01-234


Victoria City: Plan of Section 138 of Lot 138.

Plan 22217

Received 29 April 11
From City of Victoria

Technical-01
Reference Materials

D.L. & A. Samuel
B.C. Land Surveyors
Victoria, B.C.
Schedule "A"

LOT 1
PLAN 28582
PLAN 880 B.L.
(JOHNSON STREET)

Rec'd 29 Apr '11
From City of Victoria

5010751-100
Technical - 08
Reference Materials

LEASE AREA TO
City of Victoria
The purpose of this document is to summarize the TELUS Duct location survey.

The chronological events are as follow:

**Inland Excavation:**
Dec 4th, 2009 – We received as-built drawing from the City of Victoria dated 1973
- Since the drawing is hard copy, we scanned it in and imported it into AutoCAD so that the alignment of the TELUS Ducts can be referenced by our base map.
- Prepare sketch for field crew and correspond with TELUS staff regarding their involvement in this exploration survey.

Dec 7th, 2009 – Stake-out TELUS Ducts location.
- Site visit, field stake-out and Manhole check against the as-built drawing to confirm the correctness of the as-built profile.
- Import field data to check paint line accuracy. Found that the field crew did not notice the slight bend at the end of the most westerly section past the old E&N railway towards Esquimalt Road.
- The error was later fixed manually by me (scrapping the paint dots and move to the correct location). The marks were temporary only for the purpose of locating the underground TELUS ducts, therefore we feel that it is not necessary to move the points on the drawing to reflect the correction.

Dec 16th, 2009 – TELUS line excavation
- The date of the excavation, IR Wilson (archeology firm) was on site to monitor as required.
- We started at approx. 35+41 feet chainage according to as-built drawing. We calculated the approx. depth of the Ducts at 4m below surface.
- Since the Ducts were installed while the E&N railway was in service, the Ducts are wrapped around by Carbon Steel Pipe and force driven beneath the railway tracks (pipe-jacking).
- During the excavation, IR Wilson found broken bottles and ceramic plates as well as old railway spikes at approximately 3m below surface. The surface seems undisturbed according to IR Wilson.
- We continued digging until we reached 5.3m depth. At that point we concluded that the ducts are not in the location as indicated by the as-built drawing. I had asked the excavator if we can widen the area a bit, but an UNKNOWN gas line was sprayed by BC ONE CALL right next to the TELUS line we staked out (figure 1). With the risk involved we had decided to abandon this search location.

Dec 17th, 2009 – Excavation continue
- Our next excavation point was at chainage 34+00 feet. Our calculation indicated that the Ducts were concrete casted and were installed at approximately 2m below surface.
- The excavator found the concrete surface at 1.8m below surface, consistence with the as-built drawing.
- On the same day, a drawing was prepared and submitted to MMM Group which explained our findings.

Dec 18th, 2009 – Correspondences with City of Victoria and TELUS
- As requested, we submitted our findings to both TELUS and City of Victoria.
Underwater Exploration:
Jan 20th, 2011 – had a site meeting with City of Victoria regarding the location of the underwater Ducts.
Jan 21st, 2011 – Underwater exploration
- We send our field crew on site to put wooden laths and paint marks on both side of the inland portion of the foreshore. To facilitate divers.
- The divers found the Ducts at approx. 30+75 feet chainage (again reference to the as-built alignment). City of Victoria staff instructed the diver to abandon the search on the east side indicating there is no need to further locate the ducts.
- On the same day we received drawings and coordinates of the proposed borehole location from Stantec. We were asked to stake-out those marks for the driller so they will miss the TELUS line.

This document is prepared by: Kenneth Ng, BCLS on Feb 16, 2011

Signature:

Kenneth Ng
4TS8AN
One Call Locators Canada Limited

Address: 

Locate Marks:

- Paint
- Flags
- Stake
- Other

Legend:

- Gas Main
- Water Main
- Electrical Main
- Other

Comments:

- TFL
- Sani, storm or water
- Drawings required
- No to mark
- Sani, storm or water

Disclaimer: The location of the marked utility is approximate only. All ground disturbances in proximity to buried utilities must follow WCB regulation 20.79 Excavations, Underground Utilities. One Call Locators Canada Limited will not accept any liability for damages incurred as a result of this locate.

You are responsible for any damage caused to the facility by your operations.

Located by: 

Date: Dec 10, 2009

Time:

Client's name: Jon Hall

Signature:

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