

**SIGNAL COST ESTIMATE**

UMA | AECOM

<b>ESTIMATE No:</b>	<b>UMA-TOR E073-033-01</b>	<b>Dated:</b>	<b>February 25 '05</b>
<b>Mile:</b>	<b>45.47</b>	<b>Subdivision:</b>	<b>Uxbridge</b>
<b>Location:</b>	<b>Castlemore Avenue</b>	<b>Province:</b>	<b>Ontario</b>
<b>UMA WO Number:</b>		<b>Project Number:</b>	

**Project Description:****ESTIMATED COST FOR RAILWAY PART OF WORK****RAILWAY MATERIAL**

Insulated Joints.		\$9,476
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**RAILWAY LABOUR**

Labour Signals		\$781
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Labour Install Insulated Joints.		\$402
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<b>LABOUR OVERHEADS</b>	117.0%	\$1,384
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Labour Flagging (Flat Rate)		\$6,800
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**RAILWAY OTHER**

Living Allowance		\$ 434
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Equipment		\$2,750
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Contract Overheads		\$3,204
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<b>TOTAL ESTIMATED RAILWAY COST</b>		<b>\$25,231</b>
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**TENDERED CONTRACT TO INCLUDE ALL MATERIAL AND LABOUR WITH FOLLOWING GUIDELINES****Description**

Gate Mechanisms c/w barrier arms &amp; lights.

Bells c/w mounting mechanism.

Battery cells &amp; chargers/rectifiers

Grade Crossing Predictor

Housings

Foundations &amp; Cribbing

Track connections

Wire &amp; Cable

Highway Crossing Data Recorder

Fill for Gates &amp; Housing

Complete Circuit Design &amp; Plans (Hard Copy &amp; CD)

Complete Installation

Test and place in service

<b>CONTRACT COST FOR INSTALLATION OF AWD'S</b>		\$162,184
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<b>CONTRACT CONTINGENCIES</b>	10.0%	\$16,218
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<b>UTILITIES</b> (Hydro Service)		\$5,000
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<b>TOTAL ESTIMATED SIGNAL CONTRACTOR COST</b>		<b>\$183,402</b>
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<b>CONSULTING FEES</b>		<b>\$0</b>
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<b>TOTAL ESTIMATED COST FOR PROJECT</b>		<b>\$208,633</b>
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NOTES: RE THE ESTIMATE

*All applicable taxes, except GST, and service costs for locates and permits are included in the tender.*

*All Equipment to meet or better AREMA Standards. All construction work to be done to AREMA or CN/CP Rail Standards, whichever is the most restrictive. All Engineering work, including design and "in service testing", is to be done within the guidelines of the Railway Safety Act Section 11.*

Parties Subject to G.S.T. will have 7% GST Applied to Their Costs

Canadian Transportation Agency Overhead Rates Used for the Railway portion of the Estimate

Billing Will Be At Actual Costs Plus Overheads

Estimate Does Not Include Railway Flagging Required for Road Construction.

Estimate Does Not Include Relocation of Utilities

Estimate is based on work during frost free ground conditions

Estimate is subject to revision.

Estimate Revision 0