PUBLIC INFORMATION CENTRE #2



WELCOME TO THE KING CITY EAST JOINT CLASS 'C' ENVIRONMENTAL ASSESSMENT PUBLIC INFORMATION CENTRE (PIC#2).

Please sign-in on the sheet provided, view display boards and ask questions. There will be no presentation.

The purpose of the second Public Information Centre (PIC) is to present the evaluation of the selected alternative designs and present a recommended design for review by agencies and the public.

The main themes presented are:

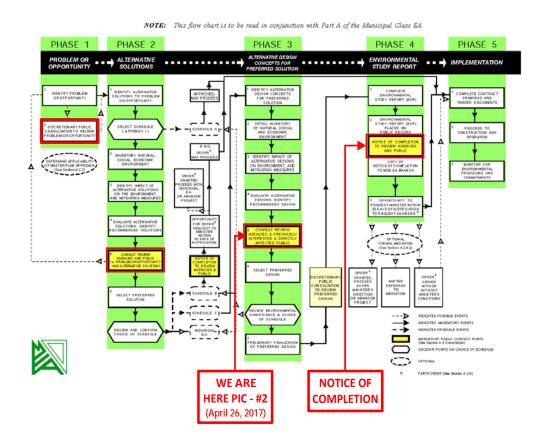
- Result of Preliminary Screening of Alternatives
- Detailed Analysis of Selected Alternatives
- Selection of the Recommended Design Alternative

The Project Team wants to hear from you. Provide comments and ask questions. We will be pleased to discuss any aspect of the project with you.

Comment sheets are available tonight or to take home and send to the Project Team within 30 days (May 26, 2017).

Panels are available to view on the Town's website at www.king.ca

ENVIRONMENTAL ASSESSMENT PROCESS



The King City East Landowners Group is undertaking an integrated approach with the Planning Act for an Environmental Assessment (EA) to determine if a watercourse road crossing is required in the King City East area. The material presented at this PIC will address Phase 1 and 2 (Schedule 'C') of the Planning and Design process as outlined in the Municipal Engineers Association Class Environmental Assessment document (October 2000, as amended in 2007 & 2011).

Problem Statement:

The findings of the Township's Transportation Master Plan and the Council approved Functional Servicing Study (2007) identified the need to create a transportation network within the King East community that provides internal connectivity for residents while minimizing intrusions into the Natural Heritage System.

Project History:

This EA process will build on previous and ongoing studies.

King's Official Plan Review establishes seven policy directions that will inform the preparation of the new Official Plan. These will be considered through the EA process.

The Township's Transportation Master Plan (TMP) was completed in 2014 and provides a conceptual road network for the King City East lands. The road network set by the TMP has been used as a basis for determining crossing locations for the EA process.

A Functional Servicing and Development Area Study (FS/DAS) for the King City East lands was prepared in 2006 for the undeveloped lands in the two quadrants of King City east of Keele Street. This study provided guidance for the location of key infrastructure, parks, trails and an elementary school. The FS/DAS will be updated concurrent with the EA process.

FS/DAS PROCESS

Concurrent with the Environmental Assessment, a Functional Servicing Development Area Study (FS/DAS) update is being carried in support of the development plan and will provide supporting information and details for the EA process.

An FS/DAS for the King City East lands was prepared in 2006 for the undeveloped lands in the two quadrants of King City east of Keele Street.

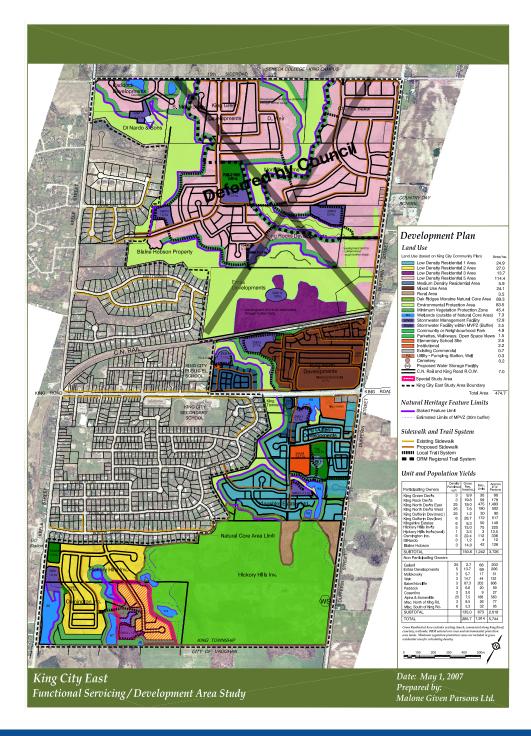
The study provided guidance for the location of key infrastructure, parks, trails and an elementary school. At that time, provision was made for one or two crossings of the valleys.

Council approved the FS/DAS in 2007 for the lands south of the rail and deferred the approval of the northern lands.

The EA and FS/DAS process will inform each other to help to determine if a valley crossing is required and where a potentital crossing will be located.

The results of the EA will be incorporated into the final FS/DAS.





TRANSPORTATION MASTER PLAN

The Township's Transportation Master Plan process (completed in 2014), was undertaken to "guide the development of the Township's long-term transportation vision for the next twenty years and will be undertaken in accordance with the applicable planning policy framework at the provincial, regional, and local levels, including the Provincial Policy Statement."

The study was carried out through an open public process in accordance with the requirements of Phases 1 and 2 of the Municipal Class Environmental Assessment (EA) process.

Key objectives of the Transportation Master Plan

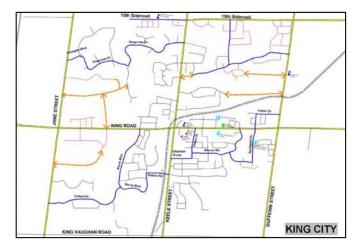
Design urban transportation infrastructure that accommodates all citizens (ages 8 to 80)

Offer alternative modes of transportation to the automobile

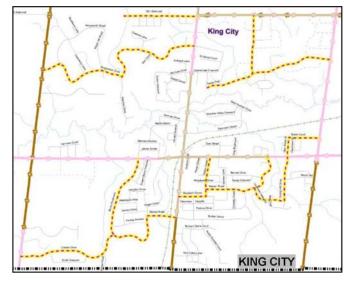
Create complete streets designed to enable safe access for all users (pedestrians, bicyclists, motorists, and transit riders) to contribute to sustainable and livable communities

Promote Active Transportation oriented development and alternatives to the automobile

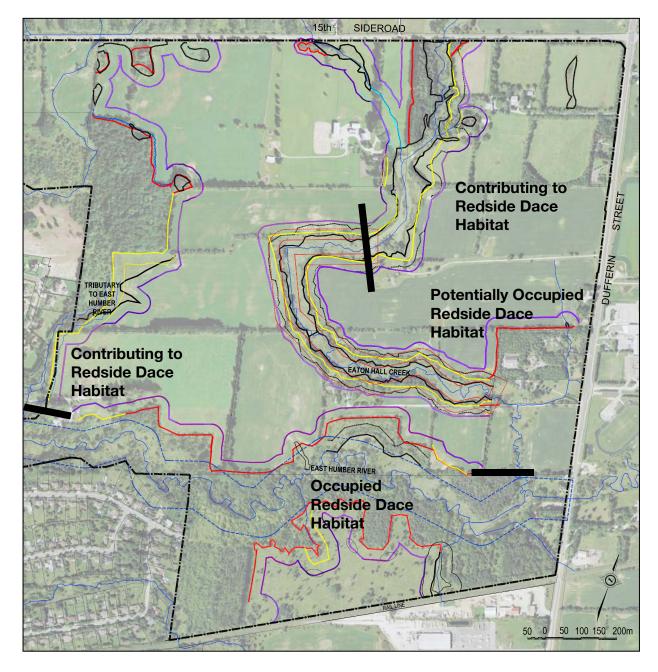
Provide a rational road classification to guide future planning and capital works



King TMP: Proposed Road Network



King TMP: Proposed Cycling Network Improvements



STUDY AREA AND NATURAL HERITAGE SYSTEM



PRELIMINARY SCREENING CRITERIA

Internal Connectivity (schools, bussing, sidewalks)

The community planned for the King City East area north of the railway line is expected to yield approximately 1,000 homes. It includes several parks and an elementary school site. Providing a valley crossing would allow residents to more easily access the school and park sites by walking, bussing, cycling and driving.

The Secondary Plan Community Design Strategy states that "the street pattern and trail system shall provide connectivity between the different areas of the community, but, crossings of natural areas shall be kept to a minimum (Section 9.2.3.2.v).

Internal connectivity also creates benefits for community security and emergency access to the planned community.

The Secondary Plan states that the "safety and security of residents should be a key factor in the design of all development. (Section 9.2.7.1)"

Minimizes Impacts on the Natural Heritage System (# of crossings)

The natural heritage system (NHS) within the study area is comprised of the East Humber River and tributaries and associated valley corridors, Provincially Significant Wetlands, other wetlands, woodlands and terrestrial and aquatic wildlife habitat.

These features have been identified and delineated in the field with the agencies and provide a connected system within the study area.

- If an alternative does not cross the NHS it "meets Criteria".
- If the alternative crosses the NHS one time it has been identified as "Moderate.
- If an alternative has more than one crossing of the NHS it has been ranked as "Not meeting the Criteria".









Source: Ministry of Natural Resource

Consistent with Policy

The Transportation Master Plan (TMP) process undertaken by the Township of King incorporated local, regional and provincial policies including the Places to Grow Plan, the York Region Transportation Master Plan and the Regional Growth Strategy.

The proposed road network from the TMP provides a number of options for creating a connected community in the King East Development area including linkages from Dufferin Street to 15th Sideroad and to Keele Street.

Avoids Impact on Redside Dace Habitat-Endangered Species

The watercourses on the subject property provide either Occupied and Contributing Habitat for the Provincially Endangered fish species, Redside Dace.

- If an alternative avoids any impact on both contributing or occupied habitat it 'Meets Criteria".
- If an alternative crosses contributing habiat it has ranked "Moderate".
- If an alternative requires work within occupied Redside Dace habitat is has been identified as "Does Not Meet Criteria".

PRE-SCREENING OF ROAD NETWORK AND CROSSING ALTERNATIVES

ASSESSMENT CRITERIA	Road Option 1 No Valley Crossings	Road Option 2 Connection to Tawes Trail, No Central Crossing	Road Option 3 Connection to Tawes Trail and Central Valley Crossing	Road Option 4 Central Valley Crossing	Road Option 5 Valley Crossing Near Dufferin	Road Option 6 Multiple Valley Crossings	Road Option 7 Northern Crossing of Central Valley		
Internal Connectivity (schools, bussing, sidewalks)	No internal connectivity is created between the two planned neighbourhoods or the existing neighbourhoods. Access to the potential school site and planned community park is provided via arterial roads for the western and eastern neighbourhoods.	No internal connecivity is created between the two planned neighbourhoods. Access to the potential school site and planned community park is provided via arterial roads for the western and eastern neighbourhoods. Connectivity to Keele Street and existing residential is provided via a connection to Tawes Trail.	Internal connecivity is created between the planned and existing neighbourhoods and is consistent with the TMP. Access to the future school site and community park is provided by collector road connections.	Internal connectivity is created between the planned neighbourhoost and is provided by a pedestrian crossing at Tawes Trail to the existing neighbourhoot. Access to the future school site and community park is provided by collector road connections for the new residential neighbourhoods.	No internal connectivity is created between the planned or existing neighbourhoods. Access to the potential school site and planned community park is provided only by arterial roads for the eastern neighbourhood.	Internal connecivity is created between the two planned neighbourhoods and the existing and planned neighbourhoods to the south and builds upon the road connections within the TMP. Access to the future school site and community park is provided by local road connections.	Less direct internal connecivity is created between the two planned neighbourhoods and is partially consistent with the TMP. Access to the future school site and community park is provided by local road connections but portions of the community remain isolated.		
Number of Watercourse Crossings	0	1	2	1	1	3	1		
Consistent with Policy	Not consistent with the Transportation Master Plan.	Not consistent with the Transportation Master Plan.	Road network shown is consistent with the Transportation Master Plan.	The combined pedestrian and road network shown is consistent with the Transportation Master Plan.	Road network shown is consistent with some elements of the Transportation Master Plan.	Road network shown is consistent with the Transportation Master Plan.	The combined pedestrian and road network shown is consistent with the Transportation Master Plan.		
Impact to Redside Dace Habitat	There are no crossing locations and therefore no impact to Redside Dace contributing or occupied habitats.	The single crossing location crosses Redside Dace "contributing" habitat.	The western crossing location crosses Redside Dace "contributing" habitat while the central crossing location crosses Redside Dace "occupied" habitat.	The central crossing location crosses Redside Dace "occupied" habitat.	The south/eastern crossing location crosses Redside Dace "occupied" habitat.	All crossings shown cross Redside Dace "occupied" habitat including habitat in the East Humber River.	The crossing location crosses Redside Dace "contributing" habitat.		
Public Comment	No public comment received with respect to Option 1.	Public comment was received in opposition to any road connection to Tawes Trail.	Public comment was received in opposition to any road connection to Tawes Trail.	No public comment received with respect to Option 4.	No public comment received with respect to Option 5.	No public comment received with respect to Option 6.	No public comment received with respect to Option 7.		
Option Carried Forward	Not carried forward.	Not carried forward.	Not carried forward.	Carried forward to detailed design and analysis.	Not carried forward.	Not carried forward.	Carried forward to detailed design and analysis.		













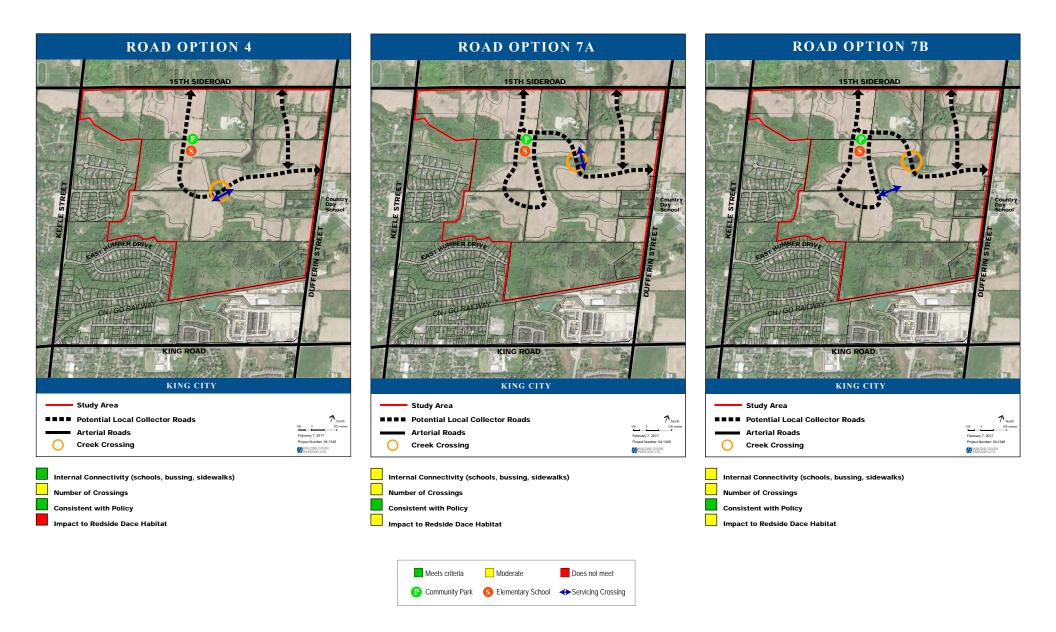


Problem Statement:

The findings of the Township's
Transportation Master Plan and the Council
approved Functional Servicing Study (2007)
identified the need to create a transportation
network within the King East community that
provides internal connectivity for residents while
minimizing intrusions into the Natural Heritage
System.



ROAD NETWORK AND CROSSING ALTERNATIVES



POTENTIAL BRIDGE CROSSING - OPTION 4

DESCRIPTION:

- · Central crossing location
- · Occupied Redside Dace habitat
- · Span required to cross Eaton Hall Creek
- Area identified as a Provincially Significant Wetland
- · Valley and woodland crossing





KEY MAP



VIEW FROM NORTHEAST TO SOUTHWEST



VIEW FROM SOUTHWEST TO NORTHEAST



VIEW FROM SOUTH

POTENTIAL BRIDGE CROSSING - OPTION 7A & 7B

DESCRIPTION:

- · Existing Dam crossing
- · Contributing to Redside Dace habitat
- · Span required to cross Eaton Hall Creek
- · Area identified as a Provincially Significant Wetland
- · Valley and wetland crossing





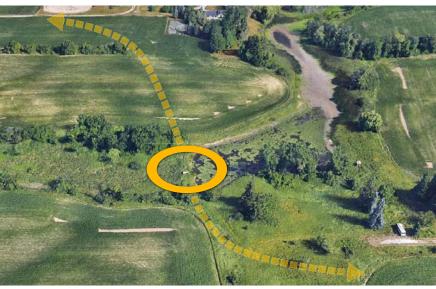
KEY MAP



VIEW FROM WEST TO EAST

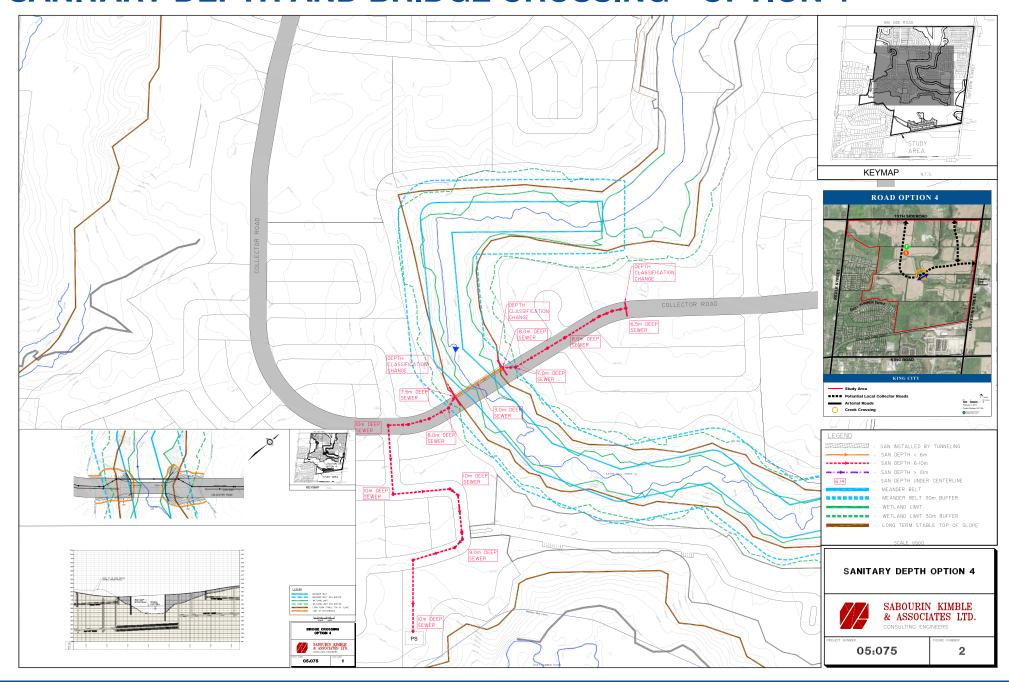


VIEW FROM NORTHEAST TO SOUTHWEST

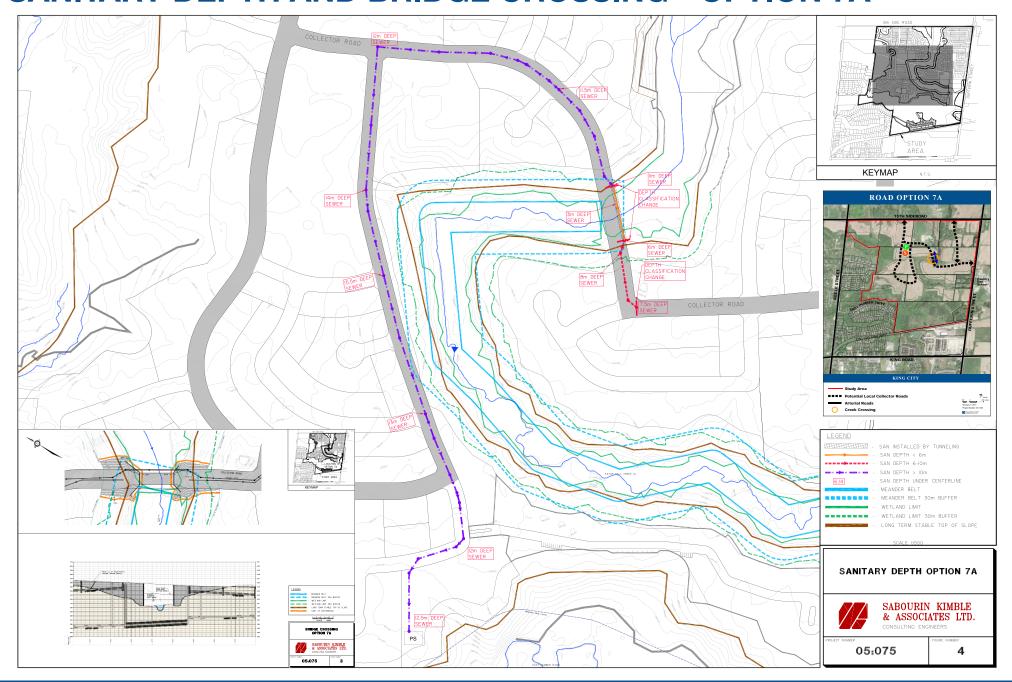


VIEW FROM SOUTH

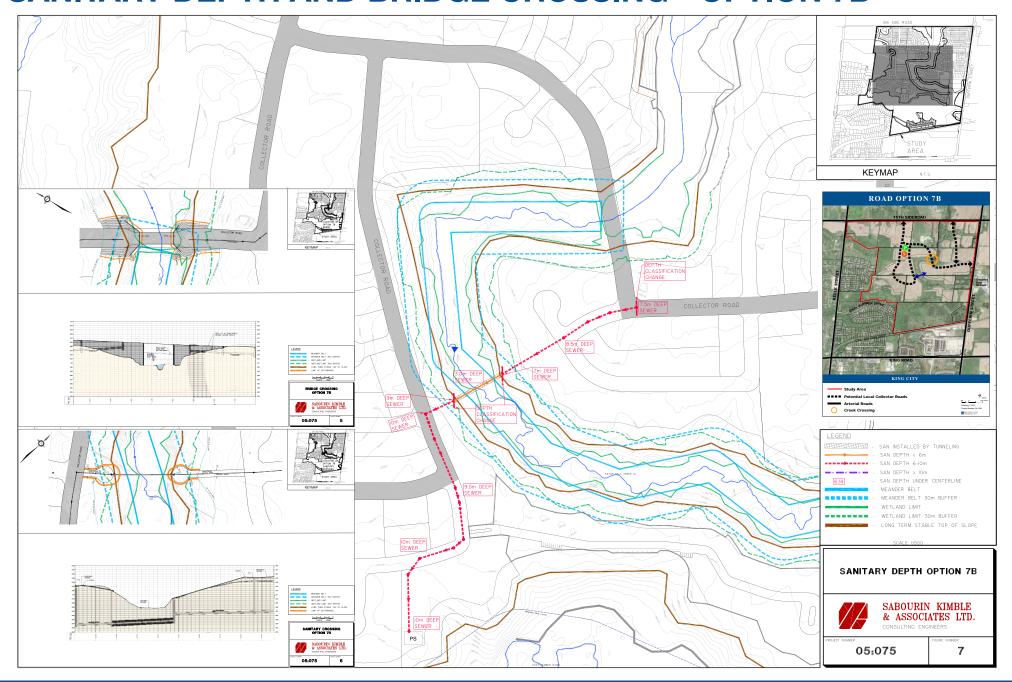
SANITARY DEPTH AND BRIDGE CROSSING - OPTION 4



SANITARY DEPTH AND BRIDGE CROSSING - OPTION 7A



SANITARY DEPTH AND BRIDGE CROSSING - OPTION 7B



SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

## ASSESSION CHICKEN ***OFTICE A CATTORIC COSSION*** ***OFTICE A CATTORIC COSSION** ***OFTICE A CATTORIC COSSION*** ***OFTICE A CATTORIC COSSION** ***OFTICE A CATTORIC COSSION*** ***OFTICE A C	SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT							
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Supports Buyels Maximum The collector rand can accommodate lake and replaces for Part 189 The range based on a support of the part of policy and policy	e from Option 7A.							
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Capital construction cost Capital construction								
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Staginglearly implementation opportunities 3 Provides connectivity and opportunities for the plant of t	rossing and additonal 580 m of							
Summary Score Average 3.0 1.8 2.5	varly implementation of all areas							
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Planning Principles Principle One: Environment First Any development activity which is to take place in King City must be undertaken in a mainre which recognizes its location on the Oak Ridges Moraine and preserves the integrity of the natural environment and natural systems. NA Addressed in Environmental Section. NA								
And development activity which is to take place in King City must be undertaken in a manner which recognizes its location on the Oak Ridges Moraine and preserves the inlegity of the natural environment and relatively systems. Principle Two: Distinctive Community is dealty. Principle Two: Distinctive Community is dealty. Any development activity which is to take place in King City must maintain the distinctive character of the community and set the community and set the community apart from the adjacent more urban municipalities. Principle Two: Distinctive Community and set the community and set the community and set the community apart from the adjacent more urban municipalities. Principle Two: Distinctive Community and set the community which is environmentally and economically sustainable. Principle Two: Healthy Community Any development activity which is to take place in King City will be discontained at reading a healthy King City community which is environmentally and economically sustainable. This option sets the new neighbourhoods to each other. This option sets the new neighbourhoods to each other. 2 This option creates a poorly organized road system with a lack of structure. 2 Social, Economic and Cultural consideration of A. Addressed in Environmental Section. NA Addressed in Environmental								
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Principle Four: Financial Feasibility Any development which is to take place in the family ship is environmentally and economically sustainable. Principle Four: Financial Feasibility Any development which is to take place in King City omnumity which is environmentally and economically sustainable. Principle Four: Financial Feasibility Any development which is to take place in King City must be financially feasible from the standpoint of capital costs and operating and maintenance costs. Most cost efficient. 1 Most expensive from servicing construction and maintenance perspective due to overly deep sanitary sewers. A vide's overly deep sewers and associated as second maintenance access to servicing as another potential crossing for pedestrian. In the event that the Region allocates transit to this community, potential for for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure transit connections between new neighbourhoods is provided but The Township shall ensure that collector and arterial roads are potential for fulfure tra	's do not change from Option							
Any development which is to take place in King Cilly must be financially feasible from the standpoint of capital costs and operating and maintenance perspective due to overly deep sanitary severs. 3 Most cost efficient. 1 Most expensive from servicing construction and maintenance perspective due to overly deep sanitary severs. 2 a sonther potential crossing for pedestriar as nother potential crossing for pedestriar to this community, the potential for fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods is provided but 1 fulture transit connections between new neighbourhoods	's do not change from Option							
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O Decise Decisio Con Engineera and Lateration	's do not change from Option							
Design Principle One: Environmental Integration 9 23 Design Principe Cone: Environmental Integration 9 23 Design Principe Cone Environmental Integration 10 Design Principe Cone: Environmental Integration 11 Design Principe Cone: Environmental Integration 12 Design Principe Cone: Environmental Integration 13 Connectivity between different areas is provided. One crossing of a natural area is required. 13 Connectivity between different areas is provided. One crossing of a natural area is required. 12 Social, Economic and Cultural consideration area is required. 13 Social Economic and Cultural consideration area is required. 14 Social Economic and Cultural consideration area is required.	's do not change from Option							
9.2.7 Design Principle Five: Safety and Security Safety and security of residents should be a key factor in the design of all development. 1 Direct emergency access to most of the lands would be provided from Dufferin and 15th Sideroad. 1 Direct emergency access to lands east of the valley would be provided from Valley move time to access. If a pedestrian bridge is constructed to address connectivity, there could be a security concern.	's do not change from Option							
Other Planning Considerations								
Reserved Elementary School Site Better location of an access to school site. Primary reason for crossing the valley is to access the school from the east without traveling on an Arterial road. Less interuption from collector road system allows for campusing of the school site and community park. Community Park 2 Social, Economic and Cultural consideration of the school site and community park is campused with school site and adjacent to valley trails and SWM block. Primary reason for crossing the valley is to access the school from the east without traveling on an Arterial road. Community Park 2 Social, Economic and Cultural consideration of the school site and adjacent to valley trails and SWM block. Primary reason for crossing the valley is to access the school from the east without traveling on an Arterial road. Community Park 2 Social, Economic and Cultural consideration of the school from the east without traveling on an arterial road. Community Park 2 Social, Economic and Cultural consideration of the school from the east without traveling on an arterial road. Community Park 2 Social, Economic and Cultural consideration of the school from the east without traveling on an arterial road. Community Park 2 Social, Economic and Cultural consideration of the school from the east without traveling on an arterial road. Community Park 2 Social, Economic and Cultural consideration of the school from the east without traveling on an arterial road. The central crossing creates a community that is closely linked to the round the school from the east without traveling on an arterial road. The design provides connectivity between subdivisions that is less Social, Economic and Cultural consideration of the school from the east without traveling on an arterial road. The design provides connectivity between subdivisions that is less Social, Economic and Cultural consideration of the neighbourhood. Primary reason for crossing the valley is to access the school	's do not change from Option							
the school site and community park. 2 Community park is campused with school site and adjacent to valley trails and SWM block. Primary reason for crossing the valley is to access the community park is community park in the east without traveling on an arterial road. 2 Community park separated by roads from school, valley and trails. Park depth is constrained by natural features and need for second road access to SE lands.	s do not change from Option							
King Township Sustainability Plan Make Kings villages more walkable and improve connectivity between subdivisions, parks, schools, businesses and other amenities The central crossing creates a community that is closely linked to the Townships Sustainability Plan. The design promotes connectivity between a connectivity between subdivisions, parks, schools, businesses and other subdivisions, the reserved elementary school site, the community park and the future recreation centre. The dam crossing location partially achieves the Townships Sustainability Plan. The design provides connectivity between subdivisions that is less direct and requires a pedestrian crossing to efficiently provide access to the reserved elementary school site and the community park.	's do not change from Option							
Summary Score Average 2.8 1.7 1.8								

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

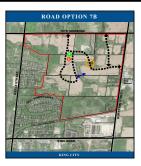
SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT								
THE KING CITY EAST LANDOWNERS' GROUP				OPTION 4: CENTRAL CROSSING		OPTION 7A: DAM CROSSING		OPTION 7B: DAM CROSSING - SEPARATE SERVICING LOCATION
ASSESSMENT CRITERIA		CONSUL	One	e south-central valley crossing at narrowest point.	One	e north-central valley crossing above existing dam location. Servicing crossing within roadway.		e north-central valley crossing at existing dam location. Servicing crossing under valley lands th of dam location.
	Encroachment into Natural Feature Limits							
	Encroachment into corridor protection area		3	Total area of disturbance (i.e., area of development & bridge span including sanitary) includes approximately 4,551.8 m2.	2	Total area of disturbance (i.e., area of development & bridge span including sanitary) includes approximately 5,226.6 m2 plus potential bike crossing.	1	Total area of disturbance (i.e., area of development & bridge span & sanitary) includes approximately 6,459 m2 plus potential bite crossing.
				To compensate for the encroachment the removal of the dam north of the crossing and stream rehabilitation is proposed.		To compensate for the encroachment the removal of the dam north of the crossing and stream rehabilitation is proposed.		To compensate for the encroachment the removal of the dam north of the crossing and stream rehabilitation is proposed.
Natural Environment				Disturbance area includes: - Welland (PSW) + 30 m buffer total of 3.309 m2 - Bridge span 817 m2 - Bridge infrastructure/loolings: 2,491 m2		Disturbance area includes: - Wetland (PSW) + 30 in buffer total of 4,437 m2 - Bridge span 877 m2 - Bridge span 577 m2 - Bridge infrastructure foolings: 3,559 m2		Disturbance area includes: - Welland (PSW) + 30 m buffer total of 4.382 m2 - Bridge span 22 m2 - Bridge intrastructuro/toolings: 3.559 m2
	Provincially Significant Wetland (PSW)	Beacon	3	There are minimal impacts to the large, wide complex riparian wetland meadow marsh units. Buffers to natural feature limits will be reduced.	2	Area of impact from potential bike crossing to be determined.	1	Proposed sanitary at central location total area of disturbance is about 944 m2. Total encroschment into Natural Feature Limits includes: - Wetland (PSW) + 30 m buffer total of 468 m2 Buffers to natural feature limits will be reduced. Area of impact from potential bile crossing
	Woodlands (staked)		1	Butters to natural reature limits will be reduced. No encroachment into significant woodlands		No encroachment into significant woodlands	1	to be determined. No encroachment into significant woodlands
	Valleylands		3	Encroachment to valleylands total area of 1,206 m2 (top of bank)	2	Encroachment to valleylands total area of 1,391m2 (top of bank) plus bike crossing. Area of impact from potential bike crossing to be determined.	1	Encroachment to valleylands total area of 1,391 m2 (top of bank) The installation of sanitary at central beation total area of encroachment to valleylands is 81.1 m2 plus potential bike crossing. Area of impact from potential bike crossing to be determined.
	Impact to Surface Water Resources and Aquatic						3	
	Number of watercourse crossings		3	Single watercourse crossing, proposed as a span of the watercourse and fish habitat.	2	Removal of dam replaced with single watercourse crossing, proposed as a span of the watercourse and fish habitat plus potential bike crossing at central location (Option 4).	1	Removal of dam replaced with single watercourse crossing proposed as a span of the watercourse and fish habital plus potential bike crossing at central location (Option 4).
Natural Environment	Aquatic Habitat		1	Low potential effects to aqualic species and habitat through sedimentation during construction which will be addressed through implementation of Best Management Practices identified at detail design as part of miligation, (occupied reach -optimum lish habitat)	3	Low potential effects to aquatic species and habitat through sedimentation during construction which will be addressed through implementation of Best Management Practices identified at detail design as part of miligation. (primarily contributing reach)	2	Installation of sanitary in the central crossing (Option 4) Low potential effects to aquatic species and habital through sedimentation during construction which will be addressed through implementation of Best Management Practices identified a detail design as part of miligation, Cimranity contributing reach)
Natural E		Beacon		Potential changes to watercourse may include increased shade from bridge crossing		Potential changes to watercourse may include increased shade from bridge crossing. This option provides the greatest amount of shade leput to the pond. Low potential for the provides to aquatic species and habitat through installation of a potential bible crossing at central location.		Potential changes to watercourse may include increased shade from bridge crossing Low potential effects to aqualic species and habital through installation of sanitary and potential bike crossing at central location which will be addressed using the most
	Tree Removal	1		Tree removals required – hedgerows and cultural thickets. During detail design the mitigation of potential construction impacts on the vegetation will be considered when developing the erosion and sediment control plans. Riparian planting will compensate for any disturbance	2	Minimal tree removals required - hedgerows and cultural thickets. During detail design the nitigation of potential construction impacts on the vegetation will be considered when developing the existen and sediment control plans. Riparlian planting will compensate for any disturbance	2	appropriate method (i.e., tranchiess techniques) Minimal tree removals required - hodgerous and cultural thickets. During detail design the militgation of potential construction impacts on the vegetation will be considered when developing the ensisten and sediment control plans. Riparian planting will compensate for any disturbance
	Species At Risk (SAR)							
		Г	1	Regulated Redside Dace Habitat - Occupied	3	Regulated Redside Dace Habitat - Occupied (SW of dam)	2	Regulated Redside Dace Habitat - Occupied (SW of dam)
nvironment	Rediside Dace (RSD)			Area of disturbance: Regulated Redside Dace Habitat total of 3479 m2 - Bridge span: 817 m2 - Bridge intrastructure/footings: 2,661 m2		Area of disturbance: Regulated Rediside Dace Habitat total of 738 m2 - Bridge span: 76 m2 - Bridge infrastructure/footings: 662 m2		Area of disturbance: Regulated Rediside Dace Habitat total of 738 m2 - Bridge span: 76 m2 - Bridge span: 76 m2 - Bridge span: 76 m2 - Bridge infastructura/foolings: 662 m2 - Sanitary: Requisided Rediside Dace Habitat total of 924 3 m2 Total Regulated Rediside
						Reciside Dace Habitat - Contributing (northeast of dam) Westland total of 1274 m2		Dace Impacted (Crossing + Sanitary): 1,662.3 m2 Redside Dace Habitat - Contributing (northeast of dam) Wetland total of 1145 m2
	Ketistie Dec (KSD)			This oplion requires the crossing of a watercourse and wetland that are occupied habitat for Redside Dace. The proposed structure will span the watercourse.		This option requires the crossing of a small area of occupied habitat for Redside Dace and a larger area habitat of contributing Redside Dace. The proposed structure will span the watercourse and pond area.		This option requires the crossing of a small area of occupied habitat for Redside Dace and a larger area habitat of contributing Redside Dace. The proposed structure will span the watercourse and pond area.
Natural Envir				Low impacts to Redside Dace due to potential shading impacts on vegetation and exacerbated channel erosion rates caused by structure High temporary impacts to riparian vegetation (Regulated Redside Dace habitat) due to		Low impacts to Redside Dace due to potential shading impacts on vegetation and exacerbated channel erosion rates caused by structure Moderate permanent impacts to Redside Dace habital (contributing) within the wetland due		Low impacts to Redside Dace due to potential shading impacts on vegetation and exacerbated channel erosion rates caused by structure Moderate permanent impacts to Redside Dace habitat (contributing) within the wetland due
N				right engod of impacts in upstant requestion (requisition recised necesser back natural) use to construction access, and grading High permanent impacts to Regulated Redside Dace habitat within the wetland due to infrastructure footprint requirements		notes are permanent injusts to recover their manual (controlling) within the wealth used to infrastructure lookprint requirements Area of impact from potential bike crossing to be determined.		to infrastructure footprint requirements This option requires additional crossing at the central location (at Option 4) for sanitary purposes. The proposed method of installation (i.e. directional drilling) would result in low temporary impact to riparian vegetation (occupied Rediside diace habitat)
	Barn Swallow		2	New Barn Swallow structure installed as per ESA is not in proximity to roads of this option.	1	New Barn Swallow structure installed as per ESA is in proximity to roads of this option.	1	Area of impact from potential bike crossing to be determined. New Barn Swallow structure installed as per ESA is in proximity to roads of this option.
	Butternut		1	Potential interaction with Butternut and Butternut habitat in the northeast quadrant of the	1	Potential interaction with Butternut and Butternut habitat in the northeast quadrant of the	1	Potential interaction with Butternut and Butternut habitat in the northeast quadrant of the
	Bals		2	property. Moderate potential Bat habitat within the Hedgerows and Cultural Thicket communities.	3_	property. Low potential Bat habitat within the Cultural Woodland communities at the dam location.	1	property. Low potential Bat habitat within the Cultural Woodland communities at the dam and
				Hedgerows composed of American Elm (Ulmus Americana), Manitoba Maple (Acer negundo), Buckthorn (Rhamnus cathartica) and Hawthorn (Cratiesgus spp.) (dominated), as well as a small patch of Trembling Aspen (Populus tremuloides).				sanitary locations (Opilon 4) Permanent access road to the sanitary location has moderate potential Bat habitat within the Hedgerows and Cultural Thicket communities.
Natural Environment				Cultural Thickets include: Sugar Maple (Acer saccharum), Red Oak (Quercus rubra) and American Busswood (Tilia americana) "Studies to be completed in 2017		'Studies to be completed in 2017		"Studies to be completed in 2017
	Landscape connectivity and Wildlife Corridor Functions Terrestrial (Wetland, Valley, Woodlands)	r		Potential effects on wildlife habital within the valley corridor due to increased light and noise effects from valley crossing, potential road mortally. Existing wildlife controllers associated with the Eaton Hall Creek and the East Humber River will be maintained for both terresistial and aquatic species	1	Potential effects on wildlife habital within the valley corridor due to increased light and noise effects from valley crossing: potential road mortality. Existing wildlife conditors associated with the Eaton Hall Croek and the East Humber River will be maintained for both tomeristin and warvist roaders.	1	Potential effects on wildlife habital within the valley corridor due to increased light and noise effects from valley crossing; potential road mortality. Existing wildlife corridors associated with the Eaton Hall Creek and the East Humber River will be maintained for both herrestrial and aqualits species.
	Aquatic (Watercourse)			will be maintained for both lerresitial and aquatic species Proposed span structure will not impede watercourse, wetland or valleyland functions with respect to north-south landscape connectivity. Reduced buffers at the crossing location.	2	will be maintained for both terrestrial and aquatic species Proposed span structure will not impede watercourse, wetland or valleyland functions with respect to north-east landscape connectivity. Reduced buffers at the bridge and potential bible crossing locations.	1	Proposed span structure will not impede watercourse, welland or valleyland functions with respect to north-east or north-south fundscape connectivity. Reduced buffers to natural features will be required at the bridge and potential bible crossing locations.
	Summary Score Average	_	1.9		1.9		1.2	Reduced buffers to natural features at the central crossing for the sanilary.
	ammany occurrentage		,		7		2	

SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

THE KING CITY EAST LANDOWNERS' GROUP		SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT									
			OPTION 4: CENTRAL CROSSING		OPTION 7A: DAM CROSSING		OPTION 7B: DAM CROSSING - SEPARATE SERVICING LOCATION				
ASSESSMENT CRITERIA		One	ne south-central valley crossing at narrowest point.		One north-central valley crossing above existing dam location. Servicing crossing within roadway.		One north-central valley crossing at existing dam location. Servicing crossing under valley lands south of dam location.				
Discipline Summary											
Transportation		3.0	Most efficent and logical collector road system that will connnect new neighbourhoods and will provide direct bicycle and trail routes within the new neighbourhoods in accordance with the TMP. The collector road system would best suit transit routing should it occur.	1.4	Convoluted and lengthy collector road system requires off-road pedestrian and bicycle connections to meet TMP. Not as supportive of future transit should it occur.	1.4	Convoluted and lengthy collector road system requires off-road pedestrian and bicycle connections to meet TMP. Not as supportive of future transit should it occur.				
Technical		3.0	Shortest and most efficient servicing and collector road layout.	1.8	Excessively deep servicing does not meet Township standards and has less direct and lengthier collector roads.	2.5	Separate valley crossings for bridge and servicing provides efficient servicing but less direct and lengthier collector roads.				
Environmental		1.9	One crossing of redside dace occupied habitat with a bridge outside of the meander belt will not impede watercourse, wetland or valley functions and north-south connectivity.	1.9	One crossing north of redside dace occupied habitat with a bridge outside of the meander belt will not impede watercourse, wetland or valley functions and north-south connectivity however it is likely a second crossing for the trail/blke system within redside dace occupied habitat may be required to meet the objectives of the TMP and coould have an additional impact on the valley system.	1.2	One crossing north of redside dace occupied habitat with a bridge outside of the meander belt will not impede watercourse, wetland or valley funcitons and north-south connectivity however intrusion into the valley for the servicing maintenance access and the likely use of the access road for a trail/bike system within redside dace occupied habitat may be required to meet the objectives of the TMP and could have an additional impact on the valley system.				
Social, Economic and Cultural		2.8	Central crossing will provide direct connections between the new development on either side of the valley system in an efficient and logical manner while providing pedestrian and cycling connections to the existing neighbourhood to the west in the same location. It will provide logical connections to the communty park and potential school site and will provide for the best access to the southwest portion of the new community for emergency access purposes.	1.7	The northern crossing will provide less direct road connections between the new development on either side of the valley system and pedestrian and cycling connections to the existing neighbourhood to the west. It will provide less direct connections to the community park and potential school site than Option 4. Access to the southwest portion of the new community for emergency purposes is less direct than Option 4. Servicing costs are high due to deep sewers that would result in higher construction and maintenance costs.	1.8	The northern crossing will provide less direct road connections between the new development on either side of the valley system and pedestrian and cycling connections to the existing neighbourhood to the west. It will provide less direct connections to the community park and potential school site than Option 4. Access to the southwest portion of the new community for emergency purposes is less direct than Option 4. Servicing is more cost effective than Option 7a as the second crossing location allows sewer depths to meet Township standards.				
Overall Average Score		2.7	RECOMMENDED ALTERNATIVE	1.7		1.7					







NEXT STEPS

The project team will summarize stakeholder and agency comments and input to assist in selecting the Preferred Alternative. Detailed engineering will proceed with the selected Preferred Alternative.

Following the selection of the Preferred Alternative the project team and Township will;

- Host an optional public open house to review the Preferred Design if required
- Submit the Environmental Study Report to the Ministry of the Environment and Climate Change (MOECC)
- Provide a Notice of Completion to review agencies and the public
- Provide the final detailed design and Environmental Study Report for review by agencies and the public at the King City municipal office and public library

Following the submission of the Environmental Study Report there will be a 30 day period where an order (appeal) to the MOECC can be requested.

PHASE 1 PHASE 2 PHASE 5 PHASE ALTERNATIVE SOLUTIONS PROBLEM OR • •

IMPLEMENTATION PPROVED-NY PROCEE STUDY REPORT (ES I SCHEDULE A INVENTORY NATURAL SOCIAL ECONOM ENVIRONMENT SCHEDULE B SELECT PREFERRED INDICATES MANDATORY EVENTS PARTII ORDER (See Section A.2.8) **WE ARE NOTICE OF** HERE PIC - #2 COMPLETION (April 26, 2017)

NOTE: This flow chart is to be read in conjunction with Part A of the Municipal Class EA

Questions and comments? Please contact

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