Sanitary Sewer Cross Bore Inspection Process

• **Startup**
  – Review/approve contract
  – Prepare for equipment and personnel needs
  – Acquire mapping
  – Mobilize

• **Field Work**
  – Locate manhole/sewer line
  – Verify access
  – Determine best inspection method
  – Inspect laterals for cross bores
  – Fix cross bores
  – Re-inspect to confirm repair is acceptable
  – Report findings

• **QA/QC – Data Analysis**
  – Review field data
  – QA/QC – request recollection if necessary
  – Prepare final reports
  – Follow-up with gas line client for report approval

Courtesy of Hydromax USA
Cross Bore Inspection Process Chart - Startup Processes for Inspection co. and Gas Client

Gas Client & Sewer Utility

- Locate MH Depths
- Locate C/O Depths

- Assume MH Depths

- Pothole @ 400 ft Increments
- Decide Gas Line Depth

- Install Gas Line & Mark Gas Line

Startup Process

1. Contract Negotiation
2. Contract Review & Approval
3. Personnel Needs Review
4. Equipment Needs Review
5. Provide Mapping & Utility Location Info
6. Project Startup Mobilize

Decision Points:
- Yes
- No

Back to complete chart

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Cross Bore Inspection Process Chart - Field Work Process

Field Work Process

- SURFACE Locate MH & Sewer Main
  - Locate MH & Sewer Main
    - Locate Cleanout Or House Access To Lateral
      - Document / Notify Lack of Access In Final Report
  - Document / Notify Lack of Access In Final Report

- Is Lateral Insp. Possible?
  - Access Provided
    - Access Provided
      - Sewer Main Or C/O Or House
      - Collect Lateral Inspection Data From Sewer Main
      - Collect Lateral Inspection Data From Cleanout/House
    - Fix Cross Bore
      - Document / Notify Cross Bore Found
      - Other Utility Cross Bore Found
      - Gas Cross Bore Found

- Yes
  - Direction
    - Optional
  - To Final Report

- No
  - Optional

Back to complete chart

Inspection Co. & Gas Line Client
Inspection Company
Gas Line Client
Sewer Utility & Gas Line Client

Lack of Access

Optional

For the Courtesy of Hydromax USA
Cross Bore Inspection Process Chart - QA/QC Data Analysis

Office Analysis Process

Transfer Inspection Data To Office Via FTP

QA/QC Check for Image Quality, Accuracy, Completeness, GPS Logs, Run Batches/Stats

Gas Cross Bore Found

Other Utility Cross Bore Found

Document / Notify in Final Report

Reconcile Problem

Deliver Final Report To Gas Line Client

Gas Line Client Review & Approval of Final Report

Invoice Gas Line Client

Inspection Co.
Gas Line Client

Inspection Co.
Sewer Utility & Gas Line Client

Yes
No
Direction

Back to complete chart

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