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Aug 14, 2013

Alexis Wilcott, B.Sc. (C.E.) EIT  
Municipal Designer, Municipal Infrastructure Department  
KGS Group  
3rd Floor - 865 Waverley Street  
Winnipeg, MB R3T 5P4

Dear Alexis Wilcott:

**Re: 2013 Local Improvement Alley Program: Hydro Infrastructure**

Manitoba Hydro (Gas) has reviewed the design submitted by the KGS Group for the 2013 Local Improvement Program. The following parameters shall be followed when working in proximity to all natural gas mains. Please ensure that all requirements are communicated to your contractor.

**1. Natural Gas Record Drawings**

- During the review it was noted that Manitoba Hydro's natural gas plant is incorrectly represented. Please update your records in accordance with the attached as-built drawings.

Notes:

- 1) Services are not shown and must be traced for location.
- 2) A 60.3mm distribution pressure gas main exists at the alley between Dollard Blvd. & Bertrand St. This was not shown on the drawing provided (Sheet 9).

**2. Special Concern – 323.9mm Steel High Pressure Natural Gas Main on Rue Des Meurons (Sheets 3 & 4)**

- Excavations for proposed work appear to be within 1.0m of the 323.9mm main. A Manitoba Hydro High Pressure Safety Watch is required for all construction activities within 3.0 m of the high pressure natural gas main.
- Contact "Call before you dig" 2 weeks prior to any work commencing within 3.0 m of the high pressure natural gas main to arrange for a Manitoba Hydro High Pressure Safety Watch at **204-480-1212**.
- Prior to construction at this location, please expose the main by hand or hydro-excavation in order to confirm elevation of the pipe.
- A minimum 900 mm of cover shall be maintained in all areas where equipment will be crossing, traveling or compacting over the 323.9mm gas mains. Vibratory compaction cannot be used over or within 3 m of a high pressure main.
- A smooth edged bucket shall be used for any excavations within 3.0m of a high pressure main.
- Subbase material shall be bladed into place as opposed to being end dumped over the 323.9mm gas main in areas with less than the minimum cover.

- The contractor and all site supervisory personnel and equipment operators shall be informed of the risks associated with working adjacent to and over this pipeline by the Resident Inspector. New site personnel during construction shall be orientated as to the significance and constraints associated with working over and around a high pressure natural gas main.

**3. Sidewalk Renewals**

- Excavations shall be limited to removal of the existing concrete sidewalk. All further excavations within 1.0 meter of any natural gas main or service must be completed by hand or soft dig methods.

**4. Asphalt Overlays and Road Reconstruction**

- When excavations for concrete works are required within 1.0 meters of any natural gas main, the main must be exposed by hand or soft dig methods to verify the main elevation at intervals to be determined by the site inspector.
- Should a main be exposed to sub-base, the main requires rock wrap and may also require lowering.

**5. Please add a “Caution – Gas” note at locations:**

- Where the 60.3mm distribution pressure gas main crosses over proposed asphalt overlays at intersection Clonard Ave & Des Meurons St. (Sheet 4).
- Where the 60.3mm distribution pressure main crosses over proposed excavations for concrete work at the alley between Dollard Blvd. & Bertrand St. (Sheet 9). Please refer to as-built drawing, since this main is not shown in the diagram provided.

**6. General:**

- Manitoba Hydro is NOT part of the ClickBeforeYouDigMB.com service and Hydro customers must continue to phone 1-888-MBHYDRO (1-888-624-9376), or 204-480-1212 in Winnipeg, to arrange electric and natural gas line locates. Hydro is supportive of the ClickBeforeYouDigMB.com initiative but cannot participate at this time due to legislation which Hydro is lobbying to change.
- Please note that the requirements of Manitoba Hydro’s Safe Excavation and Safety Watch guidelines shall apply. All construction operations within the vicinity of natural gas pipelines are to take place in a manner so as not to damage or cause detriment to the integrity of the natural gas pipeline. All natural gas pipelines and service lines must be properly located and marked by Manitoba Hydro personnel. Construction operations are not to commence unless these conditions are adhered to. **Call before you dig 480-1212.** (1-888-624-9376 outside of Winnipeg).
- All excavations within 1.0 meter of any natural gas main must be completed by hand or Hydro-excavation.
- A minimum vertical separation of 300 mm from gas mains and 100 mm from gas service lines must be maintained between any Manitoba Hydro facility and any new installations.
- A minimum 600 mm of cover shall be maintained in all areas where equipment will be crossing, traveling or compacting over the 60.3mm gas mains. Vibratory compaction cannot be used over or within 1m of a main.
- A minimum 450 mm of cover shall be maintained in all areas where equipment will be crossing, traveling or compacting over the gas service lines. Vibratory compaction cannot be used over or within 1 m of a service.

- If equipment must cross, travel, or compact over the gas main with less than the minimum depth of cover, earth bridging or steel plates shall be placed over the main and extend a minimum of 1.0 meter on either side at each crossing location.
- Caution must be used to ensure the integrity of the pipeline coating. Any damages to the coating must be reported to and repaired at no cost by Manitoba Hydro prior to backfilling.

Manitoba Hydro believes that there should be no problem with this work however; Manitoba Hydro makes no representations or warranties in that regard.

**Please note that all construction drawings requiring review or approval must be mailed to Gas Pipeline Engineering, Box 7950 Station Main, Manitoba, R3C 0J1. If you wish to send construction drawings electronically, they may be sent to [ManitobaHydroNaturalGasDesign@hydro.mb.ca](mailto:ManitobaHydroNaturalGasDesign@hydro.mb.ca).**

If you have any questions or comments, please contact the undersigned at (204) 360-7707.

Regards,



Greg Blazek, P.Eng.

Senior Gas Design Engineer

Distribution Design Department - Winnipeg

GB/kt

Cc: Vern Los, Gas Supervisor - Notre Dame, Manitoba Hydro  
Shane Heiner, Gas Distribution MTCE - Notre Dame, Manitoba Hydro  
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