



## **WATER RESOURCES/WATER SERVICES** **SANITARY DEEP MANHOLE SPECIFICATIONS**

The City of Calgary is committed to strive for the highest workers' safety standards in the delivery of our infrastructures. Recent hazard assessment review on deep manholes has indicated that a larger barrel would provide better and effective access/egress, equipment set-up and use of retrieval capability to rescuers in the event of a medical emergency or injury. In view of this, Water Resources has revised the Sewer Standard Specifications (Section 402.06.01) and related details to include the following requirements:

- Sanitary manholes exceeding 8.0 meters in depth from finished rim elevation to lowest invert shall be constructed with a minimum of 1500mm inside diameter barrels with base and slab to match as shown on drawing 18A, except that the frame and cover shall be 900mm nominal diameter (Trojan TF-41, Norwood NF-41 or approved equal).
- If Type 1 and Type 1-S manholes are used on deep installations, a minimum of 1500mm x 1500mm inside dimension is required and shall have a 1500mm diameter barrels with slab top to match as shown in drawing 18A, except that the frame and cover shall be 900mm nominal diameter (Trojan TF-41, Norwood NF-41 or approved equal).

The changes will be in effect as of July 1, 2016, and applicable to new Preliminary Submissions and all newly proposed development projects. Construction Approvals on engineering drawings that are submitted prior to July 1<sup>st</sup> will not be affected by this revision.

For any questions related to the above, please contact May Cayanan, Team Lead, Specifications and Standards at (403) 268-3298 or at [may.cayanan@calgary.ca](mailto:may.cayanan@calgary.ca).