

# Mill Woods Double Barrel Replacement Project

November 16, 2016

## Scope of Work

The project scope includes:

- Installing approximately 3,390 m of new storm trunk sewer along the alignment (as shown on Attachment 1) and connecting existing sewers to the new trunk. The four major legs of the sewer are:
  - 85 Street (between 23rd Avenue and Knottwood Road) – Completed and in service
  - 23 Avenue (between 91st Street and 85 Street) – Completed and in service
  - 91 Street (between 23rd Avenue and 30 Avenue) – Tunnel construction completed and in service, service connections ongoing
  - 30 Avenue (between Gateway Boulevard and 91st Street) – Completed and in service
- Converting the existing double barrel sewer into a full sanitary sewer.

## Budget and Expenditures

The current approved budget is \$81.0 million. The total spent up to October 31, 2016 was \$65.3 million.

## Schedule

### 85<sup>th</sup> Street Tunnel and Connections

- Tunnel Completion: Completed
- Connections: Completed mid October 2016
- Surface restoration including curb, sidewalk and road surface: Completed end of October 2016
- Minor landscaping work: August 2017

### 23<sup>rd</sup> Avenue Tunnel and Connections

- Tunnel Completion: Completed
- Connections: Completed
- 23 Avenue west bound lane, curb and sidewalk were temporarily restored
- Permanent surface restoration including landscaping: August 2017

### 91<sup>st</sup> Street Tunnel and Connections

- Tunnel Completion: Completed
- Connections: November 2016
- Landscaping restoration: August 2017

## **Double Barrel Conversion to Full Sanitary Sewer**

- Conversion completion: March 2017

## **Progress Highlights**

### **85<sup>th</sup> Street Tunnel and Connections**

- There are three major components to this work: tunnel excavation and concrete tunnel segment installation, construction of three shafts and structures, and construction of connections to a new tunnel.
- The construction of the tunnel and three shafts were completed in 2015.
- Final connections of existing storm trunks to the newly constructed storm tunnel and connection of the local sewer infrastructure to the new tunnel by open cut construction was completed in mid-October 2016.
- Surface restorations for curb, sidewalk and road surface were permanently completed.
- 85 Street was fully open to traffic on November 1, 2016.

### **23<sup>rd</sup> Avenue Tunnel and Connections**

- There are three major components to this work: construction of three shafts and structures, tunnel excavation and concrete tunnel segment installation, and construction of connections to the new tunnel.
- The 23rd Avenue portion of the tunnel was completed on August 5, 2016.
- The connections from the existing stormwater infrastructure to the new tunnel using open cut construction were complete on November 8, 2016.
- 23 Avenue west bound lane, curb and sidewalk were temporarily restored and open to traffic on November 9, 2016.
- The remaining minor paving at the intersection of 23 Avenue and 85 Street is scheduled to be completed by November 18, 2016, weather permitting.

### **91<sup>st</sup> Street Tunnel and Connections**

- There are two major components to this work: shaft and tunnel construction, and construction of connections to new tunnel.
- The shaft and tunnel construction has been completed.
- The connections to the new tunnel commenced in mid-August and are scheduled to be completed by November 2016.

### **Full conversion of the Double Barrel at Parsons Road**

- The conversion of the existing double barrel into a sanitary pipe at Parsons Road and 30th Avenue Right of Way involves the construction of a 24 meter deep shaft and hand tunnel.

- The construction began on August 22, 2016 and is expected to be completed by December 2016.
- In order to maintain safety during construction, Parsons Road Northbound from 29th Avenue to 31st Avenue was reduced to one lane starting Monday, August 22 at 9 a.m. Notifications were provided in advance of the traffic restrictions

#### **Surface Restoration**

- Remaining surface restoration (landscape, sidewalk, road) at the above locations to be completed by August 2017

**\*Note: Weather and ground conditions can have a large impact on the construction schedule.**



Mill Woods Double Barrel New Storm Trunk Alignment