Public Works Committee  
REPORT 08-018  
9:30 a.m.  
Monday, November 17, 2008  
Hamilton Convention Centre  
One Summer’s Lane  
Albion Rooms A, B and C

Present:  
Chair R. Powers  
Vice Chair C. Collins  
Councillors B. Bratina, L. Ferguson, T. Jackson,  
M. McCarthy, S. Merulla, D. Mitchell

Also Present:  
Councillor M. Pearson  
S. Stewart – General Manager, Public Works  
G. Davis – Sr. Director, Capital Planning and  
Implementation  
B. Shynal – Director, Operations and Maintenance  
D. Hull – Director, Transit Operations  
J. Mater – Director, Energy, Fleet and Facilities  
B. Goodger – Director, Waste Management  
J. Harnum – Sr. Director, Water and Wastewater  
C. Biggs – Legislative Assistant, City Clerk’s

THE PUBLIC WORKS COMMITTEE PRESENTS REPORT 08-018 AND RESPECTFULLY RECOMMENDS:

1. Intersection Control List (PW08001(h)) (Wards 2, 7, 8 and 12) (Item 5.2)

That the appropriate By-law to provide traffic control as follows, be passed and enacted:

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Street 1</th>
<th>Street 2</th>
<th>Stop Direction</th>
<th>Class</th>
<th>Location / Comments / Petition</th>
<th>Ward</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>East 4th Street</td>
<td>Empress Avenue</td>
<td>N/C</td>
<td>N/B Stop</td>
<td>E. of Upper James, N. of Fennell</td>
<td>7</td>
</tr>
<tr>
<td>(b)</td>
<td>Pearl St. N.</td>
<td>Peter St.</td>
<td>E/B &amp; W/B</td>
<td>N/B &amp; S/B</td>
<td>E. of Locke, S. Of York</td>
<td>2</td>
</tr>
<tr>
<td>(c)</td>
<td>Duncairn Cres.</td>
<td>Heatherdale Pl.</td>
<td>N/C</td>
<td>N/B</td>
<td>E. of Garth, N. of Stone Church</td>
<td>8</td>
</tr>
<tr>
<td>(d)</td>
<td>St. Margaret’s Rd.</td>
<td>Cameron Dr.</td>
<td>Yield</td>
<td>EB</td>
<td>S. of Wilson St, E. of Fiddler’s Green</td>
<td>12</td>
</tr>
</tbody>
</table>

Council – November 26, 2008
2. Creation of Telecommunication Municipal Access Agreement with Atria Networks LP (PW08127/LS08011) (City Wide) (Item 5.3)

(a) That the City of Hamilton enter into a Municipal Access Agreement with Atria Networks LP for the purpose of allowing Atria Networks LP access to the City’s Public Highways for a term of five years, with the option to renew for up to two consecutive terms of five years each;

(b) That the Mayor and City Clerk be authorized and directed to execute the necessary documents, all documents being in a form satisfactory to the City Solicitor;

(c) That staff report back to the Public Works Committee at the completion of the first five-year term to advise on the renewal of the Agreement.

3. City of Hamilton/Ministry of Transportation 2008 Ontario Bus Replacement (OBRP) Funding Requirement (PW08129) (City Wide) (Item 5.4)

(a) That in compliance with the revised 2008 Ministry of Transportation Ontario Bus Replacement Program (OBRP) eligibility requirements for the replacement of the Conventional Transit fleet, the purchase of 17 replacement conventional transit buses at a gross cost of $7,038,119, be confirmed;

(b) That the Mayor and City Clerk be authorized and directed to execute the necessary documents, in a form satisfactory to the City Solicitor, to give effect to sub-section (a);

(c) That the City of Hamilton, Corporate Services Department set up an OBRP capital reserve as per the 2008 OBRP guidelines;

(d) That certified copies of this resolution and the Confirming By-law from the November 26, 2008 meeting of City Council be forwarded to the Ministry of Transportation.
4. **Cold Patch Product Standardization and Sole Source Approval (PW08137) (City Wide) (Item 5.5)**

   (a) That the purchase of cold mix asphalt material be standardized and single sourced to Lafarge Canada Inc. for their QPR product, for the City of Hamilton’s Public Works, Operations & Maintenance and Water & Wastewater Divisions, for 2008 through to 2012;

   (b) That Public Works Department and the Manager of Purchasing be authorized to negotiate pricing for the supply of QPR cold mix asphalt material from Lafarge Canada Inc.

5. **Urbanization of Rural Cross Sections within Urban Boundaries (PW08120) (City Wide) (Item 7.1)**

   (a) That the Urbanization of Rural Cross Sections within Urban Boundaries Strategic methodology as defined within Report PW08120 and attached hereto as Appendix “A”, be adopted;

   (b) That the roadways receiving a grade A classification under the Urbanization of Rural Cross Sections within Urban Boundaries Strategic methodology as identified as Schedule A to Report PW08120 be considered for future urbanization through the Capital Budget process;

   (c) That the roadways receiving a grade B and C classification under the Urbanization of Rural Cross Sections within Urban Boundaries Strategic methodology as identified as Schedule B and C respectively, to Report PW08120 maintain a rural cross section;

   (d) That the roadways under the Urbanization of Rural Cross Sections within Urban Boundaries Strategic methodology be further reviewed with the staging of development and prioritized through the Capital Budget process.

6. **Water and Wastewater Master Plan – Procurement Approach (PW08131/FCS08107) (City Wide) (Item 8.3)**

   (a) That the General Manager, Public Works be authorized and directed to procure and award the Consulting Engineering Services for the Woodward Avenue Wastewater Treatment Plant Expansion through the Request for Proposal Value Added (RFPVA) methodology attached hereto as Appendix “B”;
(b) That the General Manager, Public Works be authorized and directed, on behalf of the City of Hamilton, to execute the contract and all necessary ancillary documents resulting from subsection (a), in a form satisfactory to the City Solicitor;

(c) That an assignment provision be built into the Request for Proposal to potentially assign to a consortium at a future date, if required.

7. **Multi-Residential Green Cart Program Implementation (PW08106(a)) (City Wide) (Public Works Committee Outstanding Business List) (Item 8.4)**

(a) That the Waste Management Division’s evening streetscape litter collection program be rescheduled to daytime operations to support the multi-residential green cart program and to avoid the requirement for two (2) additional FTE Waste Collection Operator positions identified in Report PW08106;

(b) That the Waste Management Division budget savings of $10,000 for the multi-residential green cart program pending the approval of recommendation (a) be considered as part of the 2009 Operating Budget process;

(c) That the item relating to the Multi-Residential Green Cart Program Implementation be removed from the Public Works Committee Outstanding Business List.

8. **Multi-Use Path Safety Design Guidelines at Roadway Crossings (PW08132) (City Wide) (Public Works Outstanding Business List) (Item 8.5)**

(a) That the Multi-use Path Safety Design Guidelines, attached hereto as Appendix “C”, for all unsignalized locations in the City of Hamilton where multi-use paths cross roadways, be approved;

(b) That staff upgrade existing multi-use path/roadway crossings where required, to comply with the Multi-use Path Safety Design Guidelines, with funding from the Capital Account Annual Bicycle Route Improvements Program 4030817124;

(c) That external agencies that manage multi-use paths within the City Of Hamilton be advised of the Multi-use Path Safety Design Guidelines;

(d) That the item pertaining to “Pavement Markings and related signage in upper rural Stoney Creek” be removed from the Public Works Committee Outstanding Business List.
FOR THE INFORMATION OF COUNCIL:

A. CEREMONIAL ACTIVITIES

(i) Award from the Solid Waste Management Association of North America (SWANA) for Excellence in Marketing and Special Waste Categories

Art Mercer, Ontario Chapter representative on the Solid Waste Association of North America (SWANA) International Board, presented two Gold awards to the City of Hamilton for Excellence in the categories of Marketing for the Gold Box Program and Special Waste for the Community Recycling Centres. The awards were presented to Councillor Russ Powers, Scott Stewart, Beth Goodger, Pat Parker and Craig Murdoch.

(ii) Award from the Association of Municipalities of Ontario (AMO) for creation of Hamilton’s Community Recycling Centres

Councillor Powers presented a Certificate of Merit from the Association of Municipalities of Ontario (AMO) to Scott Stewart, Beth Goodger and Craig Murdoch for the City’s Central Composting Facility as an Infrastructure Project funded by the Federal Gas Tax funding.

(a) CHANGES TO THE AGENDA (Item 1)

The Clerk reported that there were no changes to the agenda. On a motion, the agenda was approved, as presented.

(b) DECLARATIONS OF INTEREST (Item 2)

None.

(c) APPROVAL OF MINUTES (Item 3)

On a motion, the Minutes of the November 3, 2008 meeting of the Public Works Committee were received, as presented.

(d) DELEGATION REQUESTS (Item 4)

(i) Request to Appear before the Committee from Michael Carey respecting Main Street North closure in Waterdown

On a motion, the request of Michael Carey to appear before the Committee, was approved.

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(e) **MINUTES OF VARIOUS SUB-COMMITTEES (Item 5.2)**

On a motion, the following Minutes were received:


(b) Solid Waste Management Master Plan Steering Committee

   (i) September 10, 2008

(f) **INTERSECTION CONTROL LIST (PW08001(h)) (Item 5.2)**

On a motion, the following amendment to add to the intersection control list was put forward and subsequently approved:

(a) That an all-way stop be implemented at the intersection of Bolzano Drive and Erika Crescent, Hamilton

(b) That an appropriate amendment to City of Hamilton Traffic By-law be passed and enacted.

(g) **STAFF PRESENTATIONS (Item 7)**

(i) **Urbanization of Rural Cross Sections within Urban Boundaries (PW08120) (City Wide) (Item 7.1)**

Gerry Davis provided the Committee with a power point presentation which outlined:

- Right of Way Cross Sectional Summary
- Classification of Roads
- Factors Considered through Spatial Analysis
- Scoring Criteria
- Recommended – Alternative 1
- Next Steps
- Road Pressures and Challenges
- Considerations

Councillor Mitchell expressed concerns with the fact that the study criteria was taken from a number of different cities and that rather, the criteria be refined to include additional criteria unique to the City.

Councillor Pearson suggested that Councillors be included in meetings to provide their input.
A copy of the presentation has been retained in the Office of the City Clerk for the public record.

(ii) Transfer Station and Disposal Operations Request for Proposals C11-40-08 – Selection of Successful Proponents (PW08123/FCS08101) (City Wide) (Item 8.1)

On a motion, the Committee moved In Camera at 10:15 a.m. for the purpose of receiving advice that is subject to solicitor-client privilege, including communications necessary for that purpose.

On a motion, the Committee reconvened in Open Session at 11:20 a.m.

On a motion, Report PW08123/FCS08101 was tabled to the next appropriate meeting of the Public Works Committee to allow staff to carry out the direction of the Committee provided during the In Camera session.

(h) POULETTE STREET/PEARL STREET/RAY STREET PEDESTRIAN CROSSINGS OF THE CP RAIL CORRIDOR MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT (PW08136) (WARD 1) (Item 8.2)

On a motion, Report PW08136 respecting Poulette Street/Pearl Street/Ray Street Pedestrian Crossings of the CP Rail Corridor Municipal Class Environmental Assessment, was deferred to the December 1, 2008 meeting of the Public Works Committee.

(i) MULTI-RESIDENTIAL GREEN CART PROGRAM IMPLEMENTATION (PW08106(a)) (CITY WIDE) (PUBLIC WORKS COMMITTEE OUTSTANDING BUSINESS LIST) (Item 8.4)

On a motion, Information (i) of Public Works Committee Report 08-014 which read as follows, was lifted from the table:

(c) That two (2) permanent full time equivalent (FTE) Waste Collection Operator positions be added to the Waste Management Division staff complement as of March 2009, in the amount of $141,500, including wages and benefits, to support the multi-residential green cart program;

(f) That funding for the positions identified in recommendation (c) of Report PW08106 be considered as part of the 2009 Operating Budget process.

The motion to lift was carried.

On a motion, the above-noted sub-sections were defeated.
(j) GENERAL INFORMATION/OTHER BUSINESS (Item 11)

(i) Public Works Committee Outstanding Business List

On a motion, the Outstanding Business List was amended as follows:

(aa) Specialized Transit Fleet Tender  
Due Date: December 1, 2008  
Revised Due Date: March 23, 2009

(bb) Biosolids Management Plan  
Due Date: December 1, 2008  
Revised Due Date: March 2, 2009

(cc) Endorsement of a Sports Field Management Strategy  
Due Date: November 17, 2008  
Revised Due Date: March 23, 2009

(dd) Recommendations from the Waterfront Revitalization Task force re: West Harbour Waterfront Recreation Master Plan  
Due Date: December 1, 2008  
Revised Due Date: January 19, 2009

(ee) Recommendations from the Chamber of Commerce re: Public Transit Policy  
Due Date: November 17, 2008  
Revised Due Date: March 2, 2009

(ff) Opportunities for Reduction – Public Works Program  
Due Date: November 17, 2008  
Revised Due Date: March 2, 2009

(gg) Streetscape Cigarette Butt Receptacle Program  
Due Date: November 17, 2008  
Revised Due Date: January 19, 2009

(hh) Control Measures to Stop Dust fall outs resulting from Unpaved Parking Lots and Roads on Industrial Properties  
Due Date: November 17, 2008  
Revised Due Date: March 23, 2009
There being no further business, the Committee adjourned at 11:40 a.m.

Respectfully submitted

Councillor R. Powers, Chair
Public Works Committee

Carolyn Biggs
Legislative Assistant
November 17, 2008
URBANIZATION OF RURAL CROSS SECTIONS WITHIN URBAN GOUNDARIES STRATEGIC METHODOLOGY

Criteria Scoring
Within the decision model, each candidate section is evaluated and a score between zero and one is assigned for each of the 14 factors. The scores for each factor are multiplied by the weightings specified on the Input tab for the applicable factor. The sum of the 14 weighted scores provides the total score for each road section, as outlined in Table 3. This table provides an example of the results for one candidate road section for each of the 14 criteria being evaluated. The score for each factor is multiplied by the applicable weighting factor and the sum of the weighted scores provides a final score of 40.04 for this road section. All of the candidate road sections are analyzed in this manner.

Table 3: Example of Scoring for a Road Section

<table>
<thead>
<tr>
<th>Factor</th>
<th>Score</th>
<th>Weighting Factor</th>
<th>X by Weighting Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traffic</td>
<td>0.56</td>
<td>8</td>
<td>4.48</td>
</tr>
<tr>
<td>Road Condition</td>
<td>0.61</td>
<td>6</td>
<td>3.66</td>
</tr>
<tr>
<td>Curbs Present?</td>
<td>0.12</td>
<td>5</td>
<td>0.6</td>
</tr>
<tr>
<td>Sewers Present?</td>
<td>1.0</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Adjacent Land Use</td>
<td>0.2</td>
<td>7</td>
<td>1.4</td>
</tr>
<tr>
<td>Bus Route</td>
<td>0.0</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>Population Density</td>
<td>0.4</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>Proximity to Arenas</td>
<td>0.1</td>
<td>13</td>
<td>1.3</td>
</tr>
<tr>
<td>Proximity to Hospital</td>
<td>0.0</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>Proximity to Elementary School</td>
<td>0.0</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>Proximity to Middle School</td>
<td>0.0</td>
<td>24</td>
<td>0</td>
</tr>
<tr>
<td>Proximity to Secondary School</td>
<td>0.8</td>
<td>20</td>
<td>16</td>
</tr>
<tr>
<td>Proximity to Other School</td>
<td>0.0</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Proximity to Existing Sidewalks</td>
<td>0.4</td>
<td>9</td>
<td>3.6</td>
</tr>
</tbody>
</table>

TOTAL SCORE FOR ROAD SEGMENT: 40.04

A candidate road section that has an assigned grade of A (for Alternative One) is recommended for urbanization. In order to calculate a grade of A, the five most significant criteria were selected and their scores were summed. The criteria used for this calculation are:

- Proximity to elementary schools
- Proximity to middle schools
- Proximity to high schools
- Proximity to other schools
- Bus Route
The maximum scores for each of these five criteria were added together to form a maximum possible overall score and then the cut off was set to four-fifths of this value.

For example, the total scores for the five criteria, $30 + 24 + 20 + 20 + 18 = 112$

A candidate that received a total score (from these five criteria) of four-fifths of 112 ($4/5 \times 112 \approx 90$) should be assigned a grade of A. The cut off value for grade A was determined by ensuring that each of these sections had a total score (from all criteria) greater than the minimum score required to receive a grade of A. Therefore, segments with a grade of A either contain four out of these five criteria or have equivalent demand for urbanization based on the other available criteria.

The cut-off point between grades B and C was determined by considering those candidates that have little demand or do not require urbanization. Those candidates with scores of less than 30 from the five selected criteria (the minimum score awarded if within the minimum distance of an elementary school) were considered for grade C. Any candidate with a score of 30 or higher when analyzing the five significant criteria, the equivalent of being within the minimum distance of an elementary school, would receive a minimum grade of B.
REQUEST FOR PROPOSAL VALUE ADDED (RFPVA) METHODOLOGY

Table 4 of Report PW08131/FCS08107 summarizes the scoring process utilizing the recommended RFPVA process. Utilizing this approach and assuming the same Proponent submission scenario as Table 3, Proponent 2 would be awarded the contract.

Table 4: Procurement Example - Value Added Process

<table>
<thead>
<tr>
<th>Proponent</th>
<th>Part 1 – Technical Score</th>
<th>Part 2 – Financial Score</th>
<th>Total Score</th>
<th>Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>770</td>
<td>236</td>
<td>1006</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>890</td>
<td>261</td>
<td>1151</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>650</td>
<td>300</td>
<td>950</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>400</td>
<td>Unopened</td>
<td>n/a</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Note: A Minimum Score of 700 is required in Part 1 in order to proceed to subsequent phases of the evaluation process. Those not achieving the minimum score will fail and their financials will not be opened.

In summary, the unique aspects of an RFP process must be recognized in that as opposed to Tenders which generally involve the City issuing detailed specifications for pricing, a typical RFP process is much less detailed in specifications and puts forward the overall project objectives and desired outcomes through a Terms of Reference (ToR) document. Proponents then respond with a submission including, their proposed team of professionals, approach and methodology of how they envision the project being undertaken complete with schedule and effort for each identified task. In this case, a number of submissions can meet the general objective and deliverables of the project. However, what is not realized in a low bid process is the value added which the other submissions may offer. The following are examples of what a value added procurement process can offer:

- Improved Schedule
- Additional Quality Assurance and Quality (QA/QC) Control Measures
- More experienced Project Team
- Emphasises effort at critical task
- Improved contract specifications, drawings and tender documents resulting in lower tender cost and change orders during construction phases

As such, the recommendation for awarding the Consulting Engineering Assignment for the Woodward Avenue Wastewater Treatment Plant Expansion through a Request for Proposal Value Added (RFPVA) process as outlined in this Report is being brought forward for Council approval.
MULTI-USE PATH SAFETY DESIGN GUIDELINES

Pathway Signage
-all multi-use paths shall have a standard stop sign (60cm x 60cm) at the approach to roadway crossings
-all multi-use paths shall have a standard sign (RB-89) prohibiting autos and motorcycles near access or crossing points with public roadways

Pathway Bollards
-all multi-use paths shall have bollards where they intersect roadways. These bollards will be designed to prohibit motor vehicle access (gaps of 1.8m to 2.0m), and special provision will be made for authorized vehicles only (one drop-down bollard).

Roadway Signage
-on all roadways with a posted speed limit of 70km/hr or higher and on the approaches to all freeway and controlled-access highway ramps signing shall be erected to notify drivers of a multi-use path crossing ahead
-on roadways with a posted speed limit of less than 70km/hr, signage to notify drivers of the multi-use path crossing will only be installed if sightline requirements are not met or if the roadway is a truck route.

Roadway Pavement Markings
-There shall be no painting of the roadway to mark trail crossings.