

VIVANEXT ACTIVITIES – BUS RAPID TRANSIT RAPIDWAYS		
Work Program	Tasks	Activities during October 2008
Program Management	• Program and project management • Project controls and administration	• Provided senior management support to YRRTC. • Maintained and updated project work schedules. • Prepared a detailed “project brief” for each rapidway segment including status, schedules, cost estimates and risks items, communication needs, and other issues requiring resolution, and reviewed these with YRRTC and the Owner’s Engineer (OE) at a workshop on October 29. • Maintained cost control, accounting and document management. • Addressed contingency task requirements. • Continued planning and preparatory work for the office relocation, including obtaining quotations for professional services and coordinating roles and responsibilities.
Transportation Planning	• Perform Transit Technology and Capacity Assessment • Prepare Network Implementation Options Report	• Met with YRRTC and the Owners Engineer and prepared memorandum towards reaching a consensus on the 2021 forecasts and modeling. • Continued to work on providing additional data for Metrolinx to define the contents of the Network Implementation Options Report.
Communications	• Assist YRRTC with developing and implementing the Communications Plan • Provide support to media releases, website updates and newspaper articles • Develop presentations	• Continued updating the Y2H3 schedule of communications activities in the context of the overall vivaNext communications plan and strategy. • Continued management and updates of the image, map and graph libraries. • Prepared all materials and posted the interactive presentation and materials from the October 2008 Yonge Street Subway public consultation session in Toronto on vivayork.com. • Designed and developed the vivaNext fall update brochure. • Continued development of collateral materials, website updates, additions and updates to questions and responses database, and update of presentation archive. • Continued work on the October and November Municipal Update presentations. • Continued preparations for H3 public consultation, scheduled for November 26, 2008. • Monitored vivayork.com “contact us” e-mails on a daily basis, responding as appropriate.

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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 • Submitted Final PCC #4 report to reflect the details of the August 11, 2008 open house. • Finalized effects assessment chapter (11). • Incorporated results of workshop with the Town of Newmarket into the Environmental Study Report (ESR). • Provided the Town of Newmarket with information required for their presentation to (their) Council on October 6, 2008. • Updated ESR incorporating York Region’s comments on the draft submission. Second draft was distributed to specific stakeholders for a 4 week review and comment period, commencing October 15, 2008. • Provided support, as required to York Region (Property Staff) and YRRTC staff as details were discussed with property owners along Davis Drive in Newmarket.
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 • Received and reviewed comments from the OE on the draft Pavement Reports and the draft Drainage Report for H3 (west section), and incorporated revisions. • Completed and submitted the draft Traffic Reports and Constructability/Construction Staging Reports. • Continued to assemble and prepare Design Criteria/Design Basis reports. • Laid out the canopy/station to scale (two dimensions) to demonstrate the orientation, circulation, relationship and scale of station elements. Utility Identification and Coordination • Continued to hold follow up meetings with each of the utilities (existing and planned) to discuss potential conflicts. • Updated the summary of identified conflicts, proposed utility development and relocation plans. • Continued preparation of the test pit program as information was received from each of the utilities.

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Engineering and Facilities Activities – Y2 and H3 segments (cont'd)		Road and Rapidway Design – Y2 Segment - Continued developing the PE drawings incorporating findings from technical investigations. - Reviewed drainage system modifications, based on initial Drainage report findings. - Prepared for meetings with the Town of Richmond Hill in November to review the PE drawings, and upcoming meetings with emergency service providers. Road and Rapidway Design – H3 Segment - Continued developing the PE drawings incorporating findings from technical investigations. - Reviewed recommendations for access to the Richmond Hill Centre Terminal, the Bayview Avenue Vivastation, and the Highway 404 constrained area with YRRTC and the OE. - Refined preliminary design for the rapidway from Town Centre Boulevard to Warden Avenue to reflect ongoing consultation with IBM. - Finalized PE drawings for the section immediately west of Warden Avenue and through the intersection for incorporation into the Enterprise construction package. - Refined concept drawings for the proposed mobility hub/terminal at the Unionville GO Station to evaluate the feasibility of an underground facility, in preparation for workshops with the Town of Markham, GO Transit and the developer's group. - Prepared for meetings with the Towns of Richmond Hill and Markham in November to review the PE drawings, and upcoming meetings with emergency service providers. - Coordinated with the Communications Team on preparations for the November 26 public information centre.

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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	• Confirmed design criteria/standards and commenced refinements to the rapidway alignment and cross-section to incorporate cycle lanes and enhanced medians. • Completed updating base mapping from information obtained from field editing. • Began adding storm water system and utility information to base drawings. • Continued operational planning studies for rapidway sections on Highway 7, Jane Street and Centre Street including implementing the simulation traffic model and confirming Viva service requirements for the 2021 and 2031 horizon years, estimating traffic volumes, and reviewing travel time changes and costs for 2021 and 2013.
Engineering and Facilities Activities – Y3-D1-G1 segment	• Develop conceptual design alternatives for rapidways and stations	• Updated design criteria/standards for the Davis Drive (D1) corridor in anticipation of commencing concept design once the North Yonge EA is completed. • Began collection of utility information along the D1 corridor.
Engineering and Facilities Activities – Markham Centre (Enterprise) segment	• Develop conceptual design alternatives for rapidway, platforms and station • Prepare preliminary engineering drawings • Integrate proposed rapidway design work with ongoing Markham Civic Mall planning and design activities • Prepare Capital Cost Estimate and Risk Assessment • Identify utility relocations	• Completed the traffic operational review to establish signalization requirements as part of Traffic Impact Analysis. • Finalized and submitted the draft Drainage Design Report, received comments from the OE, and commenced revisions. • Prepared and updated capital cost estimates for phased construction packages. • Conducted a risk review with YRRTC and the OE on the Phase 1 construction package and confirmed implementation schedules and the award process. • Finalized and issued the PE drawings for Phase 1 to KED and the OE for pricing, in accordance with the Procurement Plan issued by the OE. • Prepared the “Estimated Cost of Work” submission for YRRTC and OE review in anticipation of award of a design/build contract for Phase 1 construction. • Refined structural design, and canopy and station architectural design based on comments from workshops held in September, 2008. • Developed a proposal for environmental reviews and testing of Vivastation canopy design to address potential wind, snow and rain infiltration.

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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	• Continued to refine Master Plan layouts options based on comments from YRRTC and the Developer in anticipation of workshops in November 2008.
Engineering and Facilities Activities – Phase 1 Capital Enhancements	• Design of additional Phase 1 Vivastations • Improvements to existing facilities • Operational studies	Savage Road Vivastation • Continued with engineering investigations, utility relocation strategies and preliminary engineering drawings. Transit Signal Priority Improvements • Used database to generate output (graphs, tables, etc.) on TSP operation, based on transit management system, and traffic signal control system data. • Assessed the output to determine equipment faults. • Consolidated findings in a technical memorandum for YRRTC review and action.
Other Ongoing Studies	• Respond to YRRTC as requested.	Park and Ride Strategy • Assisted YRRTC in finalizing a Steering Committee report on the recent progress and findings of the Park & Ride study. • Undertook additional demand modelling incorporating price-sensitivity. • Commenced the site evaluation process, including identifying site opportunities and undertaking initial screening. • Reviewed and refined master plan options for the Cornell Terminal in the context of parking needs, as part of the Early Action Plan. Metrolinx AFP Support • Undertook additional demand modelling, as described above. • Prepared updated cost estimates incorporating new alternative design features under consideration at various locations. • Interpreted and provided advice on other data and outputs, as requested by YRRTC.

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2008 Construction Program		Richmond Hill Centre Pedestrian Bridge • Constructed an improved pedestrian cross-walk from the bridge to the terminal. • Resolved warranty issues. Jefferson Sideroad Vivastation • Completed the majority of civil and electrical work. Remaining work includes line painting, bollards, light standards. • Completed shelter and module / fin installation, including the installation of communications and electricity.