

## **Village of Oak Park/BNRWC Water Transmission Main Fillmore Street Relief Sewer Project**

The Scope of Work set forth herein defines the work to be performed by MWH in completing the Fillmore Street Relief Sewer Project.

### **Background**

As part of the 2014 Combined Sewer Master Plan, MWH recommended construction of approximately 1400-feet of 24- and 30-inch diameter combined sewer on Fillmore Street. The Brookfield North Riverside Water Commission (BNRWC) is planning construction of a 36-inch potable water transmission main through the Village on Fillmore Street. The Village intends for these projects to be built concurrently under the same construction contract.

MWH will provide design engineering services for approximately 1400-feet of 24- and 30-inch combined sewer, manholes, and appurtenances on Fillmore Street between East Avenue and Ridgeland Avenue. Drawings produced by MWH will be inserted into the BNRWC's bid package for the 36-inch water transmission main and constructed as part of that contract.

### **Task 1 - Preliminary Engineering Analysis**

Task 1 Preliminary Engineering Analysis will begin with a kickoff meeting with the Village and BNRWC. BNRWC will present survey data and all water transmission main alternative alignments in AutoCAD format. Survey data is assumed to contain all pressure, gravity, and dry utility data. MWH will present the combined sewer alignment as proposed in the Combined Sewer Master Plan and based on GIS data and preliminary BNRWC Transmission Main drawings provided by Frank Novotny & Associates in October 2015. MWH will review the modeled alternative.

The preliminary (30%) design consisting of an AutoCAD format version of one (1) 1:50 scale plan sheet and three (3) 1:20 scale plan and profile drawings will be submitted to the Village no later than three (3) weeks after the kickoff meeting, followed up by a workshop with the Village and BNRWC to finalize alignments. Meeting minutes will be provided by MWH. Project will be designed as in the 2014 MWH Combined Sewer Master Plan, and no additional basis of design will be prepared.

### **Task 2 - Detailed Design**

MWH staff will prepare detailed design drawings at 98% and 100% design levels based on the 30% design developed under Task 1 and Village comments. MWH will use Village standard sewer details and specifications. Design drawings developed by MWH for the Fillmore Street Relief Sewer Project are to be incorporated into the design documents developed for the BNRWC Water Transmission Main. MWH will coordinate with BNRWC for consistency in coordinate system, numbering systems and to provide electronic data on the Fillmore Street Relief Sewer Project for BNRWC to incorporate the MWH design into the BNRWC bid package.

The full design drawing set produced by MWH will consist of one (1) 1:50 scale plan drawing and three (3) 1:20 scale plan and profile drawings and up to two (2) sewer detail drawings. AutoCAD and PDF versions of the full design drawing set will be delivered at the 98% design level for Village review and comment; and at the 100% design level for reproduction and distribution. The Village will provide written review comments on the 98% design set on or before the date indicated in the schedule. The 98% set will be delivered three (3) weeks after receiving the Village's 30% review comments, and the 100% design set will be delivered three (3) weeks after receipt of the Village's 98% design review comments.

MWH has not budgeted for support during bidding or for change orders during bidding or construction.

### **Task 3 – Permitting Support**

Permit applications will be prepared based upon 30% engineering design and feedback from regulatory agencies. MWH shall provide the draft permit applications to the Village for review and incorporate one round of Village comments. Village shall be responsible for submitting permit applications to the appropriate regulatory agencies and for paying any associated fees.

Permit applications prepared by MWH will include:

- MWRDGC Watershed Management Ordinance (WMO) Permit required for Qualified Sewer Construction as defined by the WMO
- IEPA Schedule B Publicly Owned Sewer Extension Permit

It is assumed that a WMO Permit as required for Development Activities will be prepared by BNRWC for Transmission Main construction activities. Preparation and submittal of a WMO Permit required for Development Activities is not included in this scope.

MWH shall prepare responses to permit questions posed by regulatory agencies. For the purpose of this scope it is assumed that a minor number of comments will need to be addressed, and 8 hours have been budgeted toward this activity.

### **Task 4 – Project Management and QA/QC**

Project management is a critical activity to be integrated with the execution of tasks identified above. MWH shall utilize procedures related to scheduling, project documentation, risk management, QA/QC, and others as necessary to enhance budget, scope and time management for the Fillmore Street Relief Sewer Project.

### **Optional Task 5 – Engineering Services During Construction**

MWH could provide construction administration services on a part-time basis for periodic and on-call assistance to the Village during Fillmore Street combined sewer construction. Services may include the following activities if requested:

- Periodic and/or on-call construction observation and verification of conformance with construction drawings (up to four (4) site visits)
- Response of up to 2 RFI's related to the sewer design.
- Summarizing construction activities and observations from each site visit

**Assumptions for Design:**

- Field survey including geotechnical survey and historical record drawings will be available at project kickoff
- All existing utilities are assumed to be a conventional depth
- Field survey data will be complete at time of kickoff meeting
- Typical geotechnical conditions are assumed
- BNRWC Transmission Main Engineer will perform review of shop drawings

**Exclusions**

The Fillmore Street Relief Sewer Project Scope of Work does not include the following:

- Performing field survey
- Provision of supplemental information for front-end documents
- Development of technical specifications
- Design or construction engineering support during construction of the BNRWC Water Transmission Main
- Permitting support for construction of the BNRWC Water Transmission Main
- Engineer's Opinion of Probable Cost (OPCC) estimation
- Bidding services
- Design for utility relocation
- Review of as-built sewer drawings

**Schedule**

Duration (weeks)	Date	Activity
	11/2/2015	NTP and Final Topographic Survey Data Delivered to MWH
	11/9/2015	Project Kickoff Meeting
4	11/30/2015	30% Draft Design Submittal
1 day	12/1/2015	BNRWC and Village Review Comments Delivered to MWH
3	12/21/2015	Draft WMO and IEPA Permit Submittals
3	12/21/2015	98% Draft Design Submittal
1	12/28/2015	BNRWC and Village Review Comments Delivered to MWH
3	1/18/2016	100% Design Submittal