

VIVANEXT ACTIVITIES – BUS RAPID TRANSIT RAPIDWAYS		
Work Program	Tasks	Activities during June, July and August 2008
Program Management	• Program and project management • Project controls and administration	• Provided senior management support to YRRTC. • Maintained and updated project work schedules. • Maintained cost control, accounting and document management functions. • Addressed contingency task requirements.
Transportation Planning	• Perform Transit Technology and Capacity Assessment • Prepare Network Implementation Options Report	• Continued to work with the Owner's Engineer to refine the network model and finalize the forecasts. • Prepared a comparative analysis of model results to support the draft Network Update document. • Developed the table of contents of the draft Network Implementation Options Report. • Prepared input for the Metrolinx Business Scenario Analysis Data matrix.
Communications	• Assist YRRTC with developing and implementing the Communications Plan • Provide support to media releases, website updates and newspaper articles • Develop presentations	• Filed application for the Official Mark for vivaNext on behalf of York Region. • Continued updates to the image library and centralized map/graph library. • Updated the communication plan and schedule and prepared materials required for upcoming communications activities incorporating elements of the overarching communications strategy and accommodating interface with other upcoming communications efforts. • Prepared updated illustrations of six-lane intersection layouts to reflect the most recent design elements for Highway 7 rapidway sections, including traffic signal operations, mid-block access, left and U-turns, boulevard details and cross-sections. • Prepared materials for and attended June public consultation sessions for the Yonge Subway Extension and H3 Rapidway work programs, including notices, posters, ads, website material, display panels and presentations. • Revised various communication materials including the vivaNext network map, vivaNext bookmarks, Frequently Asked Questions, vivaNext tri-fold brochure, logoed pens and t-shirts. • Developed new sections for vivayork.com to accommodate FAQ and provide additional detail in system passes sections, and uploaded North Yonge EA, Highway 7 and Yonge Subway Extension public meeting materials. • Finalized development of the "taking care of business" brochure targeted to local businesses/land owners, outlining the principles that will guide rapidway development and ensure local interests are protected during construction. • Commenced preparation for fall public consultation events.

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Communications (Cont'd)		- Finalized the development of a surveyor handout to be included with registered letters to owners, and prepared a presentation to the surveyors. - Finalized revisions/updates to the Viva style guide. - Monitored vivayork.com “contact us” e-mails on a daily basis.
Environmental Assessment Activities	- Complete the North Yonge Environmental Assessment - Provide advice regarding EA amendments and prepare documentation - Provide ongoing advice regarding EA issues	North Yonge EA Study - Evaluated design alternatives for the Ridge Road intersection and access to the Aurora cemetery. - Reviewed and refined the rapidway through Aurora, and developed updated plans showing the dedicated rapidway to Henderson Drive. - Revised the intersection spacing and station configurations on Green Lane to avoid impact on a creek crossing. - Prepared and arranged notifications and display material for public information centres in June and August. Attended the information centres to provide information, hear comments and answer questions. - Provided support and material for on-going consultation with elected officials and stakeholders, including distributing copies of presentation material and summary reports from public information centres to the Technical Advisory Committee, Toronto Region Conservation Authority and Municipal Clerks. - Provided design details, alignment plans and support as needed for ongoing consultation with property owners. - Continued assembly of documentation of alignment evaluation and optimization and identification of mitigation requirements. - Continued preparation of the draft EA report chapters and provided these to York Region and YRRTC for review and comment as completed. EA Amendments - Provided advice regarding the implications to the approved environmental assessment associated with the revised Highway 7 cross-section to include cycle lanes and enhanced medians. - Prepared the final draft of the Cedarland Alignment Modification Report (Town Centre Boulevard to Warden Avenue) for discussion with property owners and the Ministry of the Environment regarding an amendment of the environmental assessment.

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Engineering and Facilities Activities – Y2 and H3 segments	• Develop conceptual design alternatives for platforms, rapidways, terminals and stations • Prepare technical reports (design criteria, outline specifications, pavement reports, geotechnical reports, drainage reports, traffic/intelligent transportation systems). • Prepare preliminary engineering design drawings • Prepare Capital Cost Estimate and Risk Assessment • Identify utility relocations and property impacts	Design Criteria and Engineering Investigations • Initiated a design review of transitions between rapidway and mixed traffic sections. • Prepared and submitted the draft Pavement Reports. • Prepared and submitted the draft “Contamination Overview Study” reports. • Completed hydraulic review and updated drainage plans, commenced preparation of Drainage Design Reports. • Commenced development of an updated traffic model to complete operational and intersection analysis along the corridors. • Undertook a review of ITS components and provided recommendations. Utility Identification and Coordination • Held one-on-one meetings with PowerStream, Telus, Enbridge and Bell to discuss existing and planned utilities, and potential conflicts. • Updated base plans with new information provided by the utilities. • Planned the test pit program. Road and Rapidway Design – Y2 Segment • Prepared a high level overview of property impacts associated with the potential addition of cycle lanes along Yonge Street. • Continued to refine the Y2 corridor layout depicting intersection and mid-block station layouts, medians, and other design features. Developed recommendations regarding modifications to the design standards required in constrained areas. • Commenced a review of cross-street and driveway profiles to determine the required limits of work. • Continued the evaluation of grading limits and need for retaining walls. • Continued developing preliminary engineering and construction staging plans. Road and Rapidway Design – H3 Segment • Prepared alternative designs for four- and six-lane cross-sections plus rapidway for the section of Highway 7 between Apple Creek and Town Centre Boulevard in the Town of Markham. • Incorporated a median Vivastation at Valleysmeade Drive. • Prepared alternative designs for the Bayview Avenue Vivastation.

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Engineering and Facilities Activities – Y2 and H3 segments (Cont'd)		• Provided input to the development of the Cedarland Alignment Modification Report (Town Centre Boulevard to Warden Avenue) regarding an amendment of the environmental assessment. • In consultation with the Town of Markham, GO Transit and developers, prepared alternative concepts for an integrated transportation hub at Unionville GO Station. • Continued developing preliminary engineering and construction staging plans. Property Plans • Prepared and submitted initial property plans for both projects, and provided support to YRRTC, York Region Property Services and surveyors regarding the commencement of the property acquisition process for H3.
Engineering and Facilities Activities – H2 segment	• Complete operational planning and pre-design reviews to confirm rapidway configuration. • Develop options for integration with the Spadina Subway. • Develop conceptual design alternatives for rapidways and stations	• In consultation with the Owner's Engineer, prepared an updated Conceptual Design Work Plan and fee breakdown for YRRTC approval, to complete the procurement process. • Commenced the preparation of the baseline study schedule. • Completed aerial photography and topographic surveys. • Prepared base plans. • Initiated contact with utility companies to collect information on existing/planned conditions. • Commenced operational planning studies for rapidway sections on Highway 7, Jane Street and Centre Street.
Engineering and Facilities Activities – Y3-D1-G1 segment	• Develop conceptual design alternatives for rapidways and stations	• Completed aerial photography and topographic surveys in anticipation of the commencement of preliminary engineering. • In consultation with the Owner's Engineer, prepared a work plan and fee proposal for "D1 Rapidway (Davis Drive) Concept Design and Property Plans". • Prepared base plans and commenced layout drawings for D1.
Engineering and Facilities Activities – Markham Centre (Enterprise) segment	• Develop conceptual design alternatives for rapidway, platforms and station • Prepare preliminary engineering drawings	• Liaised with the Town of Markham and their consultants to coordinate rapidway design plans, including lighting and landscaping, with the Markham Civic Mall. • Commenced preparation of the draft Design Criteria/Design Basis Report. • Confirmed drainage design in association with adjacent development, and provided input to the Town of Markham for integration with the Civic Mall works. • Addressed utility relocation requirements with Bell, Enbridge, Consumers Gas and PowerStream.

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Engineering and Facilities Activities – Markham Centre (Enterprise) segment (Cont'd)	• Integrate proposed rapidway design work with ongoing Markham Civic Mall planning and design activities • Prepare Capital Cost Estimate and Risk Assessment • Identify utility relocations	• Reviewed operational and safety considerations regarding the “shared space” rapidway with municipal staff and YRT. • Refined canopy and station architectural and structural design alternatives, platform arrangements and cost estimates, and prepared presentation materials for workshops held on July 7 and 31. Received and analyzed bent eco-glass and glass materials and prices. Prepared materials for upcoming meetings on September 9 and 18. • Incorporated comments from a Peer Review on Vivastation design elements. • Prepared 30% drawings including structural framing, landscaping and electrical and updated cost breakdowns. Commenced preparation of specifications. • Completed traffic analysis to establish signal requirements, completed intersection designs, and prepared signal layouts, pavement markings and signage details. • Prepared and submitted ITS recommendations. • Finalized and submitted preliminary design drawings, and prepared construction staging drawings. • Prepared recommendations regarding contract phases and schedules. • Commenced preparation of capital cost estimates.
Engineering and Facilities Activities – Cornell Terminal	• Develop conceptual design alternatives for terminal, access and parking requirements • Prepare Block Plan and Site Plan documents • Prepare preliminary budget cost estimate • Evaluate alternative delivery strategies	• Reviewed site topography and the proposed street network, to determine the opportunities for lower level parking and site grading options. • Confirmed the number of bus bays, access requirements and passenger facilities for the terminal. • Prepared and refined a series of master plan options, incorporating TOD, terminal and commuter parking requirements, for review at workshops with the developer in June and July. • Commenced preliminary layout work for new curbside Vivastations at Galsworthy Road and Bur Oak Avenue, to be implemented along with the Cornell Terminal.
Engineering and Facilities Activities – Phase 1 Capital Enhancements	• Design of additional Phase 1 Vivastations • Improvements to existing facilities • Operational studies	Jefferson Sideroad Vivastation • Completed preliminary and final engineering, and submitted design plans to the Design Builder and Owner’s Engineer for pricing. • Provided construction support as required. Savage Road Vivastation • Prepared preliminary layout drawings to confirm the location of the northbound and

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Engineering and Facilities Activities – Phase 1 Capital Enhancements (Cont'd)		southbound platforms. - Completed field surveys and collection of utility information. - Commenced preliminary engineering. Transit Signal Priority Improvements - Completed internal testing of database tools to complete the analysis of the transit signal operations. Richmond Hill Centre Terminal Enclosed Waiting Area and Concession Feasibility Study - Finalized the feasibility study and presented a draft report to YRRTC.
Other Ongoing Studies	Respond to YRRTC as requested.	Park and Ride Strategy - Continued network demand modelling. - Prepared and submitted a memorandum on origin and destination results. - Advanced the early action plan for Cornell Terminal, including preparing a memo on park and ride considerations, refining site plan alternatives to address park and ride requirements, and participating in workshops with the developer. Integration of GTA Fare Transaction System (Presto) - Completed a feasibility study of alternatives to integrating the GTAFS (Presto smartcard) fare transaction processor into existing Phase 1 Vivastations. - Presented a draft report to YRRTC and YRT for review/comment. Phase 2 Vehicle Procurement - Provided technical support as required to YRRTC and YRT during the Request for Proposals for vehicle procurement. On Call Operational Reviews / Support - Provided analysis regarding vehicle forecasts, ridership forecasts, service planning, etc. as needed. Metrolinx AFP Support - Met with YRRTC to review the risk assessment for Metrolinx BRT Moderate

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Other Ongoing Studies (Cont'd)		Scenario capital costs. • Participated in a cost review of O&M costs and prepared supplementary information as follow-up. • Reconciled dedicated rapidway and mixed traffic corridor lengths on a segment basis and provided input as required for the creation of a corresponding map. • Provided other assistance as required by YRRTC.
2008 Construction Program		Richmond Hill Terminal Waiting Area Improvements • Completed installation of a heating system within the enclosed passenger waiting area. Richmond Hill Centre Pedestrian Bridge • Completed all construction work at the Richmond Hill Centre Pedestrian Bridge, except an improved pedestrian cross-walk from the bridge to the terminal to be completed in September 2008.