North Park Street: Construction Phasing of a Multi-Year, Urban Street Reconstruction

Greg O’Brien, P.Eng. WSP Canada Inc.
Outline

• Project Overview
• Design Layout
• Phasing Reasons & Considerations
• Phase 1 (constructed 2014)
• Phase 2 (constructed 2015)
• Key Points
• Questions
Project Overview

- **Client:** Halifax Regional Municipality

- **Objective / Scope:**
  - Replace 2 signalized intersections with roundabouts
  - Upgrades to North Common
  - Place electrical / telecom. underground

- **Project Area:** North Park Street
  - Cunard Street and Cogswell Street intersections
  - 350m of roadway between intersections
Project Area

Downtown Halifax

Project Location

Downtown Halifax
Project Area

Dartmouth

North Common

Halifax

Phase 1: Cunard Street Roundabout

Phase 2: Cogswell Street Roundabout
Cunard St. Intersection
Cogswell St. Intersection
Phasing

• Objectives:
  – Reduce traffic disruption
  – Overall construction time
  – Safety

• Phase 1 (2014) → North Park St. and Cunard St.
  – Simpler construction
  – Open to public first

• Phase 2 (2015) → North Park St. and Cogswell St.
Key Phasing Constraints & Considerations

- Construction schedule
- Each sub-phase open to traffic before start of next sub-phase
- Vehicle movements & traffic control
- Signal removal
- Pedestrian traffic (access through site / to Commons)
- Access to residences

- Overhead & underground utilities
- Work zone isolation (safety and efficiency)
- Temporary lighting (streetlight replacement)
- Material and equipment storage
- Future/planned infrastructure
- Stakeholder coordination
- Special events (Bluenose Marathon, Canada Day)
- Remove or retain existing infrastructure
Special Events Consideration

• Street Hockey Event
• Canada Day
• Scheduled sport events on the Common
• Bluenose Marathon
Special Events

13,000 participants
Street closures
Route is through project area

### ScotiaBank Blue Nose Marathon

#### 2016 Street Closures and Parking Bans

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<th>Type</th>
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<th>Location</th>
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Phase 1C
Phase 1 Trails
Phase 2D
Phase 1 – Pre-Construction
Phase 1A – North Park St. Closure
Phase 1B – Agricola & Cunard St. East Closure
Phase 1C – Cunard St. West Closure
Phase 1 Complete
Phase 1 Complete
Key Points

• For complex, multi-year street reconstruction projects:
  
  – Communication between stakeholders prior to construction is essential
  
  – Construction sequencing plans aimed at minimize disruption to public and reduce construction issues
  
  – Clearly define constraints to provide construction guidelines
  
  – Ongoing collaboration with contractor during construction
Questions

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