

1. SUBJECT CONNECTIONS TO COMBINED SEWERS – NON-RESIDENTIAL DEVELOPMENTS**2. DEFINITIONS**

A sanitary private drain connection (PDC) is a gravity pipe which connects the internal plumbing (sanitary flows) of a site to the municipal sanitary sewer.

A storm private drain connection (PDC) is a gravity pipe, which connects the stormwater drainage systems (catchbasins, parking lots, downspouts, etc.) of a site to the municipal storm sewer.

A combined sewer is a single mainline sewer located within the right-of-way or in an easement in favour of the City, which by design, conveys both sanitary and storm flows.

3. DRAWINGS

Connections to Combined Sewers – Non-Residential Developments
(Sketch *Attached*)

AS-313 – Private Drain Details (Single)

AS-318 – Wye Connections

4. BEST PRACTICE

Storm and sanitary PDC's may be permitted to connect to a combined sewer where:

1. The only sewers available to service the site are combined sewers
2. The applicant is using an existing connection to the combined sewer to service an addition to the site
3. There is evidence that the design drainage areas for the site correspond to the combined sewer
4. Where at the discretion of the City Engineer, the only available separated sewers are:
 - a) Under an existing roadway which is in new or good condition, and creating an opening to tap the separated sewers is not in the best interests of the City,
 - b) Of considerable depth (greater than 5.5m (18 feet) deep) and the opening created to access the sewer for a tap would be detrimental to the infrastructure, or specialized equipment is required,
 - c) Trunk sewers where connections to the sewer are discouraged.

A sampling manhole shall be installed at the sanitary PDC at the property line for any non-residential site to the satisfaction of the City Engineer.

The storm PDC may be connected to the sanitary PDC by way of a wye connection within the right-of-way as shown on the attached drawing. This will ensure the provision for the future separation of the connections at the property line. Where the length of the wyed section, projected to the property line, is greater than 1.5m (5 ft.), the applicant may be required to enter into an Encroachment Agreement for the connection.

The storm PDC shall not connect to the sanitary sampling manhole.

Installing of a backwater valve or similar apparatus is recommended on any connection to the municipal combined sewer, as a precaution and to mitigate possible damage from surcharge of the sewer, subject to compliance with the Building Code.

5. RELATED BEST PRACTICES

Sanitary Sampling Manholes – BP1.1.2

6. RELATED CITY SPECIFICATIONS

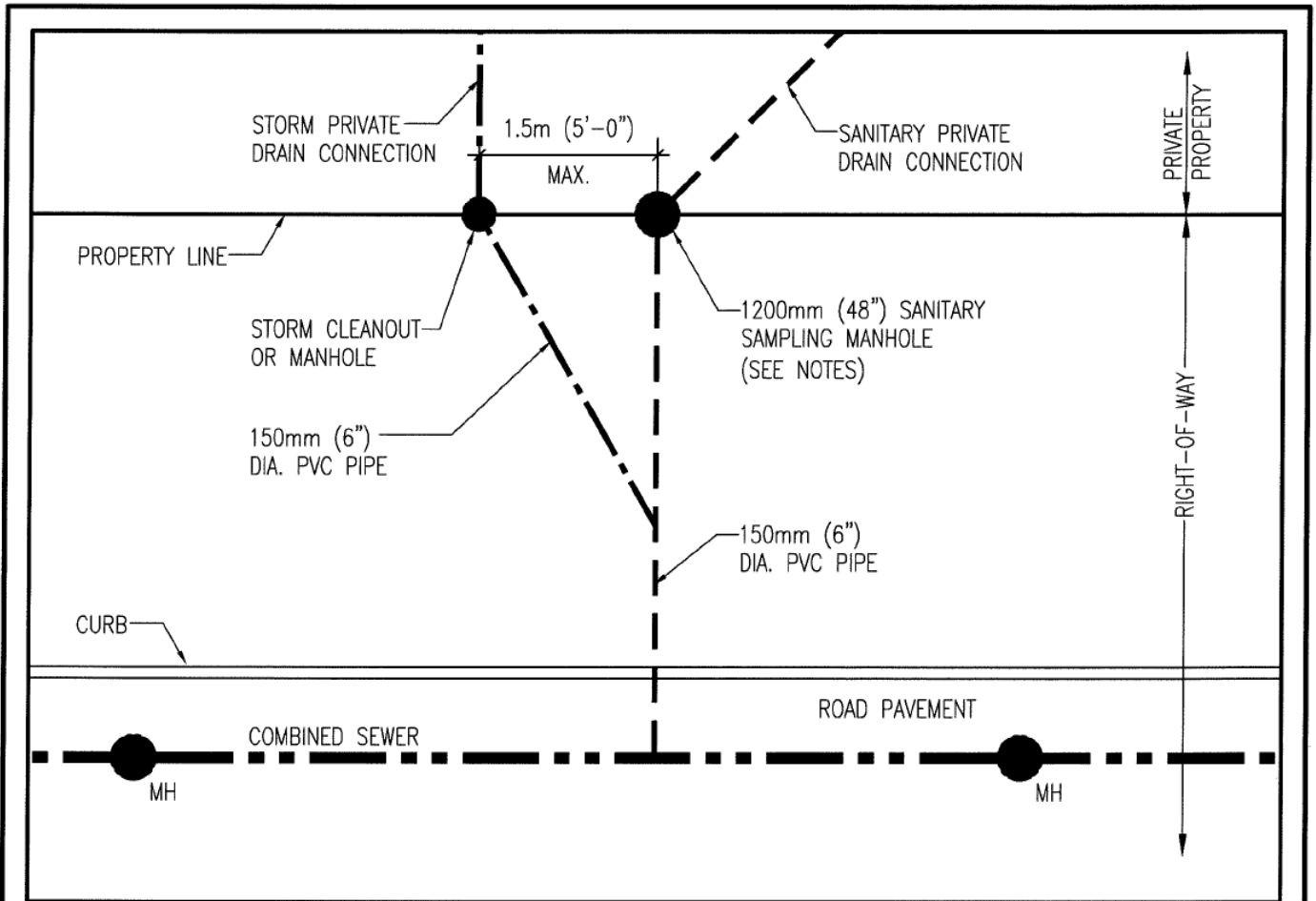
S-1 – Sewers

S-2 – Manholes, Catchbasins, and Adjustments

Mario Sonego
City Engineer or Designate

June 21, 2012
Date

Attachment – Sketch



NOTES:

1. WYE CONNECTION AS PER CITY OF WINDSOR STANDARD DRAWING AS-318.
2. SANITARY SAMPLING MANHOLE TO BE INSTALLED AT THE PROPERTY LINE ON ALL SANITARY PRIVATE DRAIN CONNECTIONS.
3. SANITARY PRIVATE DRAIN CONNECTION AS PER CITY OF WINDSOR STANDARD DRAWING AS-313.
4. THE WYE'D SECTION OF THE CONNECTION SHALL BE LOCATED WITHIN THE BOULEVARD BETWEEN THE EDGE OF PAVEMENT AND THE PROPERTY LINE AS SHOWN.
5. FOR SAMPLING MANHOLE DETAILS, SEE THE CITY OF WINDSOR ENGINEERING BEST PRACTICE FOR SANITARY SAMPLING MANHOLES.
6. WHERE POSSIBLE, THE WYE SECTION SHALL NOT BE LOCATED BENEATH A SIDEWALK, DRIVEWAY OF OTHER HARD SURFACE.

CITY OF WINDSOR ENGINEERING DEPARTMENT		
CONNECTIONS TO COMBINED SEWERS NON-RESIDENTIAL DEVELOPMENTS		
DR'N BY: J. BARLOW	CH'KD BY: P.J.U., S.S.	DATE: DEC 2010