

DEC 11 2015

ITEM: TT2015-0905

Disbursement

CITY CLERK'S OFFICE

Draft Multiple Account Evaluation Framework:
 4 Street SE to 24 Ave N

TT2015-0905
 ATTACHMENT 1

DRAFT MULTIPLE ACCOUNT EVALUATION FRAMEWORK: 4 STREET SE TO 24 AVE N

MAJOR ACCOUNTS	PROJECT OBJECTIVE	EVALUATION CRITERIA	EXPANDED DESCRIPTION	REPRESENTATIVE METRIC
Financial Capacity/ Sustainable Corporation	An affordable and cost effective service, a service that has cost that are achievable, sustainable in the long term and provide value for money.	Capital Cost	Consideration of full costs to construct the options based on the latest cost estimates.	\$ Million
		Land Cost	Consideration for the quantity of land required to be purchased to accommodate LRT infrastructure.	Number of parcels impacted
		Operating and Maintenance Cost	Consideration of the overall life cycle costs to operate and maintain LRT infrastructure.	\$ Million / Year
		Cost Per Rider	Consideration of potential number of transit ridership against the construction cost of each option.	Cost / Rider
Community Well-Being	A safe, secure and socially inclusive service that improves access to key community destinations and encourages walking and cycling.	Community Cohesion	Consideration for the different level of visual intrusion and severance on neighboring properties, as well as ease of station integration of options into existing urban form, particularly around portals, ramps and elevated structures.	Qualitative Assessment
		Impact to Recreational Uses	Consideration for impact or disruption to community events or high profile festivals during LRT system construction and potential relocation of event venue due to permanent site disruption.	Qualitative Assessment
		Safety, Security and Emergency Access	Consideration for the safety of the system, including ease of application of CPTED design principles, as well as time for emergency response services to access different areas of the system to address any emergency incident.	Qualitative Assessment
		Accessibility	While all options will be made accessible to all users, different options present a different level of ease of accessibility to station platforms. Consideration for the physical time for any system user to gain access to a station platform.	Qualitative Assessment
Transportation	A high priority transit service that attracts transit use, walking & cycling as preferred mobility choices for Calgarians that integrates with, improves customer experience, meets the future demand of, and strengthens the regional & local transit networks.	Journey Time for LRT	Consideration for the length of LRV travel time for each alignment.	LRT run times
		Transportation Network Reliability	Consideration for displaced business and residential access, traffic operations, and demand along adjacent existing transportation network.	Traffic Assessment
		Integration with Existing Transit Service and Customers	Consideration for providing quick and convenient transfers to the existing LRT and bus network.	Qualitative Assessment
		LRT Service Reliability	Consideration for impact to LRT reliability due to the interaction between LRV and pedestrians or vehicles that may lead to incidents that disrupt transit service.	Qualitative Assessment
		Ridership	Consideration for the number of riders predicted for each option.	Ridership Assessment

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Urban Development/ Urban Realm	A service that support current and future land use, and intensification of development along the corridor, integrating with the communities it passes through.	Active Streets: Multi-modes, Connectivity, and Accessibility	Consideration for addition of new cyclist or pedestrian facilities along corridor to support active transportation in the City.	Qualitative Assessment
		TOD and Development Potential	Consideration for how well station locations and the alignment options integrate into existing land uses, and provide opportunity for future development.	Qualitative Assessment
		Streetscape and Public Realm	Consideration of the planned improvements for each of the alignments, focusing on urban design goals of Memorable Places, Great Streets and Quality Buildings. (i.e. amenity spaces, urban landscaping and street design)	Qualitative Assessment
		Impact on Parking	Consideration for the impact on the availability, location and access to parking for the different options.	Qualitative Assessment
Sustainable Environment	A service that facilitates reduces GHG emissions while not impacting the city's current natural environment.	Impact on Existing Natural Environment	Consideration for the impact on biodiversity and natural environment and during the construction of the option and its ultimate configuration.	Qualitative Assessment
		Environmental Soil Conditions and Contamination	Consideration for the number of contaminated sites that may be disturbed for each option and impacts of construction in areas of sub optimal soil conditions.	Number of parcels impacted
		Adaptability to Extreme Climate Conditions	Consideration of the ability of each option to adapt to extreme weather conditions and climate changes.	Qualitative Assessment
		Noise Impacts	Consideration for the noise impacts during operation of the system and its impact on residences, businesses and other sensitive receptors.	Qualitative Assessment
Feasibility/ Deliverability	A service that can be constructed and operated without significant technical issues or constraints.	Constructability	Consideration for the technical constraints, including geotechnical, archaeological, existing utility infrastructure, as well as physical challenges (gradients, system expandability, etc.) associated with each type of guideway (i.e. elevated, tunnel, at-grade) and the risk premiums related to each.	Risk Premium Assessment
		Construction Impacts	Consideration for the impacts to the surrounding environment during construction including traffic impacts, neighborhood disruptions, construction laydown areas, excavation material removal for tunnel construction, and bridge construction staging.	Qualitative Assessment
		Impacts to Residences and Businesses	Consideration for the impacts to neighborhoods and existing business operations during the construction of the option as well as permanent changes to access and circulation.	Qualitative Assessment
		Archeological/Heritage Impacts	Consideration for the number and type of impacts on properties with local/ regional heritage value, architectural merit or community facilities or known archaeological site, as a result of construction or operation of the option.	Number of sites impacted