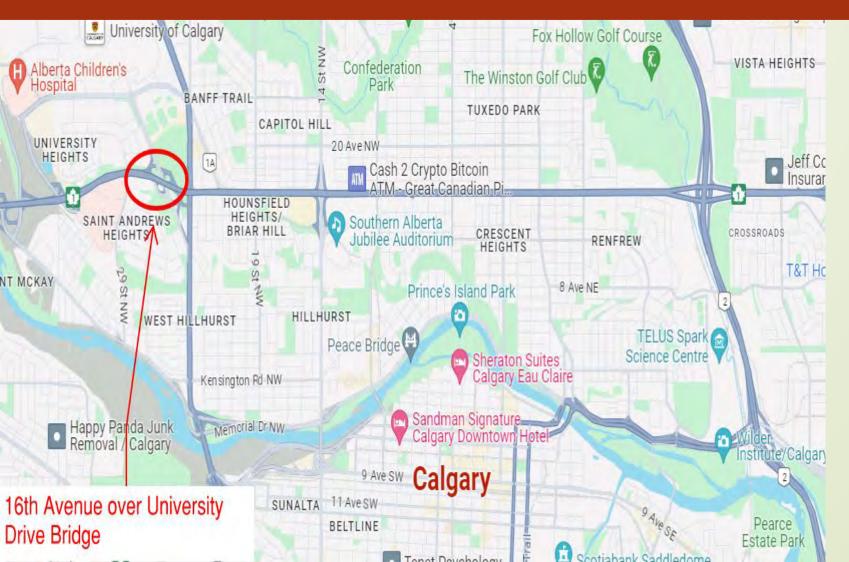




Project Overview



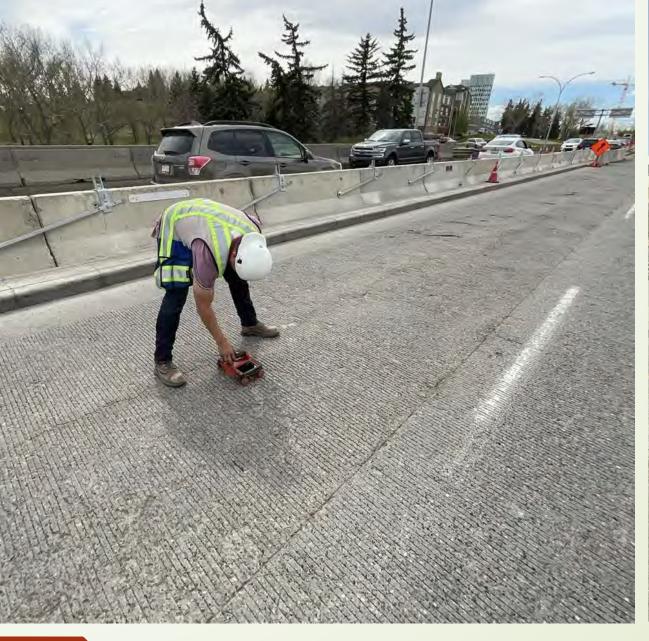
- Client: City of Calgary
- 16th Avenue over University Drive in Calgary
- Four-span cast-in-place concrete tee girder
- Constructed in the 1950s
- Bridge inspection in 2020 identified several deficiencies
- Scope of work:
 - Sidewalk removal/upgrades
 - Deck soffit upgrades
 - Bridgerail safety upgrades
 - Expansion joints replacement & Relocation
 - Deck overlay
 - Installation of waterproofing and ACP wearing surface

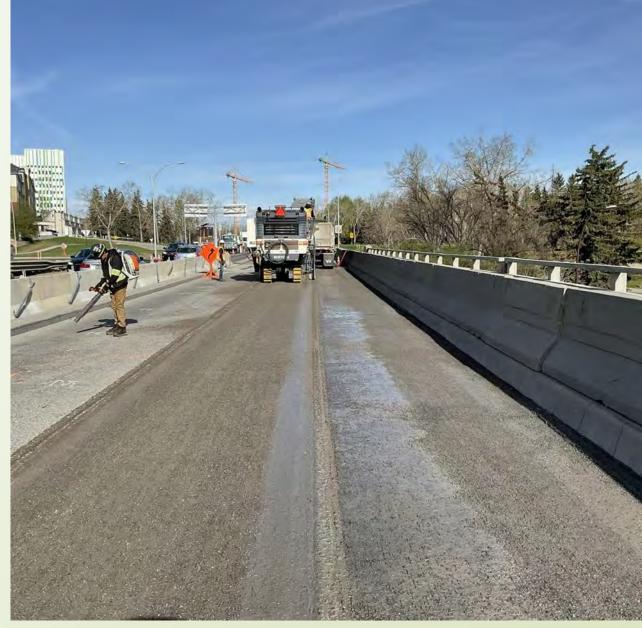


Main Challenges and Innovative Solutions

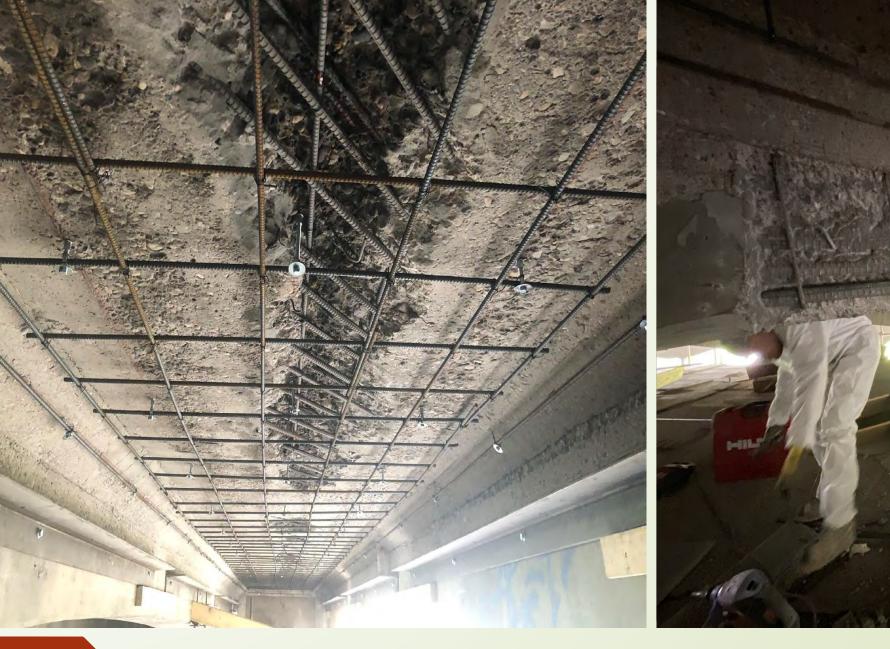
- Safety
- Structural Capacity
- Accessibility
- Durability
- Pedestrian Accommodation
- Traffic Accommodation







Rebar Scan and Deck Milling

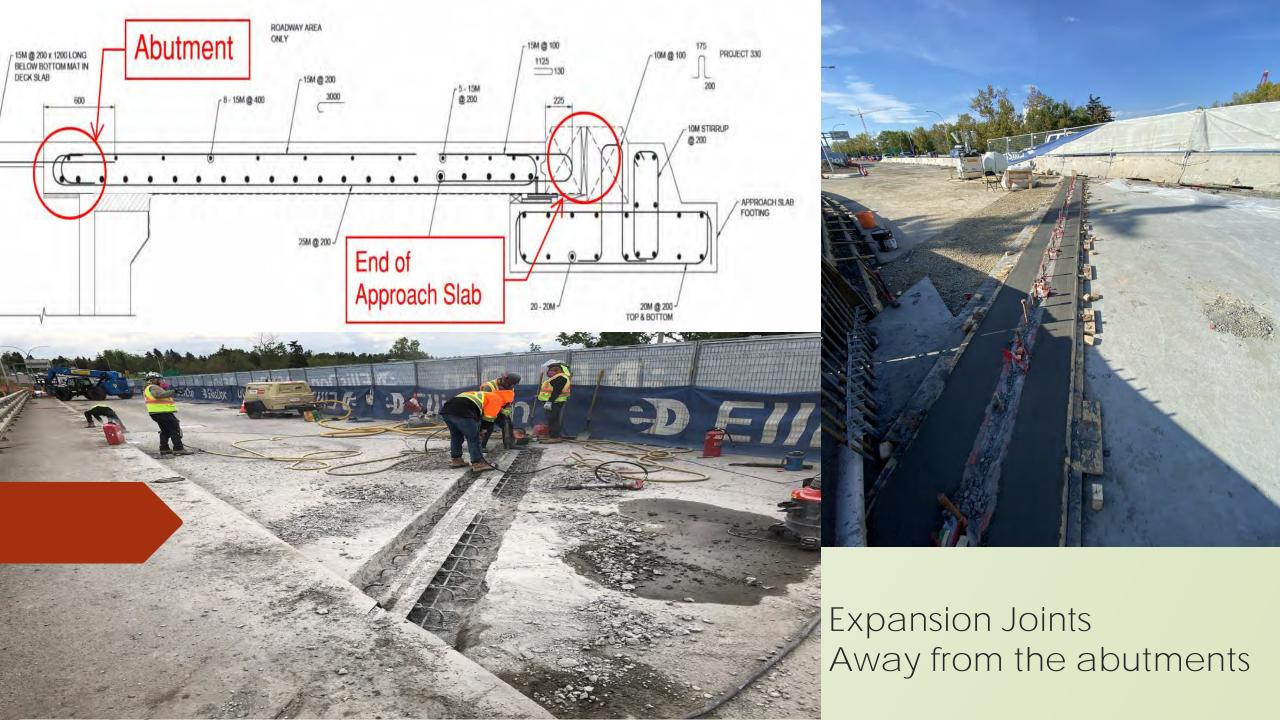


Deck Soffit and Girder Partial Depth Repairs

Full Depth Repairs
& Deck Soffit
Upgrades
Benefits of Agilia







Main Challenges and Innovative Solutions

- Safety
- Structural Capacity
- Accessibility
- Durability
- Pedestrian Accommodation
- > Traffic Accommodation







Sidewalk removal... but what about pedestrians?

Overhang Work Platform





Main Challenges and Innovative Solutions

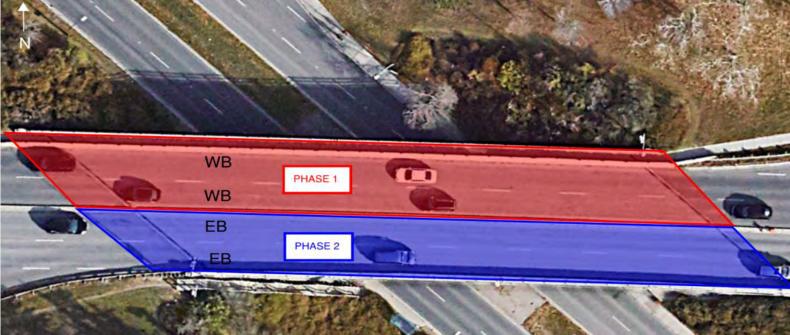
- Safety
- Structural Capacity
- Accessibility
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- > Traffic Accommodation



Three Phases vs Two Phases

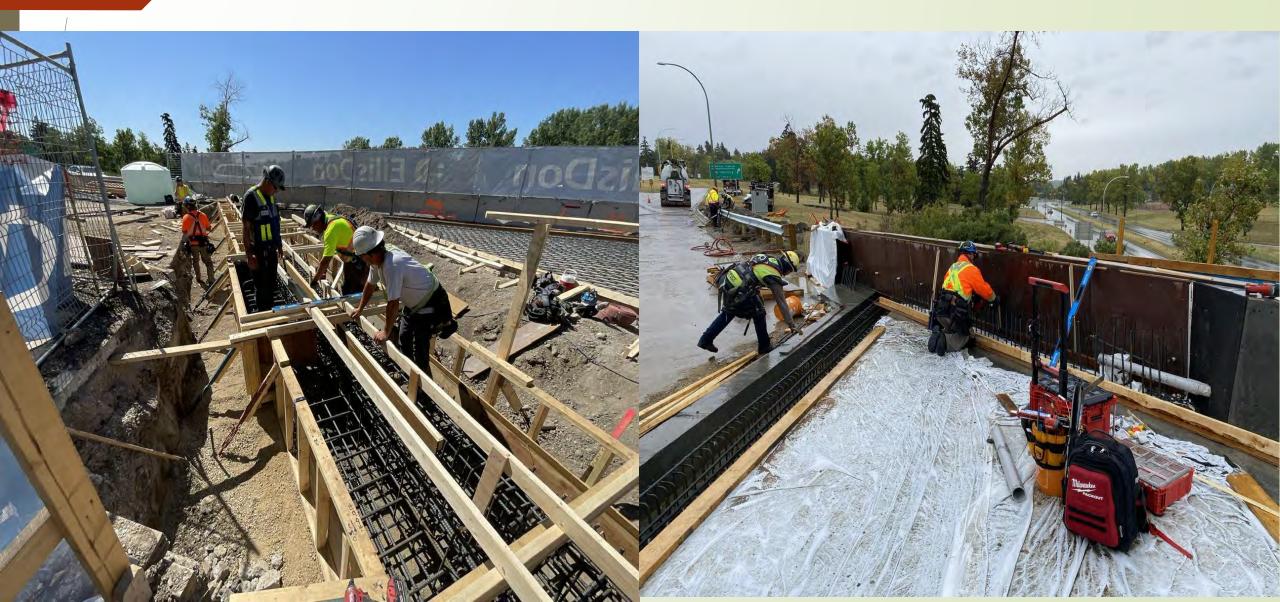
- Phase 1 North
 - Deck
 - Barrier
 - Sidewalk
- Phase 2 South
 - Deck
 - Barrier







Self-Perform Work



The New "Bridge Builder"









Temporary Solutions to Save Schedule

Proactive Approach to Changes and Delays

Material Procurement Delays

