

# NSUPA April 2016

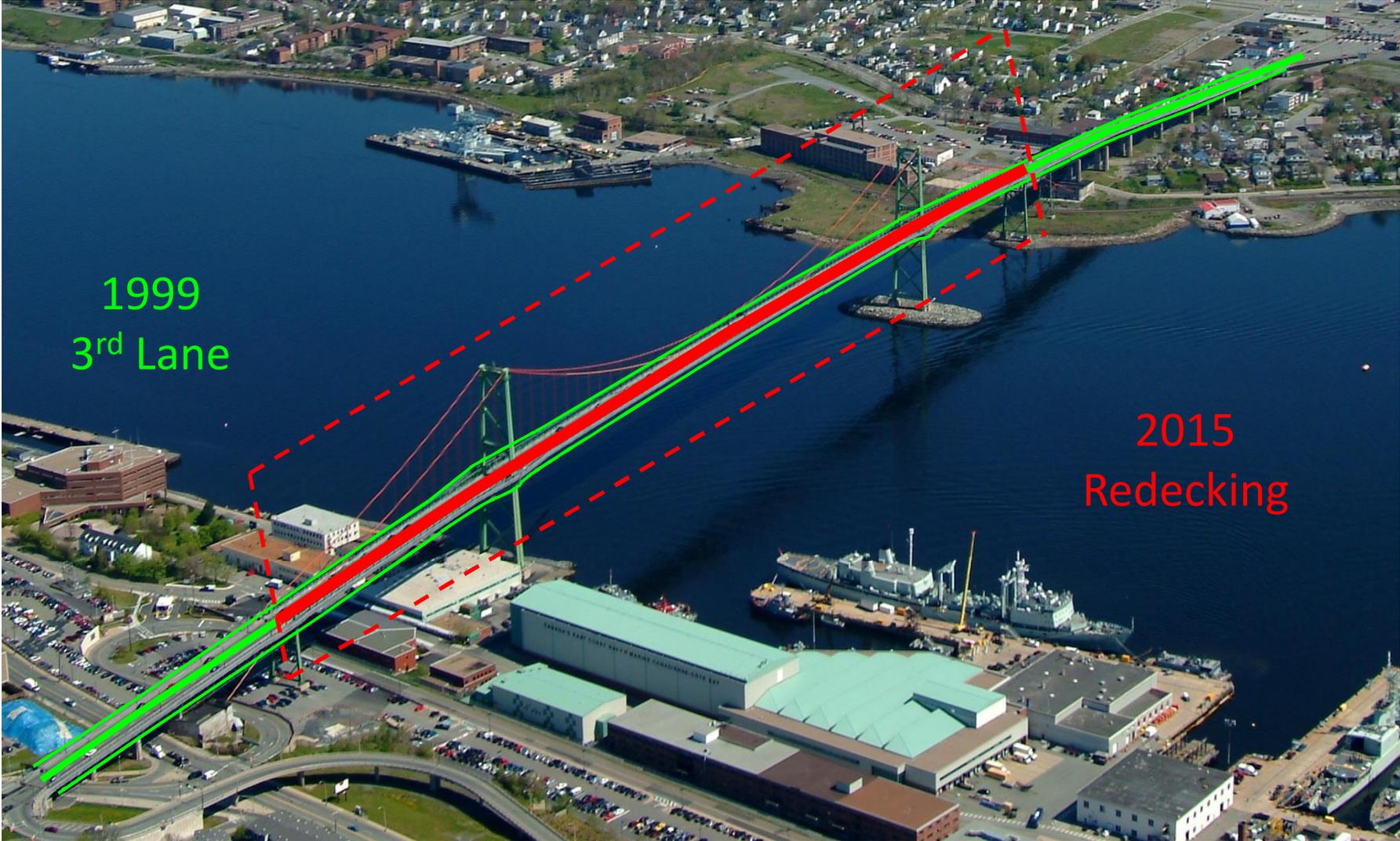
[Video](#)



Halifax Harbour Bridges



REDECKING  
THE MACDONALD  
BRIDGE

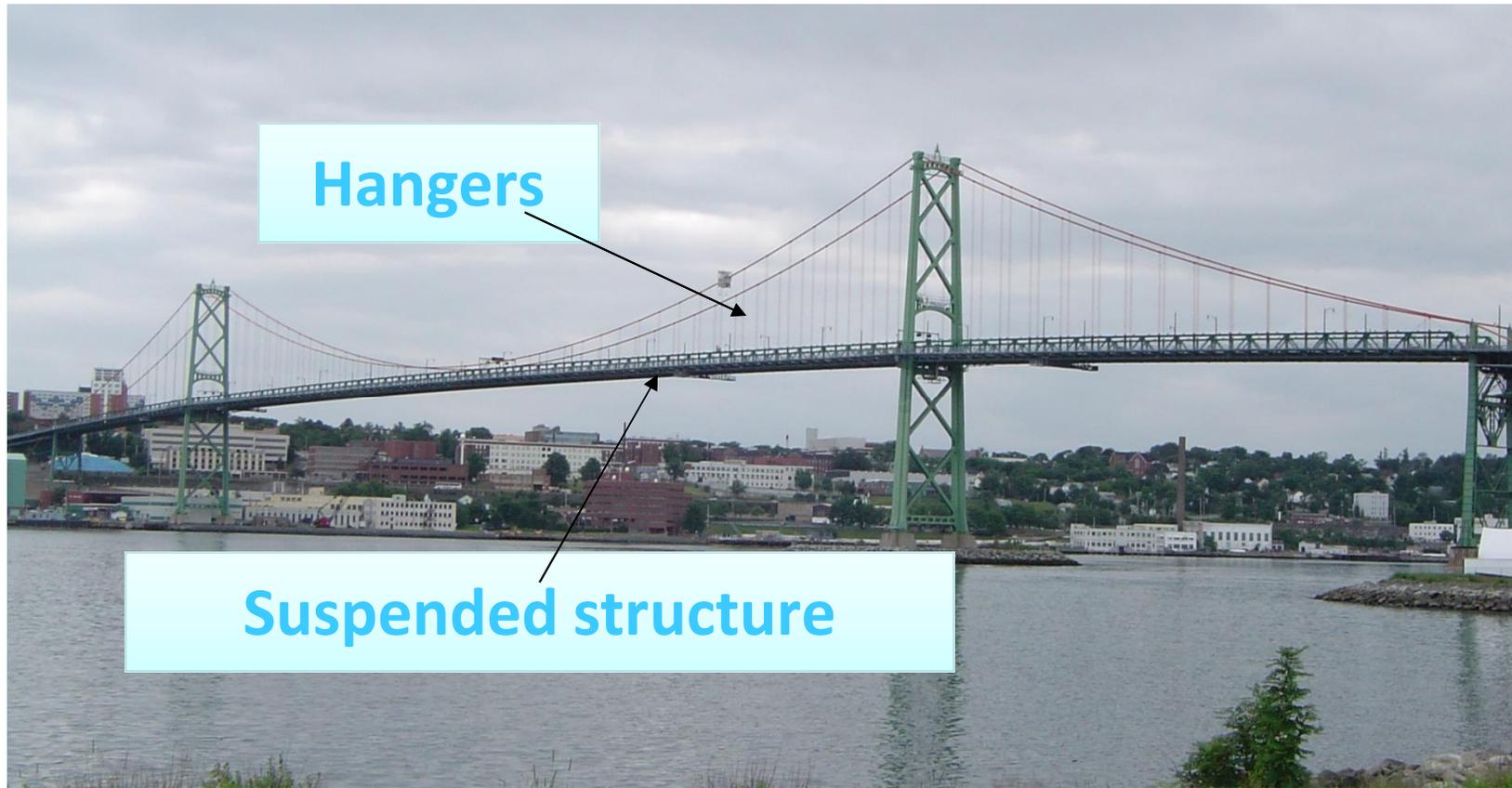


1999  
3<sup>rd</sup> Lane

2015  
Redecking



# What gets replaced?



# How is it done?

- Replace entire suspended structure, 20m or 10m at a time – from Dartmouth to Halifax
- Overnight closures (7:00pm to 5:30am)
- 5/6 nights per week for about 18 months
- All-weekend closures
  - Until the contractor can complete a segment replacement in 10.5 hours



# Sidewalk removal



# Shuttle service



# Additional Enhancements

- Main cable dehumidification
- Increasing the air gap



Halifax Harbour Bridges



RESCUING  
THE MACDONALD  
BRIDGE



# Status

- Sidewalk and bike lane closed the end of June 2015
- Segment replacement fall 2015 – end of year 2016
- Seven deck segments have been replaced
- Once 46 are replaced, permanent paving, replace hangers, increase clearance of the bridge and dehumidify the main cable



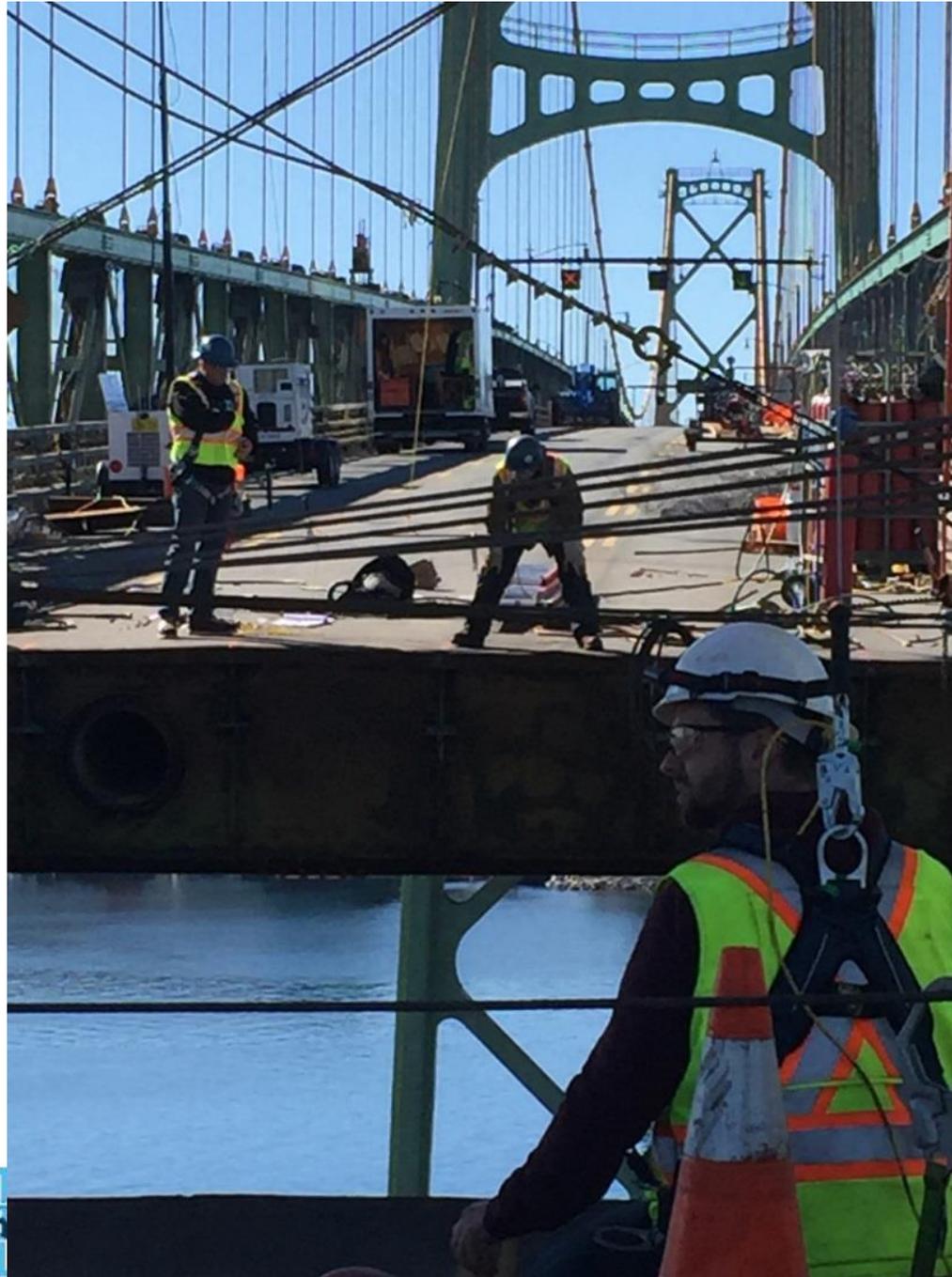




# Moving first segment to barge







RENOVATING  
THE MACDONALD  
BRIDGE





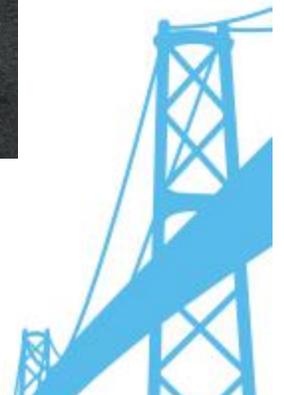


Halifax Harbour Bridges

**THE  
BIG  
LIFT**

RECONSTRUCTING  
THE MACDONALD  
BRIDGE







Halifax Harbour Bridges







2015/09/03



# Road Deck Wearing Surface

## ■ Pre-paving

- Blast cleaned
- Zinc silicate primer
- Epoxy bond coat
  - 150° C / 1mm
- Aggregate cover
  - 150° C – 200° C / 9.5mm













# Road Deck Wearing Surface

- **Final paving**

- Repairs to pre-paving
- Detergent scrubbing
- Chemco epoxy asphalt concrete
- Finished thickness of 45mm
- Tolerance of +3 mm, -0 mm



# Time lapse video



# Staying connected

- Website: [thebiglift.ca](http://thebiglift.ca)
- E-mail: [bridges@thebiglift.ca](mailto:bridges@thebiglift.ca)
- Phone number: 902.406.5438
- Social media: @BigLiftHFX, @hhbridges
- 511

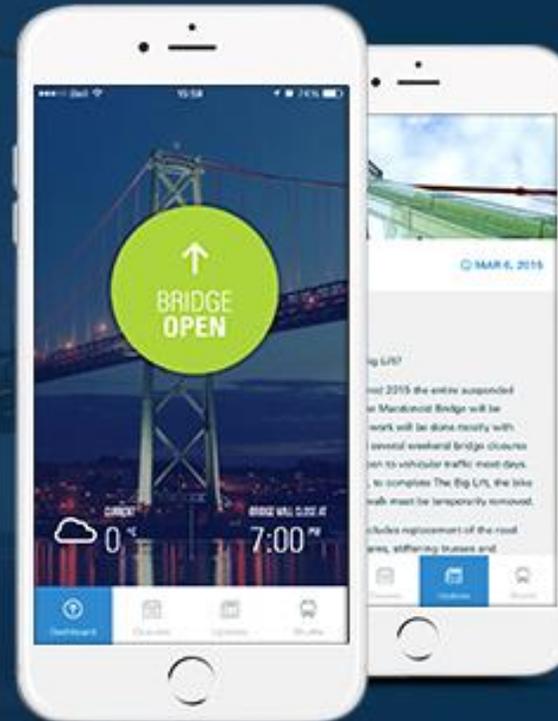


# THE BIG LIFT APP

Available on the  
App Store

GET IT ON  
Google play

Get it on  
BlackBerry  
World



**Thank you  
Questions?**

