

Subject: Broadway Brick Replacement Project Update

Department: Infrastructure Services

Division: Transportation and Development

Report #: INS-2021-052

Meeting Date: 2021-09-27

Recommendations

That report INS-2021-052, Broadway Brick Replacement Project Update be received;

And that Staff be directed to include for Council's consideration a project in the 2022 capital budget for the allowance of the ancillary street furniture items as set out in the following report.

Background

At its meeting on June 28th, 2021, Council received Report No. INS-2021-045, Broadway Brick Replacement Project. At that meeting Council directed Staff to take the steps necessary to proceed with the construction and replacement of the Broadway bricks in the fall of 2022. As part of the resolution (2021-054) Council also directed Staff to report back on a number of ancillary items relating to the replacement of the sidewalks and bricks on Broadway which included the following; tree canopy, bike racks, waste receptacles, electrical outlets, public seating and water filling stations. The following report updates Council on the matter of the ancillary street furniture including their associated costs. It should be noted that in reviewing the additional boulevard items, Staff sought input from the Orangeville Business Improvement Association (OBIA) and Orangeville Hydro.

Analysis

The central portion of Broadway was fully reconstructed in 1991 which included all underground services and the reconstruction of the roadway. Included with this work was the design and surface treatments for the sidewalks and boulevard areas. The sidewalks and boulevards have not been replaced since 1991 and have reached their surface life and are needing to be replaced. As noted, Council has directed Staff to construct a new 2.2-metre-wide concrete sidewalk adjacent to the buildings and to place

paving stones in the boulevard areas which house the streetlights, trees and ancillary street furniture. While replacing the sidewalk and paving stones remains as the primary focus of the project, there are a number of ancillary items that Council has requested staff to report on and to provide a cost. The following outlines the ancillary items.

Street Trees – As part of the 1991 Broadway reconstruction project, 88 trees were planted. Of those only 61 remain. Due to current conditions 12 of the 61 need to be removed to facilitate the construction of the sidewalk and boulevard. This would leave 49 street trees. While it is desirable to replace all the trees that have been removed over the years including those trees needing to be removed to facilitate the proposed construction, there are challenges to bringing the tree canopy back to 1991 levels. It has been found that a replanting programme targeting a total of 75 trees is more realistic. Infrastructure, provision of areas for boulevard patios and winter maintenance impact the ability to re-establish the original 88 tree count. Accordingly, it is proposed to replant as part of the Broadway Brick replacement project the 12 trees removed to facilitate the work and to replace 14 of the trees lost over time for a total addition of 26 new trees. Tree planting is estimated to cost approximately \$6000 per tree. A significant portion of this cost is to construction of tree “pits”. These are intended to enhance the trees’ ability to survive the urban planting environment as well as prevent heaving of the boulevard bricks in the future. Therefore, the total estimated cost for planting twenty-six new trees is \$156,000.

Bicycle Racks – There are 23 old parking metre posts that have been converted with bike rings to facilitate parking and securing bicycles in the downtown core. It is intended that the old parking metre posts be removed as part of the Broadway Brick Replacement Project. As such, it is proposed to install five multi unit bicycle racks. Each rack can park up to five bikes. General locations for these racks would be near the Post Office, CIBC Bank, Library, Town Hall and the municipal parking lot near 82 Broadway. A typical bicycle rack is shown on Attachment No. 1. Each individual bike rack costs approximately \$700 to supply and install for an overall cost of \$3,500.

Waste Receptacles – There are a number of different waste receptacles downtown. Eight (8) are concrete which present challenges for staff to empty and should be replaced. There are eleven (11) pairs of plastic waste/recycle bins, four (4) standalone waste bins and four (4) standalone recycle bins. In discussions with the OBIA and Operation Staff, it is desirable to standardize the waste receptable units and their appearance. Accordingly, it is proposed to replace the existing concrete garbage receptacles with eight new cast aluminum waste and recycling units. Each unit is approximately \$1,200 for a total cost of \$9,600. Sample waste receptacles are shown on Attachment No. 1, Proposed Street Furniture.

Electrical Outlets – provision for additional electrical outlets was determined through discussions with the OBIA and Orangeville Hydro. The following key sites were identified for upgrading, John Street planter, Mill Street planter, 199 Broadway, Sport-Medic Clinic by 100 Broadway and at the TD Bank Garden – 105 Broadway. The outlets will be designed to support the power requirements for a variety of street and

community events, like Blues and Jazz. The electrical outlets will be fully protected and lockable for security. Upgrading the noted five (5) locations is estimated at \$50,000. Image No.2 on Attachment 1 shows a typical electrical outlet.

Public Seating/Benches – Similar to other street furniture in the downtown core, there is a variety of types and style of benches along Broadway. There are nine (9) benches with no backs, four (4) metal benches with backs, some on concrete pads and others have been constructed with no foundations. It is intended that the nine existing benches with no backs be retained. To standardize the public seating furniture and to ensure all benches are meeting AODA standards, it is proposed to install nine new benches on concrete pads. To supply and place a new bench is approximately \$2,000 per bench. Total estimated cost is \$18,000. Image No. 5 on Attachment No. 1 shows a typical public seating bench.

Water Filling Stations – In the past three water fountains were located on Broadway. Due to challenges with maintenance, vandalism, age/serviceability the fountains were removed. Staff have reviewed the potential for installing two water filling stations on Broadway, near the Library and near the Town Hall. Staff research has shown that to supply, install and connect a water filling station to the Town’s water distribution system would be in the order of \$15,000. Total cost would be \$30,000. A sample frost free water filling station is shown as Image 3 on Attachment No. 1 to this report.

In summary the following details the additional costs for the Broadway Brick Replacement Project for ancillary street furniture.

i)	Street trees (28 new trees)	\$ 156,000
ii)	Bicycle Racks (5 sites)	\$ 3,500
iii)	Waste Receptacles (8 new bins)	\$ 9,600
iv)	Electrical Outlet upgrades (5 sites)	\$ 50,000
v)	Public Seating/Benches (9 benches)	\$ 18,000
vi)	Water Filling Stations (2 sites)	\$ 30,000
vii)	Contingencies and Engineering	\$ 50,000
	Total Estimated Additional Costs:	\$ 317,100

The above costs were not included in the original budget estimate for the Broadway Brick Replacement project. As such, staff propose to bring a capital project detailing these costs as part of the 2022 Capital Budget for Council’s consideration.

Strategic Alignment

Orangeville Forward – Strategic Plan

Priority Area: Sustainable Infrastructure

Objective: Provide Systems that keep people moving

Sustainable Neighbourhood Action Plan

Theme: Transportation System

Strategy: Promote walking and biking by increasing connectivity and safety of active transportation infrastructure

Notice Provisions

In accordance with the requirements of the Environmental Assessment Act public consultation was undertaken. A public Information Centre was held on May 12, 2021, and a Public Meeting was held on June 7, 2021. Public comments were also received throughout the engineering design stages through the Town's Capital Project Dashboard Webpage. Staff have continued to dialogue with the OBIA as part of the review of the ancillary street furniture evaluation.

Financial Impact

The approved 2020 Capital Budget includes an allowance of \$900,000 for the replacement of the Broadway bricks and concrete sidewalks. Accordingly, if the ancillary street furniture items are to be added as part of the Project, the Capital Budget allocation will be exceeded.

Staff recommend that a capital project be brought forward for Council's consideration as part of the 2022 Budget to cover these additional costs. It should also be noted that in discussions with the OBIA regarding the ancillary items, the OBIA identified their budget has made an allowance to contribute financially to a number of the items above. Therefore, as part of bringing forward the 2022 capital project, allowance in the budgeting for this source of funding will be considered.

Respectfully submitted

Douglas G. Jones, M.E.Sc., P. Eng.,
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Attachment(s): 1. Proposed Street Furniture