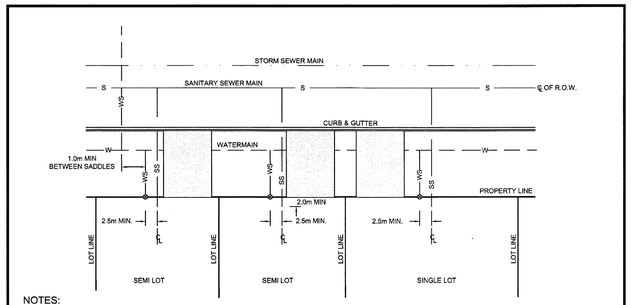
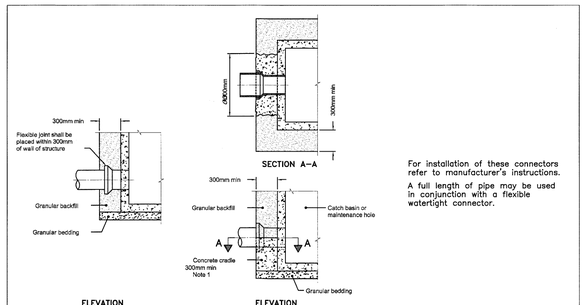
3160 – DET2



NOTES:

1. SANITARY SERVICES ARE TO BE BROUGHT 2.0m MIN. PAST PROPERTY LINE AND PROPERLY MARKED WITH A 50x100mm STAKE EXTENDING FROM THE INVERT OF THE SERVICE TO GROUND LEVEL. WATER SERVICES ARE TO BE BROUGHT TO PROPERTY LINE, TERMINATED WITH A CURB STOP AND PROPERLY MARKED WITH A 50 X 100mm STAKE EXTENDING FROM THE INVERT OF SERVICE TO GROUND LEVEL. (REFER TO SSS-48) SANITARY SERVICES TO BE MARKED GREEN AND WATER SERVICES TO BE MARKED BLUE.
2. SANITARY SERVICE TO BE LOCATED AT THE CENTRE LINE OF EACH LOT/UNIT.
3. WATER SERVICE TO BE LOCATED 2.5m OFFSET NORTH OR WEST OF THE SANITARY SERVICE TO AVOID DRIVEWAY APPROACHES.
4. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

CITY OF BARRIE STANDARD	NO.	REVISION	APR'D	DATE
STANDARD RESIDENTIAL SERVICE LOCATIONS	4.	DRIVEWAYS ADDED	J.S.	2005.01.11
	3.	REVISED LINETYPE AND CENTERLINE OF LOTS	B.R.	2002.02.08
	2.	SAN. SERVICE 2.0m MIN PAST PR.	K.C.	2000.10.20
	1.	NOTE 1, 2, AND 3 CHANGED	K.C.	2000.03.20
APR'D: R.G.N. DATE: 92.05.15 DRAWN: L.A.J. SCALE: N.T.S.				BSD-25



For installation of these connectors refer to manufacturer's instructions.

A full length of pipe may be used in conjunction with a flexible watertight connector.

FLEXIBLE, WATERTIGHT CONNECTOR RIGID AND FLEXIBLE PIPE

NOTES:

1 Pipe shall be supported with concrete or unshrinkable fill to the first pipe joint.

A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2016	Rev 4
SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE		OPSD 708.020

GENERAL NOTES

1. DRAWINGS

A. ALL DRAWINGS SHALL BE PRODUCED IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARDS & SYMBOLS FOR PLAN & PROFILE DRAWINGS, GENERAL SERVICE PLANS AND LOT GRADING PLANS.

2. MEASUREMENTS

A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.

3. GENERAL

A. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARD DRAWINGS (BSD) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).

B. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY CITY OF BARRIE STANDARD DRAWINGS (BSD) AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).

C. LOCATION OF EXISTING SERVICES ARE NOT GUARANTEED. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.

D. A ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE ROADS AND PARKS OPERATIONS BRANCH PRIOR TO THE COMMENCEMENT OF WORK WITHIN ANY CITY RIGHT-OF-WAY.

E. A SITE ALTERATION PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY EARTH WORKS ON THE SITE.

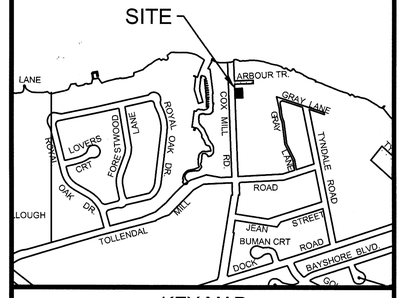
F. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

G. GRANULAR MATERIAL , USED FOR BACKFILL , SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.

H. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE CITY ENGINEERING DEPARTMENT.

I. ALL SILT CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH. SUBJECT TO APPROVAL BY THE CITY ENGINEERING DEPARTMENT.

CITY OF BARRIE STANDARD	NO.	REVISION	APR'D	DATE
GENERAL NOTES	3.	3. NOTE: 3.E. REVISED & 3.I. ADDED	J.S.	05.01.10
	2.	3.D. - "ENGINEERING DEPARTMENT"	B.R.	02.10.28
	1.	3.E. TOPSOIL PERMIT		01.12.06
APR'D: R.G.N. DATE: 92.05.15 DRAWN: L.A.J. SCALE: N.T.S.				BSD-N6

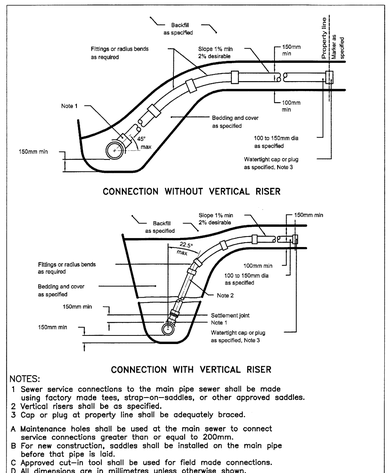


KEY MAP
N.T.S.

LEGEND

1. GRADE AND CROSSFALL ADJUSTEMENT OF MAINTENANCE HOLE AND CATCHBASIN FRAMES WILL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE.
2. ADJUSTMENT UNITS MUST BE CERTIFIED TO MEET ALL PERTINENT OPS, CSA, ASTM AND MTO-OSM LISTS, OR OTHER INDUSTRY GUIDELINES FOR MATERIALS, PERFORMANCE AND USE AS APPLICABLE.
3. ADJUSTMENT UNITS AND JOINTS WILL BE SEALED AND OR PARGED IN COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS AND GUIDELINES
4. MORTAR IS USED FOR LEVELING OF PRECAST UNITS ONLY. THE THICKNESS OF MORTAR WILL BE 10mm TO FILL ALL VOIDS CREATED BY IRREGULARITIES IN THE PRECAST UNITS TO ENSURE AN EVEN SURFACE ONLY.

Barrie STANDARD DETAIL	GENERAL NOTES ROADWORKS	REV No. 1	DATE: OCT 2017 SCALE: N.T.S.	APPROVED DATE: Oct 28/17 DIRECTOR OF ENGINEERING
		BSD-N2		

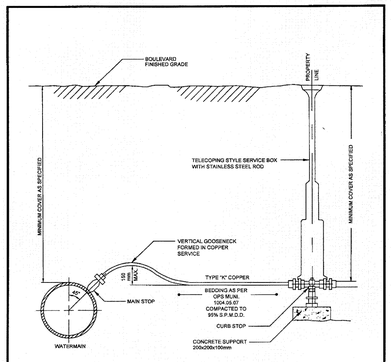


NOTES:

1 Sewer service connections to the main pipe sewer shall be made using factory made tees, strap–on–saddles, or other approved saddles.
2 Vertical risers shall be as specified.
3 Cap or plug at property line shall be adequately braced.

A Maintenance holes shall be used at the main sewer to connect service connections greater than or equal to 200mm.
B For new construction, saddles shall be installed on the main pipe before that pipe is laid.
C Approved cut–in tool shall be used for field mode connections.
D All dimensions are in millimetres unless otherwise shown.

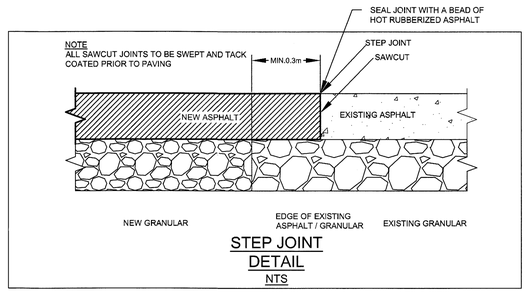
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2016	Rev 3
SEWER SERVICE CONNECTIONS FOR MAIN PIPE SEWER		OPSD 1006.010



NOTES:

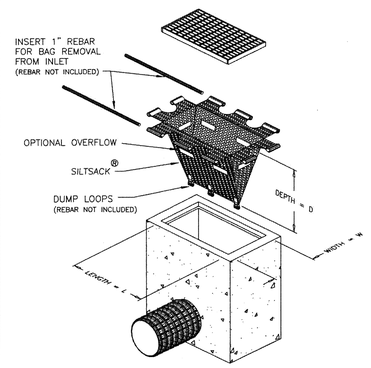
1. NO COUPLINGS WILL BE PERMITTED BETWEEN MAIN STOP AND CURB STOP.
2. ALL WATER SERVICES TO BE INSTALLED AT RIGHT ANGLE TO THE WATERMAIN.
3. CONNECTIONS TO PVC MAINS TO BE MADE USING APPROVED SERVICE SADDLES.
4. TAPPING TO BE AT 2 OR 10 O'CLOCK POSITION ONLY.
5. WATERMAIN TO BE DRILLED AND TAPPED WITH AWWA INLET THREAD
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

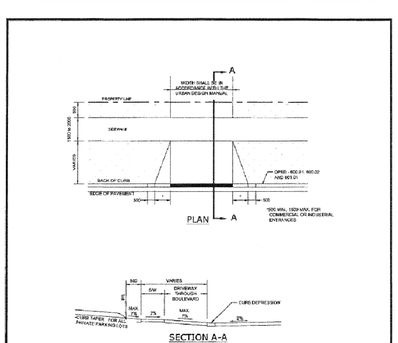
City of BARRIE STANDARD DETAIL	COPPER WATER SERVICE CONNECTION DETAIL 19mm AND 25mm DIAMETER SIZES	REV No. 1	DATE: FEB 2015 SCALE: N.T.S.	APPROVED DATE: 6/Feb/2015 DIRECTOR OF ENGINEERING
		BSD-502 (PREVIOUSLY BSD-48)		



STEP JOINT DETAIL
NTS

Typical Siltsack® Construction - Type B





NOTES:

1. CROSSFALL OF SIDEWALK 2.0% UNLESS OTHERWISE APPROVED.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
3. UPON THE APPROVAL BY THE DIRECTOR OF ENGINEERING, STEEPER SLOPES MAY BE CONSIDERED WHEN THE BOULEVARD WIDTH IS LESS THAN 6.4M OR DURING ROAD RECONSTRUCTION.
4. REVERSE GRADES ARE NOT APPROVED.

Barrie STANDARD DETAIL	DRIVEWAY AND ENTRANCE DETAIL	REV No. 1	DATE: OCT 2017 SCALE: N.T.S.	APPROVED DATE: Oct 28/17 DIRECTOR OF ENGINEERING
		BSD-319		

SCHEDULE OF REVISIONS

NO.	DATE	DESCRIPTION	CHECKED

JANKOV - ZBLA

403 COX MILL ROAD
CITY OF BARRIE

DETAILS

PROJECT NO. 18 - 3160	DRWG NO. 3160 - DET2
DATE: SEPTEMBER 2018	SCALE: N.T.S.
DRAWN: MJB	CHECKED: APPROVED:

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