



**Municipality of Brighton
Committee of the Whole
February 8, 2010**

RE: Ontario Street Pedestrian Crossing Update

Recommendation:

That the Committee recommends to Council that G.D. Jewell Engineering Inc. be authorized to re-design and re-tender the Ontario Street Pedestrian Crossing as detailed in their letter dated January 14, 2010.

Background/Purpose:

At the Committee of the Whole meeting on January 11th, 2010, staff provided a brief verbal report on discussions held with CN, CP and our consultant during a site meeting on December 1st, 2009. The purpose of that meeting was to re-visit the objective of the project and review the possible alternatives for the pedestrian crossing. At the Railway Advisory Committee meeting on January 18th, this item was referred to the next Committee of the Whole meeting.

Discussion:

At the meeting, the following items were discussed;

1. Only one tender was submitted and the high cost was partly due to the deep foundations needed for the culvert extension beside the CP line. CP had requested that his structure be designed for future rail traffic.
2. Moving the sidewalk to the west side would eliminate the need for a culvert extension at the CP line but create the need for culvert extensions on the north side of the CN line. There was also significant sightline concerns created by the signal bungalows and CN would not approve of this option.
3. The idea of installing new culverts by directional drilling under the CP track and thereby eliminating the existing CP culvert was discussed but because of the wet soil conditions and location of fiber optics this was considered more costly than the original design.
4. The concept of moving the walkway to the east side of the drainage ditch and further away from the road was discussed and property acquisition would likely be required but also the walkway would then have to be considered as a separate crossing requiring separate pedestrian signals, so in the end the cost would be the same and there would be ongoing maintenance costs.
5. The only other viable solution that everyone agreed could be investigated and save time and money was to construct steel grate platforms as part of the walkway instead of the concrete culvert extensions. The platforms would attach to the existing concrete headwalls of the CP culvert and extend 6 to 9 metres from the culvert back to original ground beside the road where the conventional sidewalk construction would start. The steel platforms would be have to be designed to withstand the weight of our sidewalk maintainer and also a short section on either side of the CP track would have to be removable to enable CP to maintain the rail ties and track bed. Because the platforms would be prefabricated this design would also reduce the time required to work within the controlled rail corridor. Following the meeting, Jewell Engineering provided a letter which estimated a cost saving of \$200,000 for this option.

Attachment: Letter for Jewel Engineering dated January 14, 2010

**Jim Phillips, Director
Public Works & Environmental Services**

G.D. Jewell
ENGINEERING Inc.

www.jewelleng.ca

January 14, 2010

Municipality of Brighton,
67 Sharp Road,
Box 250,
Brighton, ON
K0K 1H0

Attn.: Mr. J. Phillips, P. Eng.,
Director of Public Works
and Environmental Services

RE: Municipality of Brighton
Ontario Street Pedestrian Crossing
Our File 25-2016

Dear Sir:

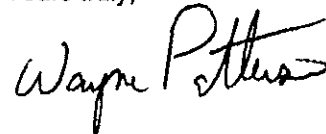
To update our letter of December 9th, 2009, the cost reduction in the construction was based on constructing a steel grate system to span the sidewalk over the existing concrete culvert in the CP rail line.

We estimate the reduction in construction costs will be approximately \$200,000.00 from the bid received from Clearwater Construction.

The engineering fees to complete the design will be \$12,500.00 plus \$1,600.00 for disbursements (preparation of tender documents). The design can be completed by February 22, 2010 and tendered by March 1, 2010. These dates are contingent upon CN and CP approvals.

Should you have any questions please contact me.

Yours truly,



Wayne Patterson, CET
G.D. Jewell Engineering Inc.

WP/wp

PEDESTRIAN PHILLIPS PROPOSAL 2009 UPDATE



Professional Engineers
Ontario

Authorized by the Association of Professional Engineers
of Ontario to offer professional engineering services.



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Ontario

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