

**CITY OF WHITEHORSE SERVICING STANDARDS MANUAL
PART I - PROCEDURES
APPENDIX I.K – AS-BUILT DATA ACQUISITION STANDARD**

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I.K.1 SCOPE OF WORK

The Developer is required to provide as-built survey point data along with Record Drawings for each project involving installation of new City infrastructure or improvements to existing City infrastructure.

As-built survey point data and Record Drawings are to be provided in AutoCAD dwg format.

Survey point data is to be provided in a stand-alone file.

All AutoCAD files are to be saved in a file version compatible with AutoCAD 2018.

I.K.2 SURVEY DATA REQUIREMENTS

All surveys are to be tied to the City's legal framework and all coordinates are to be based on the Whitehorse Control Survey Net (UTM-NAD83). Horizontal and vertical tolerances are to be +/- 50mm & +/- 25mm respectively.

Survey point data is to include all elevations and point descriptors.

All point descriptors are to conform with the Servicing Standards Manual Appendix 2B – Symbols Legend.

Survey pickup is to include (but not be limited to):

- Roadway Centre line: Finished grade at 10m intervals and at breakpoints;
- Curb: Lip of gutter, back of curb, and gutter at 10 m intervals and at vertical and horizontal deflections;
- All sidewalks, let downs and commercial crossings;
- Water Mains: Invert every 10 m and at bends, valves, tees, crosses, and other fittings;
- Hydrants: Invert, top flange, and center of hydrant;
- Storm Mains: Invert every 10 m;
- Catch basins: Center of barrel, center of rim, and inverts;
- Sanitary Mains: Invert Every 10 m.
- Manholes: Inverts, center of barrel, and center of rim;
- Water Services: Main Stops, curb stops (surface and invert), bends and stub invert;
- Sanitary Services: Saddles, riser, bends, and stub invert;
- All line paintings and symbols;
- All sign posts;
- All utility boxes;
- All pedestals; transformers, switch modules etc.;
- All power poles and anchors;
- All light poles; and
- Conduit: Every 10 m along center of bundle, bends and stubs.

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I.K.3 RECORD DRAWING REQUIREMENTS

All drawings are conform to City of Whitehorse standards in respect to:

- Symbols;
- Scale;
- Color;
- Linetype; and
- Lineweight.

Refer to Servicing Standards Manual Appendix 2B and the City of Whitehorse.dwt file available on the Engineering Services Department website.

Drawings are to include (but not be limited to):

- Plan /Profile information for all underground infrastructure including labels indicating pipe materials, pipe sizes and direction of flows;
- Plan / Profile information for all surface works including labels for surface features, pipe materials, pipe sizes and direction of flows; and
- General notes addressing all relevant conditions of as-built data included on drawings.

All drawing linework is to be continuous and coplanar with all lines snapped at points of intersection.

I.K.4. CONTACT DETAILS

For clarification or additional information, please contact the City of Whitehorse AutoCAD Technologist at:

Address: 187 Range Road, Whitehorse Yukon

Phone: (867) 668-8308