

Welcome

- Thank you for participating in the preliminary and functional design study for the new structures over the Assiniboine River and Long Lake Drain and the associated realignment of PTH 26 and PR 248.
- The image at right illustrates the general study area.
- The following slides provide an overview of the study process and objectives.
- The intent of this engagement is to:
 - Provide project updates
 - Offer an opportunity for stakeholders to provide early insight before preferred alignment is selected
 - Share important details regarding the next steps for this project





Project Team



Manitoba Transportation and Infrastructure (MTI)

Project Owner

Colin Spikula, MTI Project Manager



WSP

Engineering Consultant

Jim Lukashenko, WSP Project Manager



Landmark Planning & Design

Public and Stakeholder Engagement Consultant

Donovan Toews, Engagement Lead



Background

- The objective of the project is to prepare a design concept to replace the aging structures over Assiniboine River and Long Lake Drain and improve the alignments of PTH 26 and PR 248.
- The existing truss bridge over the Assiniboine River was constructed in 1948 and the timber bridge over the Long Lake Drain was constructed in 1928. Both bridges are approaching the end of their services lives and require replacement.
- This study will take approximately 12 to 18 months to complete and will be followed by a more detailed design study for a preferred alternative

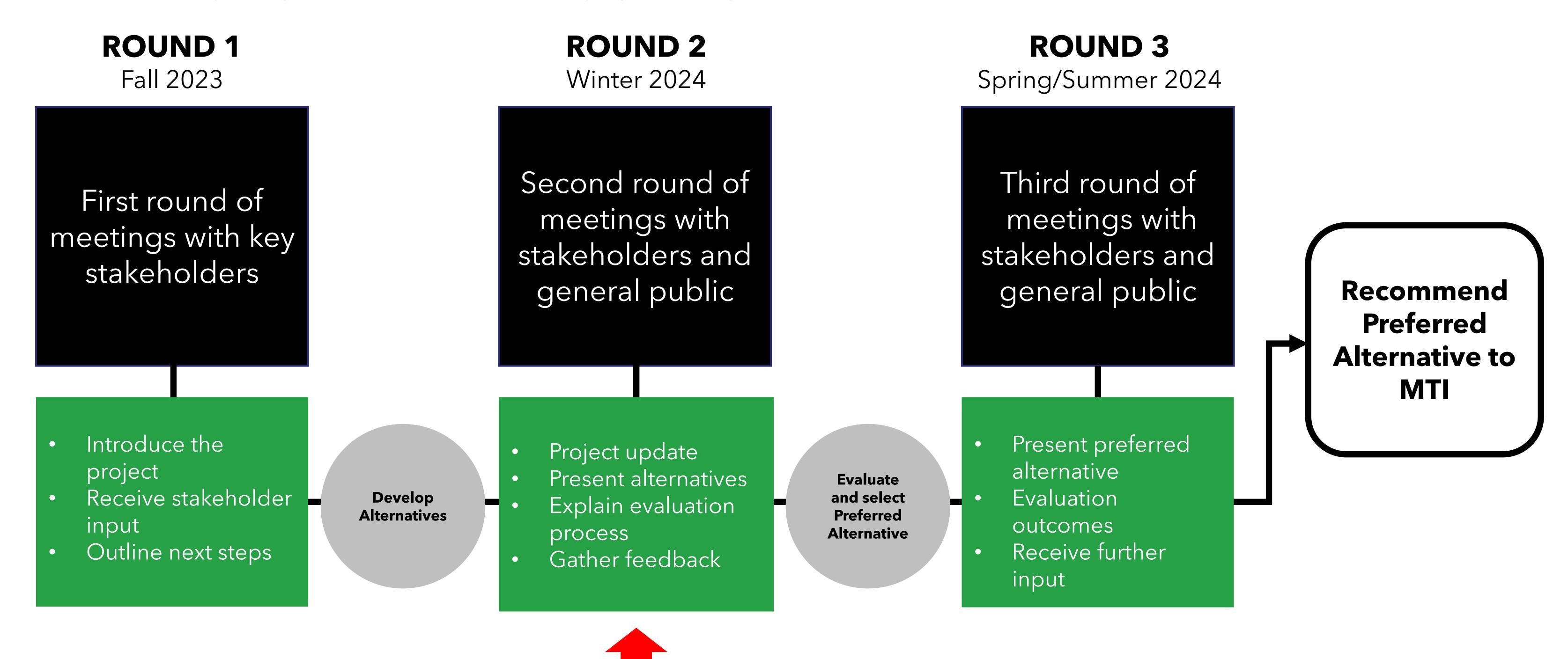






Engagement Process

The following diagram illustrates the engagement process:



WE ARE HERE



Stakeholders

There are many people and groups that may be interested in or affected by this project:

- Indigenous Rights Holders
- RM of St. Francois Xavier
- RM of Cartier
- Residents / landowners
- Agricultural operations
- Business owners
- Local school divisions

- Utilities in the vicinity
- Manitoba Trucking Association
- Local Trail or Recreation
 Groups
- Emergency Services Providers
- Others as identified throughout the engagement process

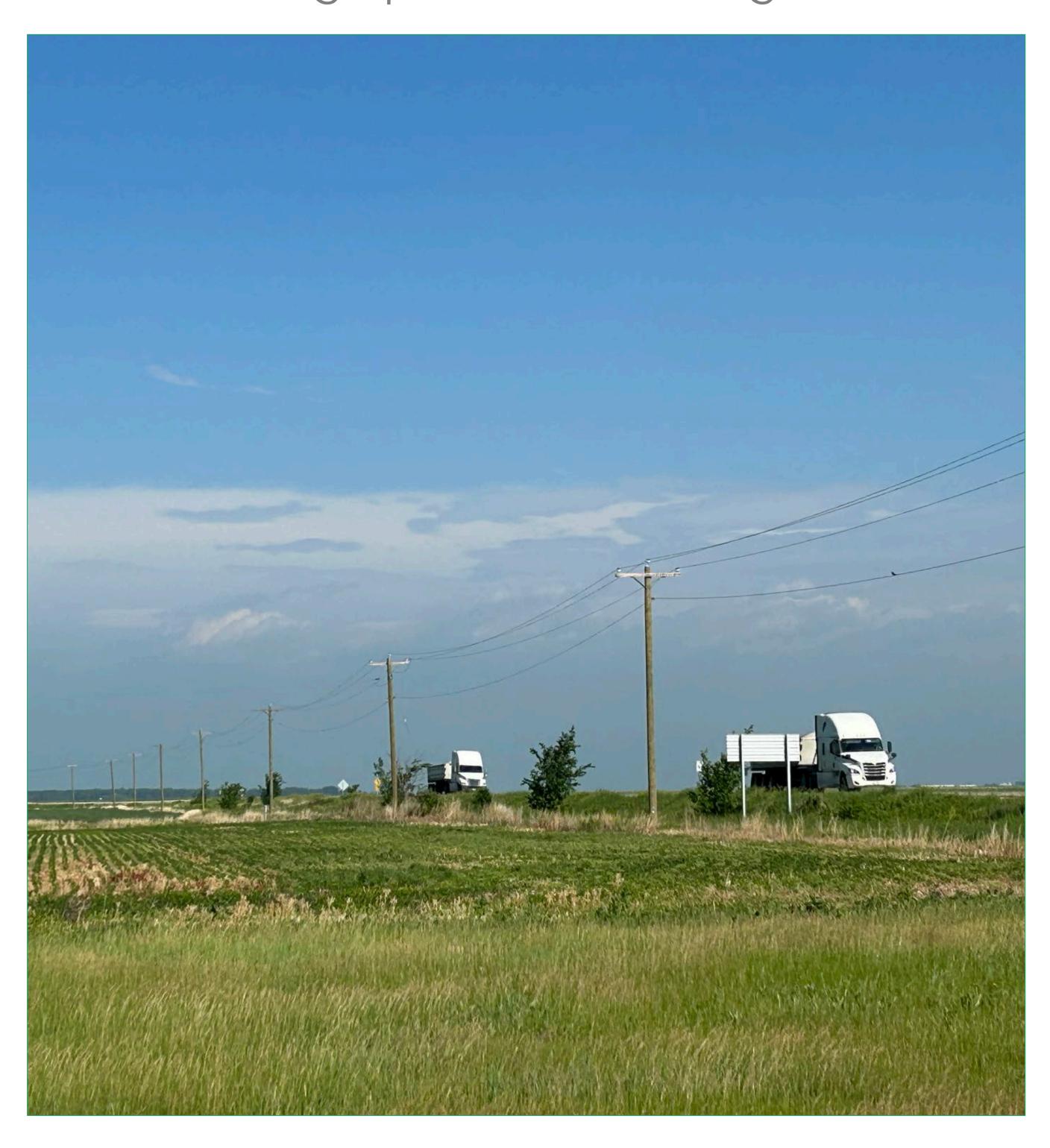




Study Considerations

The study team needs to consider a number of factors in the design process, including;

- Safety and collision history
- Environmental impacts
- Local land use and access patterns
- Right-of-way requirements
- Active transportation requirement
- Cultural or heritage considerations
- Emergency access
- Wildlife
- Traffic projections
- Water crossings and navigation requirements
- Utilities
- Capital and maintenance costs
- Other factors that others may identify through the engagement process, including stakeholder and Rights Holder perspectives on these and other topics





What We Heard (Stakeholders)

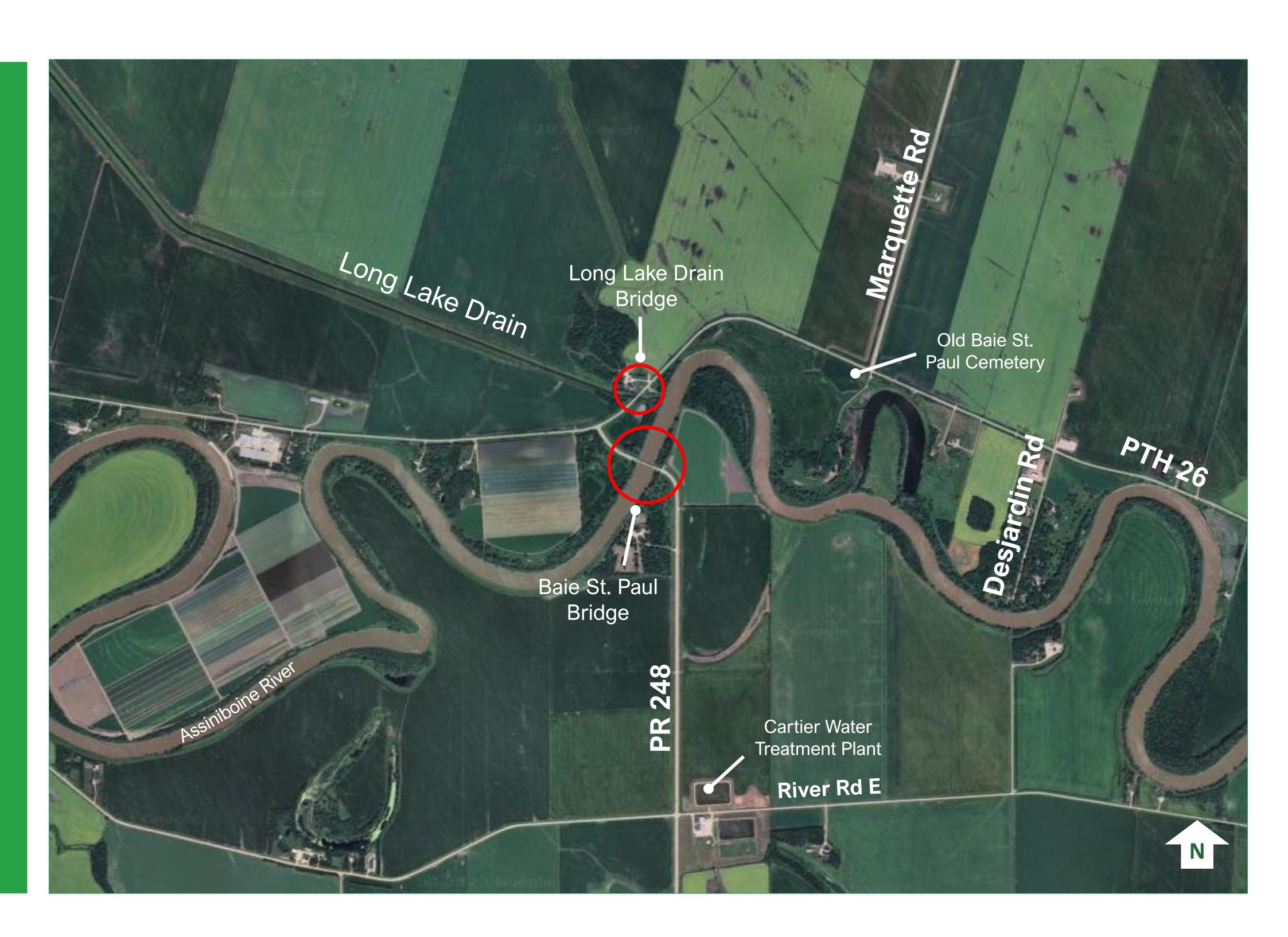
At the first round of Stakeholder Engagement meetings in November - December 2023, some comments were offered by participants including the following. Note that these are comment themes offered by either one or more individuals or groups, and are considered important perspectives for the study team to carefully consider:

- Concern regarding soil conditions
- Concern about agricultural disruption
- Concern about safety in relation to speed limit, visibility, left turns, winter conditions, and truck traffic
- Concern about current structural capacity of the bridges
- Consider flooding risks of any alternative
- Consider Old Baie St. Paul cemetery
- Consider north-south connectivity as the only route between a range of RMs
- Desire to see adequate space for farm equipment crossing movements
- Desire for RTAC connection between PTH6 and Elie
- Concern about land acquisition and value impacts of any alternative
- Consider emergency services and school bus disruption during and after construction
- Questions about construction timeframes
- Questions about costs of any of the alternatives



Study Area Map

This map illustrates the location of the Baie St. Paul Bridge over the Assiniboine River on PR 248 and the Long Lake Drain Bridge on PTH 26





Corridor Alternatives

- There are different corridor alternatives that could be developed to accommodate the new bridge structures and highway alignments.
- Each corridor has advantages and disadvantages that the study team is evaluating. Rights Holder and Stakeholder input supplements technical considerations in the evaluation.
- The next slide illustrates the following corridor alternatives:

a) Realignment North
b) Existing Curve Correction Only



Corridor Alternatives

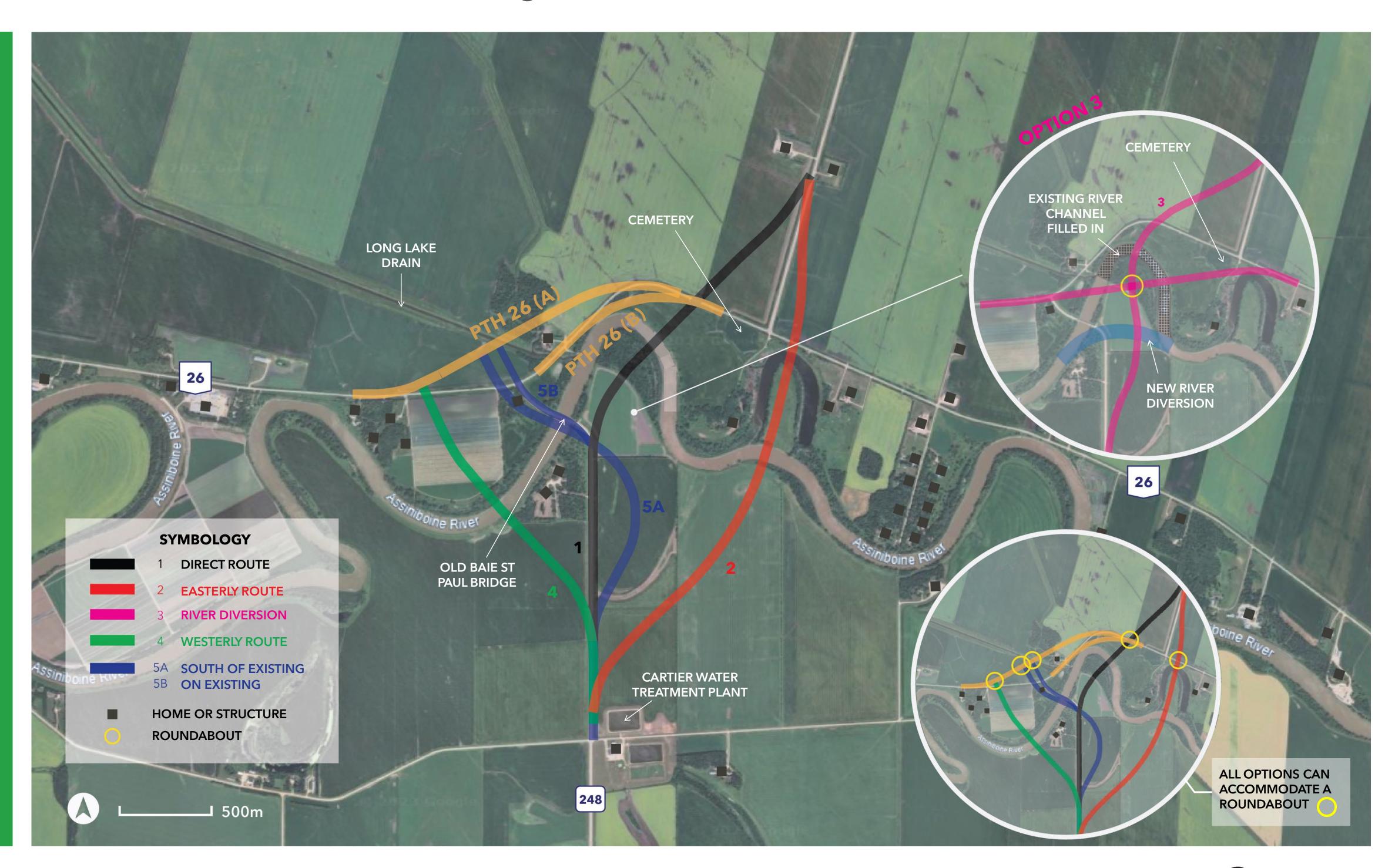
- This slide illustrates possible corridors for evaluation
- Three of the corridors identified would not meet desired highway design standards (Alternatives 4, 5A, and 5B)
- PTH 26 alignment alternatives to be combined with PR 248 alignment alternatives

PR 248

- 1) Direct Route
- 2) Easterly Route
- 3) River Diversion
- 4) Westerly Route
- 5) Reconfigure Existing Bridge Corridor
 - a) South of Existing
 - b) At Existing Location

PTH 26

- a) Realignment North
- b) Existing Curve Correction Only





Alternatives Evaluation Criteria

- This slide illustrates the many considerations for evaluating alternatives at a high level; all considerations are important
- Other considerations can be added

Social

- Land and property acquisition
- Traffic disruption
- Local access changes
- Agricultural land disruption
- Long-term residential disruption
- Project duration
- Emergency services disruption/response
- School transportation disruption
- Potential environmental impacts
- DFO approval process
- Efficient movement of goods
- Future AT/trails accommodation
- Risk of cemetery disturbance

Engineering

- Safety improvement
- RTAC loading accommodation
- Long Lake Drain accommodation
- Overall route length
- Route continuity/connectivity
- Intersection/curve spacing
- Geometry
- Bridge skew
- Number of bridges
- Bridge constructability
- Geotechnical risk
- Erosion risk
- Overall project simplicity



Alternatives Evaluation Criteria

The chart on the next slide shows all the corridor alternatives and relative advantages and disadvantages of each:

- Key topics raised as important by rights holders, stakeholders, project team members are included
- If a topic is missing, it can still be added to make sure it is properly considered
- The alternatives that have the most green ratings are more preferred, while the alternatives that have more yellow and red ratings are less preferred
- The selected alternative should be most effective for highway safety and efficiency, but also give consideration to the other topics
- Once all perspectives are properly understood, and sufficient due diligence is undertaken, a
 preferred alternative can be selected and advanced to a detailed design stage



Alternatives Evaluation Criteria

- This chart illustrates the relative strengths and weaknesses of each corridor alternative
- The chart is a work in progress and further considerations can be added
- Alternatives with more advantages (green) and fewer disadvantages (red) are shown towards the left of the chart
- Alternatives with fewer advantages (green) and more disadvantages (red) are shown towards the right of the chart
- Replacing the bridge only has some advantages but does not meet the intent of the project (see Board 4)
- Alternatives 4 and 5 are routes that do not meet up with highway design standards (red dashed circle)

		Bridge Location and PR 248 Road Alignments						
	PR248 & PTH26 Structures Preliminary Corridors Options Evaluation Criteria	Option 1 Direct Route	Option 2 Easterly Route	Option 3 River Diversion	Option 4 Westerly Route	Option 5		Replace Bridge Only
						a. South of Existing	b. At Existing Location	
		61	49	52	36	31	31	26
	Safety	Best	Best	Best	Lower	Lower	Lower	No improvemen
	Accommodates RTAC Loading	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Accommodates Long Lake Drain							
	Overall Route Length							
D	Route Continuity/Connectivity	Best	Best	Best	ОК	OK	ОК	ОК
ב <u>ֿ</u>	Intersection/curve Spacing							Sub-standard
erın	Geometry	Best	ок ⁽¹⁾	ОК	ОК	OK	ОК	Sub-standard
U	Constructability (3)	Moderate	Moderate	Very Best	Moderate	Moderate	Moderate	Difficult
	Geotechnical Risk	Some (4)	More	More	Some	Some	Some	Least
ng L	Erosion Risk	Higher	Lower	Moderate	Moderate	Lower	Lower	Lower
	Overall Project Simplicity							Simplest
	Bridge Skew ⁽²⁾	90 degrees	90 degrees	90 degrees	90 degrees	90 degrees	90 degrees	90 degrees
	# of Bridges	One	One	One	One	One	One	One
	Other?							
	Other?							
	Land and Property Acquisition	Some	Some	Some	Some	Most	Most	Least
	Traffic Disruption	Least	Least	Least	Least	Least	Least	Some
	Local Access Changes	Least	Some	Some	Some	Some	Some	Some
	Agricultural Land Disruption	Some	Higher	Higher	Some	Some	Some	Least
	Long-term Residential Disruption	Some	Some	Some	More	More	More	Least
	Project Duration							Shortest
	Emergency Services Disruption/Response							
	School Transportation Disruption							
	Potential Environmental Impacts	Some	Most	Most	Some	Some	Some	Least
	DFO Approval Process		More complex	More complex				
	Efficient Movement of Goods	Best	Best	Best	ОК	OK	ОК	OK
	Accommodates Future AT/Trails							
	Risk of Cemetery Disturbance (5)	Some						
	Other?							
	Other?							
_	Accommodates PTH 26 realignment							Does not
ope	Requires Left Turns/Stops for N/S Travel				Yes	Yes	Yes	Yes
	Capital Cost	Moderate	Higher	Higher	Moderate	Moderate	Moderate	Lowest
St	Maintenance Cost							
Cost	Life Cycle Cost							
			1	1	- I			

PTH 26 Alignments					
(A) Realignment North	(B) Existing Curve Correction Only				
52	35				
	Not as good				
	Sub-standard				
	Sub-standard				
Easier	In traffic				
	Along shore				
	Along shore				
n/a	n/a				
n/a	n/a				
117 (3	1770				
More					
Some	None				
One house	No homes				
Through trees	Along waterway				
Through trees	Along waterway				
n/a	n/a				
n/a	n/a				
Higher	Lower				



Key Questions

- Does the early review of corridors make sense to you? Would you add any considerations for the evaluation?
- What impacts or benefits do you see from your own perspective with these corridors?

Your feedback will help the team continue to identify topics of importance and specific information that can be incorporated into the evaluation process.





Next Steps

- Thank you for participating in this process
- We will review the feedback from today's meeting and work to incorporate it into the study
- We will conduct a series of follow-up engagement meetings in the coming months to share a preferred alignment
- In these meetings we will present preferred structure replacements and roadway re-alignments before refining the conceptual design



Thank You. Questions?

Thank you for attending tonight's stakeholder meeting.

Your feedback is important to us, so please fill out an online comment sheet at the following link:

https://www.surveymonkey.com/r/PR248andPTH26R2

If you have any further questions, please contact:

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