

Town of Highland Park

Field Inspection and Remaining Useful Life Evaluation for the Turtle Creek Sewer Interceptor

Draft Scope of Services

08/30/2018

Scope Items

1. Research GIS, As-Built, Pipe Manufacturer, Shop Drawings or other sources to determine the best available estimate of original pipe wall thickness.
2. Conduct review of manhole inspection data including interpretation of IBAK 360° scan of each manhole. Utilize inspection results to determine completeness of inspections and to assess structural condition of manhole and determine recommendation on rehabilitation or replacement. Convert inspection into NASSCO MACP format for standardization.
3. Conduct full engineering analysis of CCTV, sonar, and laser profiling inspection data including interpretation of laser profile results to determine completeness of inspections and to assess structural condition of pipeline segment.
4. Utilize inspection results and physical data on sewer interceptors to develop remaining useful life (RUL) estimates for each pipeline segment. Populate GIS with identified RUL score for each pipeline segment. Create a map book that graphically displays an RUL score for each of the pipeline segment.
5. Prepare Draft Tech Memo including CCTV, sonar and laser profiling results along with any defects requiring immediate repairs, and recommendation on possible replacement for inspected manholes and interceptors.
6. Meet with the Town to review Draft Technical Memorandum findings and present recommendations.
7. Address comments and finalize Technical Memorandum.

Deliverables

- CCTV, sonar, and laser profiling inspection data.
- Manhole inspection report with inspection converted into NASSCO MACP format.
- GIS shapefile of Remaining Useful Life Scoring for each pipe segment and inspected manhole with MACP.
- Map book that graphically displays an RUL score for each of the pipeline segment.
- Technical Memorandum: Turtle Creek Interceptor and Manhole Condition Assessment & Recommendations

Scope of Services does not include the following:

- Pre-cleaning or post-cleaning of wastewater interceptor

Subconsultant: ACE Pipe Cleaning services include the following:

- MSI HDCCT/Laser/Sonar Inspection of 12,385 Linear feet of 15"-30" Interceptor.
- Sonar Inspection of 24" Siphon.
- 35 - IBAK HDCCTV Manhole Inspections.
- 35 – manhole cleanings, power washed.

Assumptions:

- Town of Highland Park will provide access to the work site which will be adequate for Ace's equipment and will be at least 150 feet from manhole.
- Town of Highland Park will coordinate with any private property owners.
- Town of Highland Park will provide water for cleaning and access to hydrant and hydrant meter.
- There are no hazardous materials present in the project area.

Compensation:

Compensation to FNI shall be the lump sum fee of One Hundred Fifty-Three Thousand Dollars (\$153,000) for the services listed above.