



## Design Checklist

For new Subdivision works for Fee Simple and Strata development lots within BMID, the following Design Requirements apply:

- Professional Design:** Detailed design of the water infrastructure is to be conducted under the review and supervision of a Professional Engineer registered and insured in the Province of British Columbia. Proof of registration and insurance may be requested.
- Drawing Reviews:** For review by BMID, one full size (A-1) set of drawings is required for review by BMID staff. Comments will be returned to the Developer or their agent. One set of review comments will be provided. Should more than one set of review comments be required, charges for BMID staff time (including benefits) will be assessed to the Developer.
- IHA Approval:** Approval must be obtained from the Interior Health Authority prior to construction of the watermain works of the Subdivision. A copy of the approval is to be provided to BMID.
- FUS Fire Demand Calculation:** An FUS fire calculation sheet must be provided by the Developer's Engineer for building development proposed for the subdivision or the specific building. The calculation sheet is to be filled out and sealed by the Developer's Engineer of Record. The number will be used by BMID engineer when reviewing the District's Computer model to verify that adequate fire flow exists for the development under Max. Day Demand conditions.
- Engineer Review of Development:** Prior to design completion, BMID will provide an Engineer's estimate of the fire flow demand available and the requirements for the developer for on-site and off-site water infrastructure. The Developer will pay costs for this service which will be delivered in the form of an Engineering Letter report. Scope and fee for this work is dependant on size and complexity of development. Cost for this will be charged to the Developer.
- Subdivision Works:** All subdivision watermain is to be designed in accordance with City of Kelowna Subdivision Bylaw No. 7900 and amendments. City website is located at : [www.city.kelowna.bc.ca](http://www.city.kelowna.bc.ca)
- Special Facility Designs:** For all booster stations, reservoirs, PRVs or vaults, BMID design requirements govern and are in addition to the City of Kelowna Subdivision Bylaw requirements. These design guidelines are set out at the BMID website at [www.bmid.ca](http://www.bmid.ca)
- Thrust Block Design:** For all watermains 300mm diameter and larger, all watermain thrust block designs are to be engineered by the developer's engineer complete with bearing surface area and/or joint restraint design submitted to BMID.
- Strata Developments:** All Strata developments are to meet the same requirements as fee simple subdivisions. All watermains on strata developments are to have a Statutory Right of Way in favour of BMID. BMID will own the watermains and service lines to the individual lot shut off locations which are to be located immediately behind the roadside curb.
- Special Requirements:** will be noted within the BMID advisory letter, dependant of the specific issues related to the development.