D Deer Park Road

Bridge Improvement Alternatives

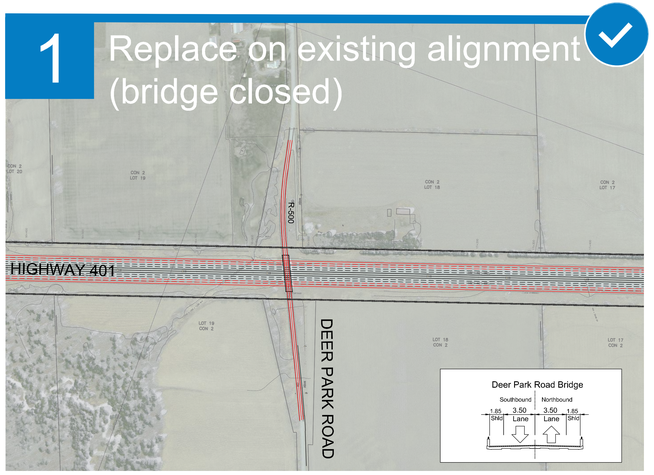
A range of bridge replacement alternatives have been developed. A preliminary screening has been carried out to identify the alternatives that should be carried forward for further consideration.

Carried-forward ✓ Screened-out ✗

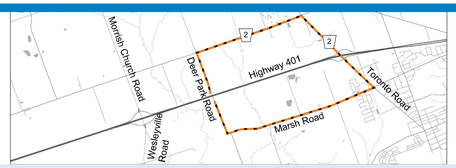
LEGEND
- New Roadway
- New Structure
- Property Required
- Limit of Existing MTO Right-of-way

N
150 m
1:3000

1 Replace on existing alignment (bridge closed)



Bridge closed with detour



Advantages

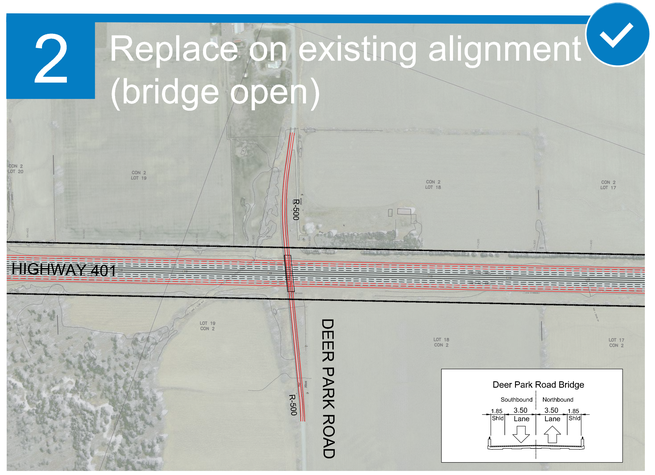
- Retains existing alignment of Deer Park Road
- No property required
- Faster method of construction compared to staged construction with single lane open on Deer Park Road bridge
- No utility impacts
- Lower construction staging cost compared to keeping bridge open during construction (Alternatives 2 and 3)

Disadvantages

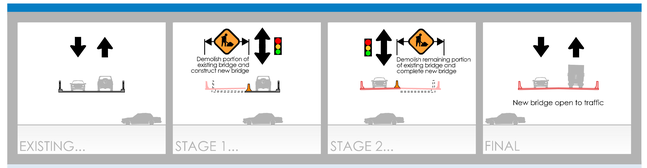
- Introduces up to 12.0 km of travel for traffic to cross Highway 401 via detour route

Note: The final detour route will be confirmed in consultation with the affected municipalities.

2 Replace on existing alignment (bridge open)



Bridge open with single lane



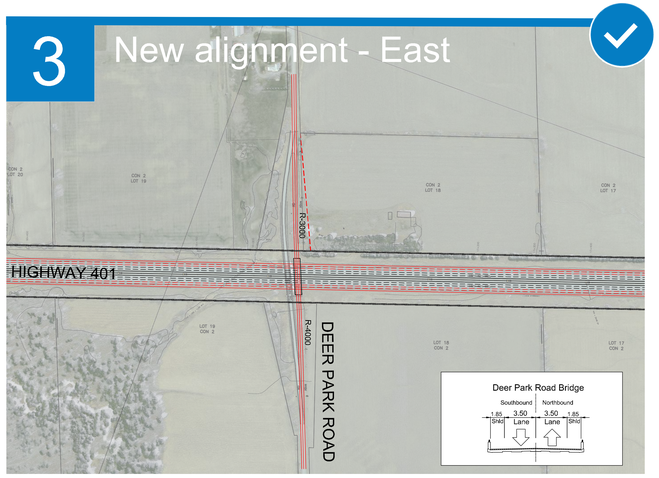
Advantages

- Minor alignment shift at bridge to accommodate construction; retains majority of existing alignment of Deer Park Road
- No property required
- Maintains access across Highway 401 during construction
- No utility impacts
- Lower construction cost compared to Alternative 3

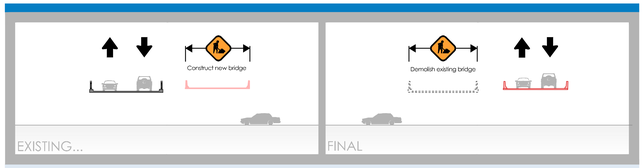
Disadvantages

- Potential minor traffic delays due to single lane of traffic across the bridge during construction (Alternative 1)
- Longer construction duration compared to closing the road
- Higher construction staging cost compared to closing the road

3 New alignment - East



Bridge open with two lanes



Advantages

- Improves the alignment of Deer Park Road
- Maintains access across Highway 401 during construction with minimal impacts to traffic
- Similar construction duration as closing bridge
- Similar construction staging cost as closing bridge

Disadvantages

- Minor utility impacts
- Requires property
- Significantly higher construction cost compared to replacing on existing alignment

Do Nothing ✗

Disadvantages

- Does not accommodate short-term or long-term structure needs