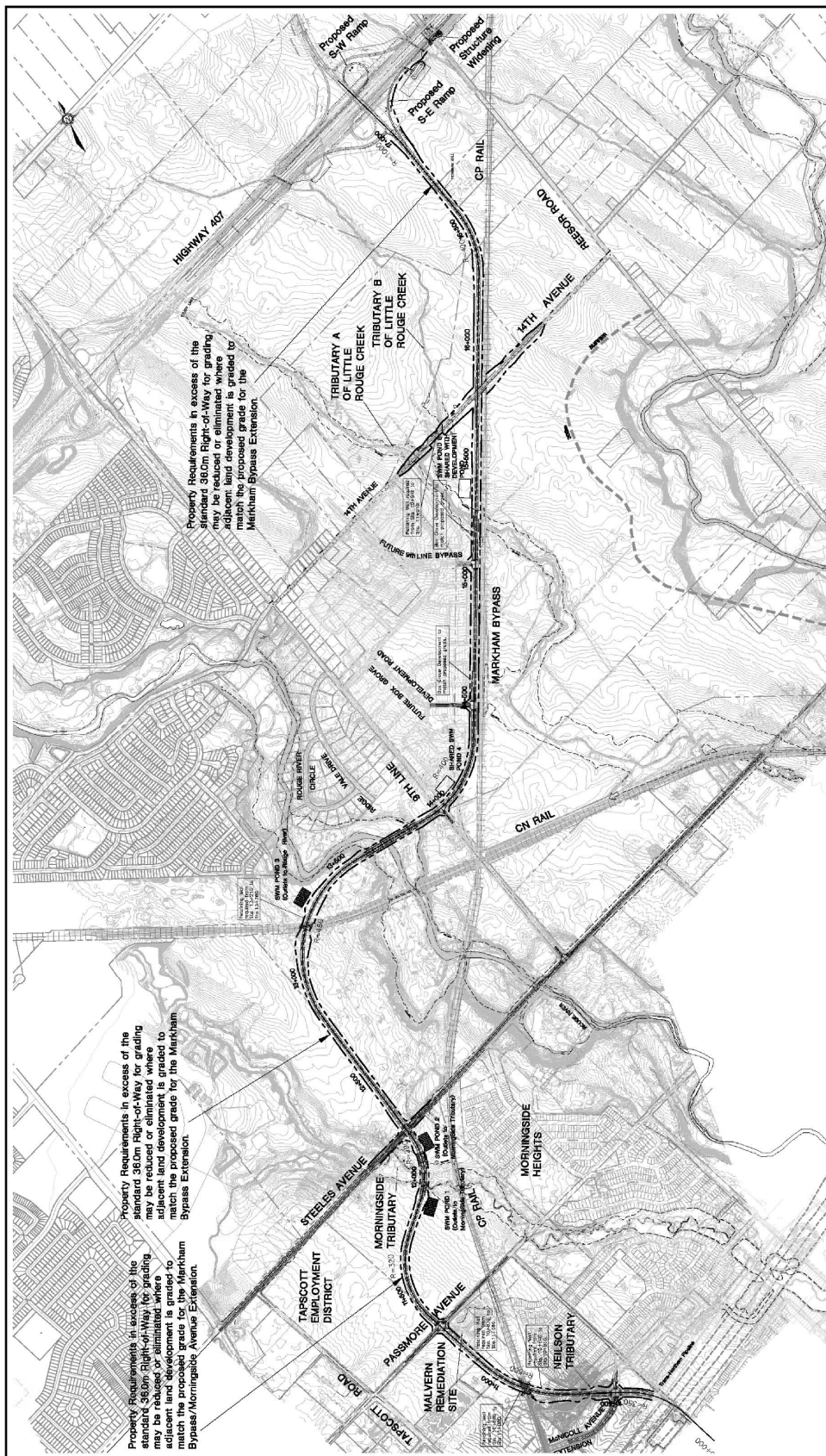
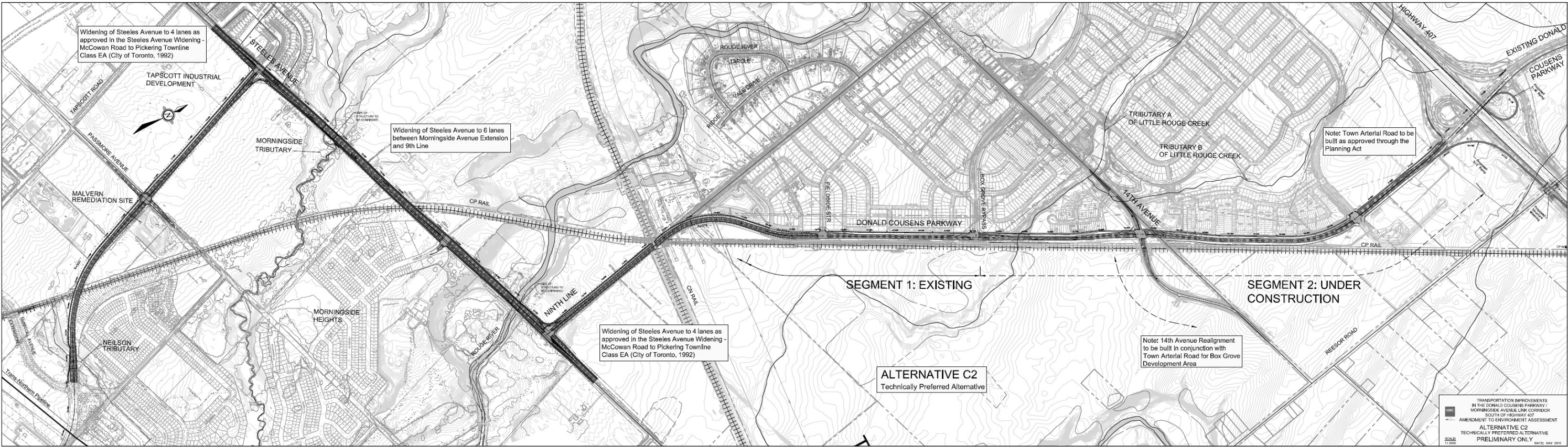


(2005 EA Report)



Attachment B: Technically Preferred Alternative
(EA Amendment)



Attachment C: Proposed Mitigation Measures

(EA Amendment)

Effect	Proposed Mitigation Measure
Property Requirements	<ul style="list-style-type: none"> Secure required right-of-way through development process within areas of active development. Negotiated settlement with property owners in areas not under active development.
Noise	<ul style="list-style-type: none"> During construction of the Donald Cousens Parkway / Morningside Avenue Link, the contractor will abide by the municipal noise control by-laws. The Contractor will be required to keep idling of construction equipment to a minimum and to maintain equipment in good working order to reduce noise from construction activities.
Archaeology	<ul style="list-style-type: none"> Provisions will be provided in the contract on how to address any archaeological finds during construction. A Stage 2, 3 and 4 Archaeological Assessment would be carried out as required.
Built Heritage	<ul style="list-style-type: none"> Provisions will be made to minimize any disruption to cultural landscapes during construction.
Fisheries and Aquatic Resources	<ul style="list-style-type: none"> Crossing structures to be designed to maintain flows, fish passage, and prevent flooding/downstream erosion. Instream works will be avoided if possible. If not avoidable, timing constraints and mitigation approaches for fish habitat protection will be confirmed with Toronto and Region Conservation (TRCA) All near and in stream works will be managed to avoid introduction or disturbance and downstream transport of sediment during or following construction. Other measures-spill contingency plan, wet weather shutdowns, maintenance and materials storage away from watercourses. Sediment and erosion controls to be implemented and maintained prior to and throughout construction. Temporary vegetation protection fencing to be installed at all valley crossings. Vegetation removal will be restricted to only what is necessary to construct facilities. Areas disturbed by construction will be stabilized and re-planted as quickly as possible, using compatible native species.
Surface Water Quality and Quantity	<ul style="list-style-type: none"> Addressed by mitigation measures identified for fisheries and aquatic resources, in addition to the following storm water runoff management measures: <ul style="list-style-type: none"> Road drainage design to be an urban cross-section with runoff collected and treated in SWM facilities prior to release to watercourses where feasible. The drainage and SWM design will meet current Ministry of the Environment (MOE) requirements for water quality. Design considerations include meander belt width, floodplain width, slope and direction of flow. Number of piers will be minimized. Post-development peak flows to be controlled to pre-development levels (100 yr. storm) for Morningside Tributary. All ponds to be designed with clay liner to protect groundwater from potential salt contamination. Salt levels to be monitored and remedial measures taken when necessary (e.g. pond draining). Storm water pond outflows to be conveyed through cooling trenches to reduce thermal impacts on receiving watercourses.
Wetlands	<ul style="list-style-type: none"> Only one wetland area will be directly impacted (i.e. by vegetation removal) by the preferred alternative, at the Morningside Tributary between Steeles Avenue and the CPR – only vegetation directly affected by grading will be removed. Potential indirect impacts such as road contaminants and groundwater interception will be mitigated by storm water management and measures to maintain groundwater flow.
Vegetation	<ul style="list-style-type: none"> Vegetated areas bordering the right-of-way to be delineated and protected with temporary vegetation protection and silt fencing prior to and throughout construction. Only vegetation directly affected by grading will be removed. All disturbed areas will be re-vegetated following construction. Valley restoration plans will be developed at detailed design to address construction access, valley protection areas, erosion controls, slope stabilization and appropriate planting treatments or edge management – subject to further review at detailed design.
Wildlife and Wildlife Habitat	<ul style="list-style-type: none"> Includes measures identified for protection of vegetation and aquatic resources, in addition to the following: <ul style="list-style-type: none"> Measures for the protection of nesting migratory birds (Migratory Birds Convention Act and Regulations) to be implemented during construction in consultation with Environment Canada (e.g. scheduling of vegetation removal to avoid peak nesting periods, pre-construction nest surveys). Watercourse / valley crossing structures will permit terrestrial wildlife movement. The valley restoration plans will include design measures to facilitate continued terrestrial wildlife movement under bridge structures – by providing suitable ground surface conditions, avoiding extensive areas of large rip rap and providing stumps or other cover elements.
Groundwater Resources	<ul style="list-style-type: none"> Further geotechnical work will be undertaken at the valley crossings during detailed design. Based on that additional work, specific mitigation requirements for groundwater protection and well protection will be developed in consultation with TRCA and MOE staff. Any private wells that must be closed or removed to be decommissioned following MOE standards. Impact resolution strategy for any well interference claim to be developed at detailed design stage. A groundwater monitoring and testing program of all municipal and private wells within proximity of the preferred alternative will be undertaken to establish baseline (pre-construction) and post-construction groundwater conditions.

Attachment D: Technically Preferred Alternative –Cross-sections

(EA Amendment)

