

Minutes – Standing Policy Committee on Finance – September 4, 2018

REPORTS

Item No. 3 Waverley Street at CN Mainline (Rivers) Grade Separation

STANDING COMMITTEE DECISION:

The Standing Policy Committee on Finance concurred in the recommendation of the Winnipeg Public Service and received the report as information.

Minutes – Standing Policy Committee on Finance – September 4, 2018

DECISION MAKING HISTORY:

Moved by Councillor Lukes,

That the report of the Winnipeg Public Service be received as information.

Carried

ADMINISTRATIVE REPORT

**Title: Waverley Street at CN Mainline (Rivers) Grade Separation,
Project ID: 1805001413,
Quarterly Project Status Report No. 09
For the Period Ended April 30, 2018**

Critical Path: Standing Policy Committee on Finance

AUTHORIZATION

Author	Department Head	CFO	CAO
B. Neirinck, P. Eng.	J. Berezowsky	M. Ruta	D. Wardrop, Acting CAO

EXECUTIVE SUMMARY

Project On Schedule: Yes No

Project On Adopted Budget: Yes No

Percent of Schedule Complete:

Percent of Adopted Budget Spent:

This is the ninth quarterly report to SPC Finance on this Project. Expenditures to April 30, 2018 total \$29,208,208.22. The total project Estimate at Completion of \$121.339M (no change from last reporting period) will continue to be reviewed as project risks diminish.

Construction on Contract 2 is ongoing. Underpass bridge construction is currently behind schedule by 5 – 6 weeks; however no impact on the overall project schedule is anticipated. If significant additional delays to the completion of the bridge structure are encountered, it could put the overall project schedule at risk of a delay up to 12 months.

Design for the retaining wall structure in the vicinity of 1360 Taylor Avenue was completed, which had an estimated budget requirement of approximately \$2.536M (Class 1 estimate). Upon further review by the Public Service, the Project will no longer be proceeding with construction of a retaining wall. The City is working with the owner to review site and parking alterations.

In accordance with the terms of the Crossing Agreement with CN, the City's existing contract with CN for supply of rail materials has been expanded to include rail construction work. There was no change to CN's awarded amount of \$6,800,000.00.

The Federal Contribution Agreement was finalized on February 27, 2018.

The Advisory Committee has reviewed this report and recommends that the report be sent to the Standing Policy Committee on Finance.

RECOMMENDATIONS

That the financial status of the Waverley Street at CN Mainline (Rivers) Grade Separation project, as contained in this report, be received as information.

REASON FOR THE REPORT

The Asset Management Administrative Standard FM-004 requires all projects with a total estimated cost of \$22 million (2018) or more report quarterly to the Standing Policy Committee on Finance. This threshold is adjusted annually for construction inflation as part of the annual Capital Budget approval. The Standing Policy Committee on Finance may also request reporting on any capital project.

IMPLICATIONS OF THE RECOMMENDATIONS

No implications.

HISTORY/DISCUSSION

See Appendix C – Key Project Events (History)

Construction (Update from last report)

The project is currently in the construction phase. The project has been divided into two construction contracts designated Contract 1 (now complete) and Contract 2 (underway).

Contract 2

Contract 2 was awarded to Maple Leaf Construction and consists of all the major components of the underpass project including: the underpass bridge structure; pump station; temporary detour roadways; installation of water and sewer infrastructure and extensive improvements to the surrounding transportation network.

During the reporting period, work has continued primarily on the bridge structure and pump station. Difficulties were encountered with subsurface conditions during the installation of deep foundations for the bridge structure. Specifically, at the middle pier, sound bedrock suitable for rock-socketed caisson foundations was not encountered at the expected depth due to a highly localized discontinuity in the bedrock. All remaining piers and abutments were installed with no difficulty. Modification of the caisson design

and installation methodology was required to achieve a foundation adequate for the bridge structure. This, together with a late start to bridge construction has combined to result in the bridge being behind schedule by 5 – 6 weeks. Refer to the Schedule section for additional discussion. Additional costs related to the foundation difficulties are also expected, and are currently being evaluated by the Contract Administrator.

Other

Various external utilities have been engaged to perform modification and/or relocation of their services to accommodate the proposed works.

Design for the retaining wall structure in the vicinity of 1360 Taylor Avenue was completed, which had an estimated budget requirement of approximately \$2.536 M (Class 1 estimate). Upon further review by the Public Service, the Project will no longer be proceeding with construction of a retaining wall. The City is working with the owner to review site and parking alterations.

Since the previous reporting period, the following new financial commitments were established:

- On February 21, 2018 the City of Winnipeg entered into an Electric Service Agreements with Manitoba Hydro for relocation of a single wood utility pole in the vicinity of Grant Avenue and Waverley Street, in the estimated amount of \$5,850.00.
- On April 24, 2018 the City of Winnipeg awarded a single source contract to the Pembina Trails School Division (Materials Management reference number 347-2018) for relocation of a fiber optic cable in conflict with the proposed work, in the estimated amount of \$121,880.00.

Construction and installation of temporary and permanent railway infrastructure and associated railway related works is being delivered by the Canadian National Railway Company (CN) (Materials Management reference number 98-2017). On March 16, 2018, CN's existing contract for supply of rail materials was expanded to include rail construction work. There was no change to CN's awarded amount of \$6,800,000.00.

Public Art Component

On March 13, 2018, the City Centre Community Committee approved the application for Land Dedication Reserve funding in the amount of \$100,000.00 from the City Centre Land Dedication Reserve (River Heights – Fort Garry Ward allocation) to assist in incorporating Public Art into the Waverley Underpass project. Total budget for Public Art is \$450,000.00.

The City is currently reviewing with the Provincial and Federal Governments if the Public Art component is eligible for cost sharing. Overall management of the Public Art component, including a call to artists and identifying sources of inspiration, will be delivered by the Winnipeg Arts Council (WAC).

Table 1 – Contracts

Bid Opportunity #	Company Name	Description	Original Contract Award Value (GST & MRST extra as applicable)	Total Approved Over-Expenditures (Over-Expenditure amount only)	Date of Award	Date of Total Completion	Estimated % Complete
RFP 66-2014	Dillon Consulting Limited	Consulting Services for Preliminary Engineering Study	\$ 1,011,904.00	\$ 50,000.00	30-Apr-14	30-Sep-15	100
RFP 150-2016	Dillon Consulting Limited	Consulting Services for Detailed Design, Contract Administration, and Post-Construction Services	11,368,000.00	655,430.00	29-Feb-16		60
Single Source	Fireseeds North Infrastructure	Independent Road Safety Audit	62,347.50		27-Sep-16		50
Bid-Opp 472-2016	Borland Construction Inc.	Contract 1 - Preliminary Underground Works and Security Fencing	2,088,994.00	871,763.57	23-Nov-16	23-Nov-17	100
Single Source	Canadian National Railway Company	Supply of Rail Materials, Installation, Signals, Flagging, Railway Utility Relocation	6,800,000.00		30-Jan-17		50
Single Source	Manitoba Hydro	Relocation of Electrical Distribution - Four Electric Service Agreements	1,228,002.00		29-Mar-17		100
Bid-Opp 473-2016	Maple Leaf Construction Ltd.	Contract 2 - Underpass Structure, Railworks, Roadworks, Land Drainage Sewer, Pumping Station and Landscaping Works	44,701,918.80	763,486.40	20-Apr-17		28
Single Source	Bell Canada	Communication Cable Relocation Works	800,000.00		9-May-17		50
Single Source	Manitoba Hydro	Fiber Optic Cable and Street Lighting - Two Electric Service Agreements	283,612.00		27-Jun-17	30-Sep-17	100
Single Source	Manitoba Hydro	Relocation of Various Natural Gas Pipelines	17,653.43		29-Jun-17		75
Single Source	Shaw Cablesystems G.P.	Relocation of Various Underground Services	27,821.30		29-Jun-17		100
Single Source	BellMTS (MTS Inc.)	Relocation of Communication Cables	90,160.73		18-Jul-17	30-Sep-17	100
Single Source	Manitoba Hydro	Natural Gas Service to Pump Station	49,004.00		8-Dec-17		-
Single Source	Manitoba Hydro	Electrical Service to Pump Station	140,571.04		13-Dec-17		-
Single Source	Manitoba Hydro	Relocation of Utility Pole at Grant Ave.	5,850.00		21-Feb-18		100
Single Source	Pembina Trails SD	Relocation of Fiber Optic Cable	121,880.00		24-Apr-18		-
Single Source	Winnipeg Arts Council	Public Art Component	450,000.00		7-May-18		-
		Total	\$ 69,247,719	\$ 2,340,680			

Schedule (Update from last report)

The Contract 2 bridge construction schedule is now projected to be complete on September 25, 2018, which is 5 – 6 weeks behind the contract critical date of August 17, 2018. This was caused by a late start to bridge construction work, and difficulties encountered during installation of deep foundations due to unforeseen subsurface conditions.

Completion of the bridge structure is critical to the overall project schedule because adequate time is required in the fall of 2018 for CN's contractor to complete mainline rail work over the new bridge and transition train traffic off the rail detour (shoofly) and over the new bridge. Failure to transition trains over the new bridge by the end of the 2018 construction season would result in an inability to complete bulk excavation under the underpass in the winter of 2018-2019, and severely compromise the ability to complete paving and drainage works under the new underpass in 2019.

Despite the delay to bridge completion, no impact is expected to the overall project schedule. The Public Service continues to work closely with CN to plan the fall 2018 rail works over the new bridge which reflects the anticipated bridge completion date.

If bridge completion date is delayed beyond September 25, 2018, it could result in a 9 to 12 month delay to the overall project completion. However, with bridge foundation works complete as of June 20, 2018, this is deemed to be low risk.

Table 2 – Milestones

Milestones					
Deliverable		Original Targeted Completion Date	Revised Targeted Completion Date	Actual Completion Date	Estimated % Complete
1	Preliminary Design	2015 Q1		2015 Q1	100%
2	Detailed Design	2017 Q1		2017 Q1	100%
3	Contract 1 Works - Total Performance	2017 Q2	2017 Q4	2017 Q4	100%
4	Detour Roadway	2017 Q4		2017 Q4	100%
5	Underpass Bridge Structure	2018 Q3			40%
6	Underpass Roadway	2019 Q3			0%
7	Contract 2 Works - Total Performance	2020 Q3			19%

Risk (Update from last report)

The bridge construction schedule remains a concern as it is tracking 5 – 6 weeks behind the critical dates for completion. The Public Service is working closely with CN to ensure the fall 2018 track works over the new bridge can be completed in a compressed timeframe. Additional significant delay in bridge completion beyond September 25, 2018 may result in insufficient time to transition trains off the rail detour and onto the new bridge, which would result in a 9 to 12 month delay in completing the overall project. At this time the risk of such a delay is considered low.

During installation of deep foundations for the bridge, difficult subsurface conditions were encountered. Bedrock conditions were found to be very poor for two of three rock-socketed caisson foundations for the center pier. An increase in the foundation depth was required to reach sound bedrock. Additional costs to deal with these conditions are expected and are anticipated to be within the budgeted contingency amounts for subsurface conditions. Installation of caissons was completed the week of June 18, 2018. Although bridge structure foundations are complete, bulk excavation and deep excavation for the pump station foundations are not yet completed, so there is still a risk that unsuitable subsurface conditions are encountered for these items.

Table 3 – Significant Risks and Mitigations Strategies

Significant Risks and Mitigation Strategies	
Risk Statement and Explanation	Risk Mitigation Management Plan
New:	
N/A	N/A
Ongoing:	
Delay in completion of Bridge Construction delays Fall 2018 rail work, delays project 9 - 12 months.	Contractor has assigned additional resources to girder fabrication and site work. City is working with CN to compress fall 2018 rail works to maintain project schedule.
Vehicle, pedestrian and cycling traffic negatively impacted by construction (e.g. delays, wayfinding difficulty)	Continued monitoring to ensure satisfactory performance.
Failure of third party utilities to relocate services could delay the project	All major Manitoba Hydro electrical distribution lines have successfully been relocated. Coordination continues with third party utilities to complete relocation work in time to avoid schedule impacts.
Encountering poor subsurface soil and groundwater conditions may delay the project and increase cost	A highly localized bedrock fissure resulted in schedule and cost impacts. Refer to above for schedule risk. Additional costs expected to be within budgeted contingency amounts.
Mitigated:	
Changes to railway requirements (addition of third track) may result in increased design and construction costs and schedule impacts	Third track concept no longer being pursued as part of Waverley Underpass project. City and CN will continue to discuss future impacts.
Failure to obtain a Crossing Agreement with CN	Crossing Agreement executed by CN on May 19, 2017
Failure to assemble required land could delay the project	An expropriation by-law was approved by Council on July 13, 2016. The City took possession of expropriated lands on January 12, 2017.
Lead-time for delivery of specialized large diameter pipe material could delay Feeder Main renewal work	Procurement of the specialized materials was added to Contract 1 works, and has successfully been supplied for Contract 2.
Maintaining the project schedule (administrative)	Developed a schedule that includes contingency, ongoing schedule reviews. Delegated authority to CAO to award competitively tendered construction contracts exceeding \$5,000,000 allowed for timely award of Contract 2.

Financial (Update from last report)

For further information, refer to Appendix B – Financial Forecast

The financial forecast is disclosed in Appendix B. Expenditures for the current reporting period (February 1, 2018 to April 30, 2018) were \$3,548,387.63 and primarily consist of Professional Services and Construction. Expenditures to date total \$29,208,208.22.

Currently, the total project Estimate at Completion is \$121.339M, resulting in a forecasted surplus of \$34.943M. The Estimate at Completion has not changed since the last report.

Funding (Update from last report)

On February 27, 2018 the contribution agreement between the City of Winnipeg and the Federal Government was finalized. The first Oversight Committee meeting was held on April 16, 2018.

On March 2, 2018 the first claim was submitted to Infrastructure Canada in the amount of \$7,529,886.57. This claim was later revised to \$7,456,733.19. As of the report period end date, total claims submitted to the Federal Government was \$7,890,122.35, and total claims submitted to the Provincial Government was \$7,982,395.31.

On December 18, 2017 the City invoiced CN for a total of \$3,230,000.00 representing 34% of their total \$9.5M contribution to the project. At writing, payment has not been received.

The majority of the City's share of project cost is to be funded by debt. To-date, \$17,000,000.00 of debt has been issued on the project (no change from last report).

Table 4 – Project Funding Forecast and Receivable

Funding Forecast and Receivable			
Funding Source	Adopted Budget (in millions)	Amended Budget (in millions)	Committed (in millions)
Class of Estimate	Class 3		
Cash to Capital	\$ 700	\$ 700	\$ 700
External Debt	\$ 63,332	\$ 53,832	\$ 53,832
Provincial Funding for Road Improvements	\$ 500	\$ 500	\$ 500
Provincial Building Manitoba Fund	\$ 45,875	\$ 45,875	\$ 45,875
Federal Building Canada Fund	\$ 45,875	\$ 45,875	\$ 45,875
CN Rail Contribution	\$ -	\$ 9,500	\$ 9,500
Total	\$ 156,282	\$ 156,282	\$ 156,282

Property Acquisition (Update from last report)

Approximately 13 private landowners have been impacted by the expropriation process associated with this project. The impacts include partial takings, temporary easements, and permanent easements. Meetings with individual property owners are occurring as the land acquisition process progresses.

Four landowners have reached negotiated settlements. Negotiations are ongoing with the remaining landowners. Failure to reach a negotiated settlement will result in the matter being referred to the Land Value Appraisal Commission (LVAC). The LVAC is an independent tribunal which determines the due compensation payable for government land purchases and expropriations.

Stakeholder Engagements/Communications (Update from last report)

Project details continue to be updated on the project website:
www.winnipeg.ca/WaverleyUnderpass.

Ongoing project newsletters and project website updates are summarized as follows:

- On April 16, 2018, Construction Update #5 was posted to the project website, serving to provide the public with the current status of the project and how it is expected to proceed over the 2018 summer construction season.

Subsequent Events after Report Period End Date

- On May 7, 2018, the CFO authorized award of a single source contract to the Winnipeg Arts Council for a public art component for the project, in the total amount of \$450,000.00. Of that, \$350,000.00 is to be funded by the Waverley Underpass project.
- On May 16, 2018, the City entered into an easement agreement with Manitoba Hydro for provision of an easement through the linear greenspace along Taylor Avenue necessary for the relocation of natural gas services.
- On June 20, 2018 installation of the last of two problematic caisson foundations was concluded, marking the completion of foundation work required for the rail bridge.
- On June 28, 2018 a news release and project website update were issued informing the public of an upcoming full closure of Waverley Street over the weekend of July 6 – 9, 2018 for track reconstruction.
- Over the weekend of July 6, 2018 starting at 10:00 AM through July 8, 2018 ending at 7:00 PM, Waverley Street (detour roadway) was completely closed to all traffic, cyclists and pedestrians in order to complete rail track reconstruction at the at-grade crossing with the detour road. The work was completed approximately 12 hours ahead of schedule.
- On July 31, 2018 the property owner representative for 1360 Taylor Avenue was informed that the City will not be proceeding with construction of a retaining wall, and that the City will work with the owner to review site and parking alterations.

FINANCIAL IMPACT

Financial Impact Statement

Date: **August 3, 2018**

Project Name:

Waverley Street at CN Mainline (Rivers) Grade Separation

Project ID: 1805001413

Quarterly Project Status Report No. 09

For the Period Ended April 30, 2018

COMMENTS:

There is no financial impact associated with the recommendation of this report.

"Original signed by J. Ruby, CPA, CA"

J. Ruby, CPA, CA

Manager of Finance & Administration

CONSULTATION

This Report has been prepared in consultation with:

n/a

OURWINNIPEG POLICY ALIGNMENT

01-3 Prosperity Direction 1: Provide efficient and focused civic administration and governance. This report supports demonstration of accountability through service performance measurement and reporting.

SUBMITTED BY

Department: Public Works

Division: Engineering

Prepared by: C.D. Ward, P. Eng., Bridge Projects Engineer

Date: July 26, 2018

Appendices

Appendix A – Key Project Facts

Appendix B – Financial Forecast

Appendix C – Key Project Events (History)

Appendix A – Key Project Facts

Appendix A – Key Project Facts	
Project Name	Waverley Street at CN Mainline (Rivers) Grade Separation
Business Owner (Department)	Public Works Department
Project ID	1805001413
Project Sponsor	Brad Neirinck, P.Eng., Manager of Engineering
Department Responsible for Project Delivery	Public Works Department
Consultant Engineer (Company Name)	Dillon Consulting Limited
Adopted Budget	\$156,282,000
Class of Estimate (Adopted)	Class 3 (-20% to +30%)
Range of Estimate (Adopted)	\$125,000,000 to \$203,167,000
Amended Budget	N/A
Class of Estimate (Amended)	N/A
Range of Estimate (Amended)	N/A
Project Scope	
<ul style="list-style-type: none"> • Underpass bridge structure, land drainage including pump station, roadways, active transportation pathways, and landscaping; • Temporary roadway and railway detours to facilitate underpass construction; • Twinning of Taylor Avenue from Waverley Street to Lindsay Street, and twinning of Hurst Way from Waverley Street to approximately 45 Hurst Way; • Improvements to Waverley Street from Wilkes Avenue to Grant Avenue, including intersection improvements; • Professional services for detailed design, contract administration, and post-construction services; • Land acquisition; and • Utility relocations. 	
Major Capital Projects Advisory Committee Membership:	
<ul style="list-style-type: none"> - James Berezowsky, Director of Public Works (Chair) - Brad Neirinck, Manager of Engineering, Public Works (Project Sponsor) - Tim Shanks, Manager Water Services, Water and Waste - Jason Ruby, Manager of Finance, Public Works - Marc Pittet, Manager of Land Development Geomatics Info, Planning Property and Development - Gord Chappell, Administrator Real Estate, Planning Property and Development - Georges Chartier, Chief Asset and PM Officer, Chief Administrative Office - Rob Taylor, Manager of Capital Projects, Chief Administrative Office 	

Appendix B – Financial Forecast

Appendix B - Project 1805001413 Financial Forecast

As at April 30, 2018

Project Component Deliverables	Budget (in 000's)			Actual Costs To April 30, 2018	Projected Costs			Total Forecasted Costs	Surplus (Deficit) From Amended Budget
	Adopted Budget	Council Approved Change	Amended Budget		Remainder	2019	2020		
Engineering, Design and Other	\$ 11,422	\$ -	\$ 11,422	\$ 8,615	\$ 2,745	\$ 2,486	\$ 70	\$ 13,916	\$ (2,494)
Construction	\$ 88,280	\$ -	\$ 88,280	\$ 17,302	\$ 40,831	\$ 23,000	\$ 1,000	\$ 82,133	\$ 6,147
Land Acquisition	\$ 4,200	\$ -	\$ 4,200	\$ 724	\$ 1,638	\$ 1,838	\$ -	\$ 4,200	\$ -
Internal Financing/Overhead Costs	\$ 10,090	\$ -	\$ 10,090	\$ 2,567	\$ 2,923	\$ 3,770	\$ 830	\$ 10,090	\$ -
Contingency	\$ 42,290	\$ -	\$ 42,290	\$ -	\$ -	\$ -	\$ 11,000	\$ 11,000	\$ 31,290
Total Project Budget	\$ 156,282	\$ -	\$ 156,282	\$ 29,208	\$ 48,137	\$ 31,094	\$ 12,900	\$ 121,339	\$ 34,943

Variance Last Report	Change in Variance
\$ (2,494)	\$ -
\$ 6,147	\$ -
\$ -	\$ -
\$ -	\$ -
\$ 31,290	\$ -
\$ 34,943	\$ -

% of Project Budget Spent (Actual Costs to Date / Adopted & Amended Budget)			
	19%		19%

* Amended budget and actual costs to date have been agreed to the City's general ledger and Monthly Capital Expenditures Report
This project was approved on December 12, 2012 (Preliminary Engineering Study) and February 24, 2016 (Detailed Design and Construction).

Appendix C – Key Project Events (History)

- On January 29, 2013, Council approved the 2013 Capital Budget that included an amount of \$1.2 million to undertake the preliminary engineering study for the Project.
- On April 30, 2014, Dillon Consulting Limited was awarded the consulting services for a preliminary engineering study under RFP 66-2014.
- On June 25, 2014, Council concurred with the Executive Policy Committee (EPC) that Waverley Underpass be identified as one of the City's top six highest priority major capital projects.
- On December 9, 2014, a public open house was held as part of the ongoing public engagement during the preliminary engineering study phase of the project.
- On March 24, 2015, EPC established Waverley Underpass as the City's highest ranking project of four significant capital projects.
- On March 25, 2015, Council approved the prioritization established by EPC.
- On May 19, 2015, the Administration submitted an application for infrastructure funding to the New Building Canada Fund.

2016

- On January 15, 2016, the Province of Manitoba provided approval-in-principle for their portion of funding to a maximum amount of \$45.9 million under the New Building Canada Fund.
- On January 20, 2016, the Federal Government provided approval-in-principle for their portion of the funding to a maximum amount of \$45.882 million under the New Building Canada Fund.
- On February 24, 2016, Council approved the addition of the Waverley Underpass project in the 2016 Capital Budget in the amount of \$155.082 million including the Provincial and Federal funding.
- On February 29, 2016, Dillon Consulting Limited was awarded consulting services for detailed design, contract administration, and post-construction services for the Project.
- On March 22, 2016, Council approved the 2016 Capital Budget which includes the Waverley Street at CN Mainline (Rivers) Grade Separation project as noted above.
- On April 21, 2016, the project website (www.winnipeg.ca/WaverleyUnderpass) went live.
- On June 15, 2016, Council approved the expropriation of lands related to the project.
- On July 13, 2016, Council approved By-Law No. 89/2016 for the expropriation of lands related to the project.
- On July 29, 2016, the City was informed by the Province of Manitoba that a waiver of the expropriation inquiry hearing had been granted by the Lieutenant Governor at the Cabinet meeting held on July 27, 2016.
- On August 26, 2016, the Director of Public Works approved an over-expenditure to Dillon Consulting Limited in the amount of \$158,530.00 for the incorporation of train and vehicle detection in the project area, to enable the use of new innovative technology to assist in the movement of traffic during construction.
- On September 6, 2016, the Director of Planning Property and Development approved Offers of Compensation for land acquisitions under \$25,000.
- On September 20, 2016, Standing Policy Committee on Property and Development, Heritage, and Downtown Development approved Offers of Compensation over \$25,000, to be made to land owners and other interested parties.

2016 continued

- On September 22, 2016, a website update occurred, providing notification of the Open House event, posting the open house materials including display boards, and posting a link for viewers to provide feedback through an online survey.
- On September 28, 2016, Council approved the consolidation/registration of land assembly corresponding to the expropriation, By-law 89/2016.
- On October 6, 2016, an Open House event was held. Two sessions were held at the Caboto Center at 1055 Wilkes Avenue, one from 3:30 pm to 5:30 pm, and a second session from 7:00 pm to 9:00 pm. The event was attended by approximately 500 members of the community. Feedback on the project was provided to the project team members. A corresponding update to the project website was made including posting of three 3D animated flythrough videos of the project.
- On October 17, 2016, Contract 1 was posted to the City of Winnipeg Bid-Opportunities website.
- On October 26, 2016, Council approved the delegation of authority to the Chief Administrative Officer to award competitively tendered construction contracts exceeding \$5,000,000, and the delegation of authority to the Chief Administrative Officer for negotiation and award of single source contracts with the Canadian National Railway Company exceeding \$5,000,000.
- On October 26, 2016, Council approved By-law 105/2016 for the opening of parts of Waverley Street and Taylor Avenue for the purposes of construction.
- On November 3, 2016, Bid-Opportunity 472-2016 closed, and the City received six responsive bid submissions for the work of Contract 1 – Preliminary Underground Works and Security Fencing.
- On November 23, 2016, Borland Construction Inc. was awarded Bid-Opportunity 472-2016 for the Waverley Street Underpass at CN Mile 3.89 Rivers Sub: Contract 1 – Preliminary Underground Works and Security Fencing, in the amount of \$2,088,994.00.
- On December 14, 2016, Council approved a cost-sharing arrangement for CN Rail to contribute \$9,500,000 as their cost apportionment for the project, to be used as a part of the City's portion of project funding.

2017

- On January 9, 2017, Contract 2 was posted to the City of Winnipeg Bid-Opportunities website.
- On January 12, 2017, the City of Winnipeg obtained possession of permanently expropriated lands and the right to enter and construct on lands subject to expropriated easements.
- On February 1, 2017, the first of several electronic newsletters (Construction Update #1) was issued, providing the public with an update on construction of the project.
- On February 10, 2017, the City was advised that CN property required for the project was sold to a private company. The land was identified as CN land at the start of the expropriation process, and was therefore not subject to expropriation because CN land cannot be expropriated. At that time, an interest in the required lands was expected to be obtained via the forthcoming crossing agreement between the City and CN.
- On February 13, 2017, the City of Winnipeg awarded a Single Source Purchase Order (Materials Management reference number 98-2017) to CN for the supply of rail materials.

2017 continued

- On March 14, 2017, SPC Property and Development, Heritage and Downtown Development approved the purchase of privately owned lands required for the project which were not subject to the expropriation bylaw.
- On March 20, 2017, the City of Winnipeg issued a notice in accordance with Section 8(1) of the Railway Safety Act for work related to construction of the new at-grade crossing of the Waverley Street Detour Road at the CN Rivers Subdivision Mile 3.94. Notices were issued to representatives of Grant Memorial, the Reh-Fit Center, and CN in accordance with the Act.
- On March 24, 2017, Bid-Opportunity 473-2016 closed, and the City received five responsive bid submissions for the work of Contract 2 – Underpass Structure, Railworks, Roadworks, Land Drainage Sewer, Pumping Station and Landscaping Works.
- On March 29, 2017, the City of Winnipeg entered into four Electric Service Agreements with Manitoba Hydro (Materials Management reference number 247-2017) for the relocation of various electrical distribution lines required for the project.
- On April 20, 2017, Maple Leaf Construction Ltd. was awarded Bid-Opportunity 473-2016 for the Waverley Street Underpass at CN Mile 3.89 Rivers Sub: Contract 2 – Underpass Structure, Railworks, Roadworks, Land Drainage Sewer, Pumping Station and Landscaping Works, in the amount of \$44,701,918.80.
- On April 25, 2017, the City of Winnipeg issued a notice in accordance with Section 8(1) of the Railway Safety Act for work related to alteration of the existing at-grade crossing of Waverley Street at CN Rivers Subdivision Mile 3.89. A notice was issued to CN in accordance with the Act.
- On April 26, 2017, the City issued a news release announcing the award of Contract 2 to Maple Leaf Construction Ltd.
- On May 5, 2017, a groundbreaking ceremony was held with the Mayor, Federal and Provincial Ministers, and CN representatives marking the commencement of underpass construction. Construction Update #2 was posted to the project website and issued to stakeholders. The City issued a news release with details of the day's events.
- On May 9, 2017, the City of Winnipeg awarded a Single Source Purchase Order (Materials Management reference number 411-2017) to The Bell Telephone Company of Canada or Bell Canada for works associated with the project.
- On May 17, 2017, Borland Construction Inc. achieved Substantial Performance of Contract 1 works.
- On May 18, 2017, the Chief Financial Officer approved a contract over-expenditure for Contract 1 in the amount of \$871,763.57, primarily to cover the cost associated with adding the supply of specialized feeder main materials with long lead time to Contract 2.
- On May 24, 2017, the City received a copy of the duly executed Crossing Agreement with CN, executed by CN on May 19, 2017 and effective May 1, 2017.
- On June 19, 2017, the City entered into an easement agreement with Manitoba Hydro related to provision of an easement through the linear greenspace along Taylor Avenue, necessary for the relocation of electrical distribution lines.
- On June 29, 2017, the City of Winnipeg authorized Manitoba Hydro to proceed with adjustment of various natural gas pipeline relocations.
- On June 29, 2017, the City of Winnipeg authorized Shaw Cablesystems G. P. to proceed with relocation of various underground services to accommodate the work.
- On June 30, 2017, the City of Winnipeg entered into two Electric Service Agreements with Manitoba Hydro (Materials Management reference number 538-2017) for the renewal of street lighting in the Vicinity of Waverley Street at Grant Avenue and for the relocation of Fiber Optic Cable along Taylor Avenue.

2017 continued

- On July 5, 2017, the City received a copy of the fully executed contribution agreement between the Government of Manitoba and the City of Winnipeg.
- On July 18, 2017, the City of Winnipeg authorized Bell MTS (MTS Inc.) to proceed with relocation of communication cables required for the project.
- On July 19, 2017, Council passed By-Law No. 50/2017 to prohibit the sounding of engine whistles at CN River Subdivision Mile 3.94.
- On July 26, 2017, a news release and website update were issued corresponding to the launch of a travel time information system.
- On July 31, 2017, a project scope change was initiated to proceed with detailed design and construction of a new retaining wall structure in the vicinity of 1360 Taylor Avenue, for the purposes of maintaining parking on City owned land currently leased to Mondo Foods Co. Ltd.
- On August 24, 2017, the Acting Chief Administrative Officer approved an over-expenditure for Contract 2 (Bid-Opportunity 473-2016) in the amount of 1.71% or \$763,486.40, primarily to cover the additional costs associated to address these poor subgrade soil conditions.
- On September 13, 2017, the Chief Administrative Officer approved an over-expenditure to Dillon Consulting Limited's contract in the amount of \$290,000 for consulting services related to design and contract administration services for a retaining wall structure at 1360 Taylor Avenue.
- On September 11, 2017, Construction Update #3 was posted to the project website, serving to provide notice of the weekend closure and subsequent detour roadway configuration.
- On September 22, 2017, rehabilitation of Waverley Street in the vicinity of Grant Avenue, including intersection improvements was completed.
- On September 25, 2017, the City issued a news release announcing the upcoming weekend closure of Waverley Street and Taylor Avenue and details of the detour roadway configuration.
- On September 28, 2017, a final inspection of the temporary at-grade detour crossing at CN Rivers Subdivision Mile 3.94 occurred between CN and City representatives.
- On September 29, 2017 at 5:30 PM, Waverley Street and Taylor Avenue were completely closed to vehicular, cyclist and pedestrian traffic in the vicinity of the project area.
- On September 30, 2017, CN officially closed the existing public crossing at Mile 3.89 Rivers Subdivision.
- On October 2, 2017 at 6:00 AM, Waverley Street and Taylor Avenue were re-opened to traffic now operating on the detour configuration, which is expected to be in effect until the fall of 2019, at which time traffic is expected to be transitioned under the new underpass roadway.
- On October 2, 2017 at 6:00 AM, CN officially opened the new temporary public crossing at Mile 3.94 Rivers Subdivision, complete with anti-whistling status.
- On October 9, 2017, renewal of the Midtown Feeder Main works was completed.
- On October 20, 2017, the Chief Administrative Officer approved a third contract over-expenditure for Dillon Consulting Ltd. in the amount of \$206,900 for redesign of the in-line casing pipe installation to an offline trenchless replacement in order to mitigate the risk of project delay.
- On October 31, 2017, the City issued a news release warning drivers to expect additional delays in the project area for several days while rail traffic was being transitioned to the rail detour.
- On November 8, 2017 the rail detour was completed and successfully put into operation.

2017 continued

- On November 23, 2017, Borland Construction Ltd. achieved Total Performance for Contract 1 (Bid Opportunity 472-2017). The final contract amount was \$2,861,800.30.
- On November 28, 2017 the CAO concurred with the recommendation that approximately \$350,000 of the existing approved Capital Budget for this project be reallocated for Public Art on the project, together with \$100,000 from the Land Dedication Reserve Fund (subject to approval), for a total approximate Public Art budget of \$450,000.
- On November 30, 2017 Manitoba Sustainable Development issued authorization to the City under *The Water Rights Act* to divert groundwater for construction dewatering purposes for the project.
- On December 6, 2017, Construction Update #4 was posted to the project website, serving to provide the public with the current status of the project and how it is expected to proceed over the winter of 2017-2018.
- On December 7, 2017 Infrastructure Canada confirmed in writing that sole source elements of the project associated with CN rail related works will be considered eligible for the Federal funding contribution.
- On December 8, 2017 the City entered into a Natural Gas Service Agreement with Manitoba Hydro (Gas) for provision of natural gas service to the underpass pump station, required for operation of a backup generator to provide electricity for pumps in the event of power loss, in the amount of \$49,004.00.
- On December 13, 2017 the City entered into an Electric Service Agreements with Manitoba Hydro (Materials Management reference number 1076-2017) for provision of electric service to the underpass pump station, in the amount of \$140,571.04.
- On December 18, 2017 the City invoiced CN for a total of \$3,230,000.00 representing 34% of their total \$9.5M contribution to the project.
- On December 21, 2017 a quarterly progress report was submitted to the Province, along with the first claim under the Contribution Agreement in the amount of \$5,001,847.99.

2018

- On February 21, 2018 the City of Winnipeg entered into an Electric Service Agreements with Manitoba Hydro for relocation of a single wood utility pole in the vicinity of Grant Avenue and Waverley Street, in the amount of \$5,850.00.
- On February 27, 2018 the contribution agreement between the City of Winnipeg and the Federal Government was finalized.
- On March 2, 2018 the first claim was submitted to Infrastructure Canada in the amount of \$7,529,886.57. The first claim was later revised to 7,456,733.19 The second Federal claim was submitted on March 15, 2018, in the amount of \$433,389.16.
- On March 13, 2018, the City Centre Community Committee approved the application for Land Dedication Reserve funding in the amount of \$100,000.00 from the City Centre Land Dedication Reserve (River Heights – Fort Garry Ward allocation) to assist in incorporating Public Art into the Waverley Underpass project.
- On March 16, 2018, CN's existing contract for supply of rail materials was expanded to include rail construction work.
- On April 16, 2018, Construction Update #5 was posted to the project website, serving to provide the public with the current status of the project and how it is expected to proceed over the 2018 summer construction season.
- On April 16, 2018 Oversight Committee Meeting #1 was held between City of Winnipeg, Province Government, and Federal Government representatives.

2018 continued

- On April 24, 2018 the City of Winnipeg awarded a single source contract to the Pembina Trails School Division (Materials Management reference number 347-2018) for relocation of a fiber optic cable in conflict with the proposed work, in the estimated amount of \$121,880.00