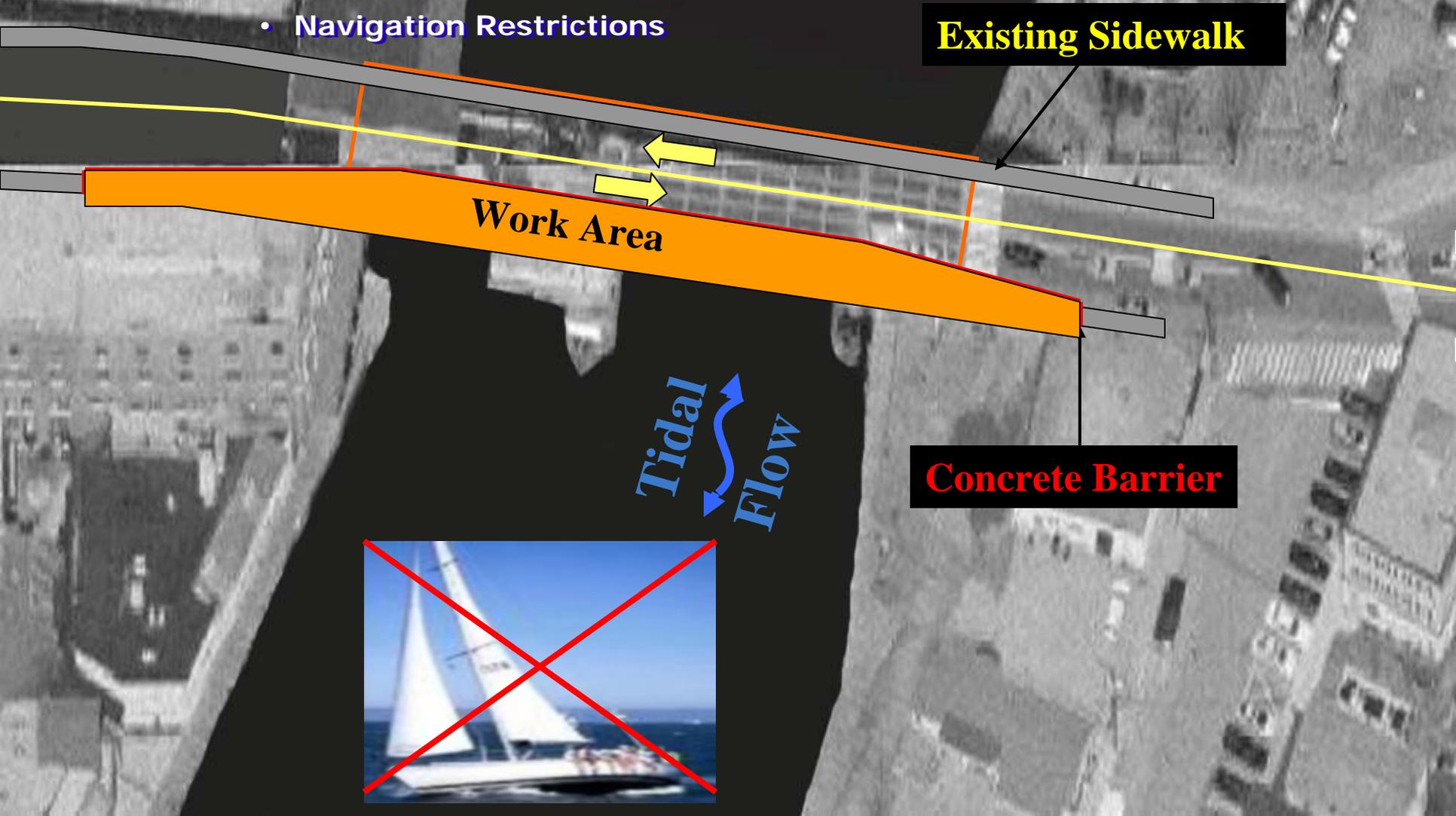
Maintenance and Protection of Traffic Plan 1

- November 1st – January 2nd (Construction Year Three)
 - Replace Electrical and Mechanical Systems
 - Centerline of roadway shifted south, no parallel parking adjacent to work area
 - Navigation Restrictions



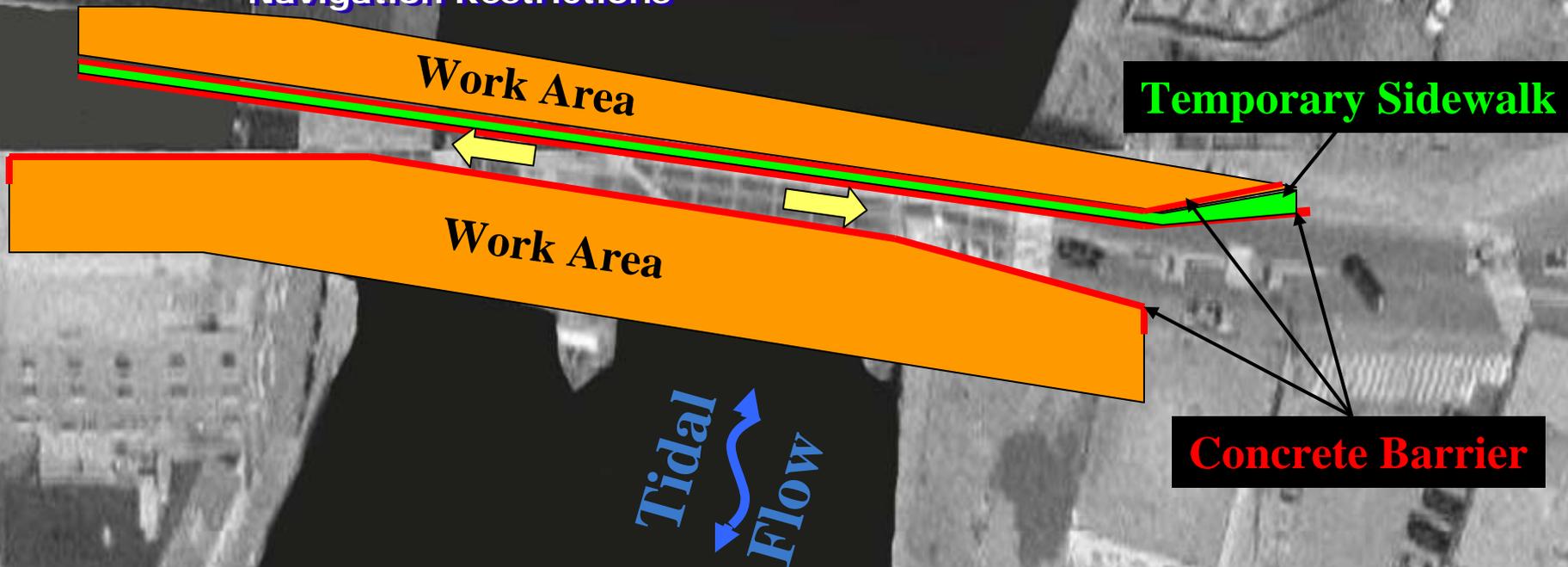
Maintenance and Protection of Traffic Plan 1

- November 1st – January 2nd (Construction Year Three)
 - Replace Electrical and Mechanical Systems
 - Centerline of roadway shifted north, no parallel parking adjacent to work area
 - Navigation Restrictions



Maintenance and Protection of Traffic Plan 2

- January 3rd – April 15th (Construction Year Three)
 - Replace Electrical and Mechanical systems
 - Replace control house and storage shed
 - Alternating one-way traffic
 - Navigation Restrictions



Staging Area for Construction



5°N, 71 58' 9.86°W

Bridge No. 00362

Construction Staging Area

Image © 2007 DigitalGlobe

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Google

Water Rights Acquired



Project Schedule

Construction is anticipated to start in December of 2010 and end in the Spring of 2013.



Contact Information

- ConnDOT

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171 Salem Turnpike

Norwich, CT 06360

(860) 823-3252 or keith.schoppe@ct.gov



THANK YOU...

FOR YOUR ATTENTION

Connecticut Department of Transportation
and
Close, Jensen and Miller, P.C.

Connecticut Department of Transportation

