

Engineering Department - Land Development Division

Issue Date: **March 18, 2020**

Reference No. **5210-30 (Bulletin)**

AUTHORITY: GENERAL MANAGER, ENGINEERING

ATTENTION: LAND DEVELOPMENT CONSULTANTS

SUBJECT: UPDATE TO ENGINEERING DRAWING NOTES

EFFECTIVE: April 1st, 2020

Effective April 1, 2020, all land development drawing submissions shall be submitted with the updated 'Engineering Drawing Notes', which is attached to this document.

The Engineering Drawing Notes must appear on the drawing submissions as phrased.

Please note that Issued for Servicing Agreement drawings do not require update to the Engineering Drawing Notes.



Tommy Buchmann, P.Eng.
Development Services Manager

ENGINEERING DRAWING NOTES

The following notes for Engineering Drawings **must appear**, as phrased, on the drawings as applicable.

A. CITY GENERAL NOTES

- 1.** Construction is to be in accordance with the Subdivision and Development By-law, 1986, No. 8830, as amended, Highway and Traffic By-law, 1997, No. 13007, as amended, latest edition of the City of Surrey Design Criteria Manual, the Supplementary Specifications, the Supplementary Standard Drawings and the Master Municipal Construction Documents (MMCD).
- 2.** Traffic control is the responsibility of the Developer and the Developer's contractor, and both shall comply with the instructions outlined on the City Road and Right-of-Way Permit and Traffic Obstruction Permit.
- 3.** The Developer and the Developer's contractor shall be responsible for obtaining all City permits for work within the City road allowances and statutory rights of ways.
- 4.** Surrey's ISA monument(s) are to be protected and should they require raising or relocating, the Developer will notify the City Inspector at least three working days in advance of scheduling work affecting them.

An ISA monument shall be considered to be disturbed or destroyed, by the Developer, if the construction for the project:

- (1) Lowers the grade of the road at the location of an ISA monument(s),
- (2) Raises the grade of the road at the location of an ISA monument(s), or
- (3) Installs any underground utilities within 1.5 metre radius of the ISA monument(s).

The City will invoice the Developer a non-refundable flat rate fee per the Fee-Setting By-law, 2001, No. 14577, as amended, for each ISA monument disturbed or destroyed.

- 5.** All street, traffic, advisory signs, pavement markings and no-post guardrails required but not necessarily shown on the drawings, shall be installed at the Developer's cost.
- 6.** All temporary signage, including stop signs and stop bars, required to maintain safe vehicular and pedestrian access are the responsibility of the Developer to install and maintain.
- 7.** Residents and businesses affected by construction of this project must be provided written notice of the proposed start of construction within 2-10 business days.

8. The Developer shall obtain written authorization from a private property owner, with a copy to the City, prior to entry or works on private property. A copy of a signed letter of release shall be provided to the City indicating the private property has been restored to the owner's satisfaction.
9. The Developer shall facilitate and supply all necessary safety equipment as required by the City and Workers Compensation Act & OHS Regulations for the City to inspect the proposed works and services.
10. The Developer shall confirm that the works and services are not in conflict with existing underground utilities and above ground infrastructure prior to construction and shall notify the Engineer of Record of any conflicts.
11. The Developer shall abide by the Erosion and Sediment Control By-law, 2006, No. 16138, as amended.
12. The Developer shall abide by the Surrey Tree Protection Bylaw, 2006, No. 16100, as amended.

B. CITY ROAD WORK NOTES

1. The Developer shall employ a Professional Engineer with experience in Geotechnical Engineering for performance of in place testing during the preparation of the sub-grade and construction of the proposed road structure to verify the existing asphalt, road structure and sub-grade is adequate to be built upon.
2. Existing City and external Utility Company infrastructure (i.e. utility boxes, manholes, kiosks, etc.) must be adjusted to suit the proposed finished grade.
3. All unconsolidated, organic, and/or otherwise deleterious materials are to be excavated and removed from the roadway and utility trenches in the roadway as per the Geotechnical Engineer's report or as directed by the City.

C. CITY SANITARY SEWER AND STORM SEWER NOTES

1. All sanitary sewer service connections are to be a minimum 100 mm diameter, and all storm sewer service connections are to be a minimum 150 mm diameter.

D. CITY WATER WORKS NOTES

1. All new water mains, at tie-in points, are to be capped 2.0 m from the existing water main. The proposed water main is to be set at the line and grade to meet the existing water main. The Developer is to verify that there are no conflicts by exposing the zone between the proposed and existing main.

2. Pre-pressure testing and flushing shall be performed by the Developer. Tie-ins to existing water mains and final testing and chlorination of new mains is to be performed by the City at the Developer's cost.
3. All Residential domestic service connections will be 19 mm diameter unless otherwise specified.
4. Where 100 mm diameter pipe is used, it will be Ductile Iron (D.I.)

The following certification is to be placed on all water main drawings by the consultant as part of the drawing submission:

"I, _____, Professional Engineer, in good standing in and for the Province of British Columbia, hereby certify that the water main design on this drawing has been done in accordance with the Ministry of Health design criteria and that no construction will occur unless a permit has been **issued** by the Ministry of Health".

E. CITY STREET LIGHT NOTES

1. All luminaires shall have 7-pin receptacles and be approved per the Approved Materials List in the Supplementary Master Municipal Construction Documents.
2. All street light poles and service bases are to be hot-dipped galvanized and powder coated colour RAL 7040 grey unless noted otherwise.
3. See BC Hydro regulations for service connection details. The Developer is to arrange for exact service location(s) with BC Hydro prior to commencing construction.
4. It is the responsibility of the Developer to confirm the adequacy of the existing street light service, service base, conduit and conductors and make all necessary repairs to adequately complete all connections into the existing street light system.

The Developer is to install pole identification numbers as per Surrey standards as shown on the drawings.

5. The Developer is to ensure that all street light poles are a minimum 3.0m clear of all B.C. Hydro poles and overhead primary wires and 1.0m clear of all overhead secondary wires prior to installing bases.
6. All street lights are to be minimum 1.0m clear of all driveways.
7. Conductors inside street light poles shall be:
No.12 RW90 X-link (Cu)
No.12 RW90 Bond (Cu)

ENGINEER'S CERTIFICATION

I, _____, Professional Engineer, in good standing in and for the Province of British Columbia, hereby certify that the works as herein set out on the attached drawings have been designed to good engineering standards and in accordance with the latest edition of the City of Surrey Design Criteria Manual, the Supplementary Specifications, the Supplementary Standard Drawings and the Master Municipal Construction Documents (MMCD).

Exception(s) to the City Design Criteria Manual and Specifications:

DATE

SIGNATURE

The Engineering Department acknowledges the receipt of the attached plans which may proceed to construction provided payments, servicing agreement and right-of-way requirements are processed to the satisfaction of the General Manager, Engineering.

DATE

SIGNATURE