

Area under construction

End View

Water

Barrier

End View

New under protection

PERSPECTIVE VIEW

Direction of flow

2.3m max. Sp.

Main run 40m max.

PLAN

500mm min. of concrete

Toe

Slope

Original ground

500mm min.

Direction of flow

JOINT DETAIL

NOTE:
A. All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

LIGHT-DUTY
SILT FENCE BARRIER

Nov 2015

2

OPSD 219.110

[illegible][illegible]

1. Right angle bend

2. Tee connection

3. Three way junction

4. Four way junction

5. Straight through

6. Dead end

7. Section

8. Section

MAXIMUM SIZE HOLE IN THE WALL IN PRECAST REINFORCED CONCRETE SECTIONS

Maintenance Hole	Type				Section
	No. 1-4	No. 5 and 6	No. 8	No. 7	
1200	700	660	780	700	860
1500	960	920	860	960	1210
1800	1220	1180	1220	1220	1480
2400	1680	1620	1760	1680	2020
3000	1930	1850	2300	1930	2460
3600	2470	2385	2730	2470	3085

NOTES:

- 1) Spacing shall be maintained from the outlet hole opening for type of bending.
- 2) Concrete for bending shall be 30Mpa.
- 3) When bending is "hot-bend", it shall be done with four flanges, channel shall be given shall lower flange.
- 4) Bending angle and height shall be as specified.
- 5) Reinforcement shall be provided as per design.
- 6) Reinforcement shall be provided as per design.
- 7) Reinforcement shall be provided as per design.
- 8) Reinforcement shall be provided as per design.

FIG 1

PIPE IN SUPPORTED EXCAVATION

Finished surface

Subgrade

Permanence of temporary support system

150mm min. type 1

300mm min.

TYPE 1 OR 2 SOIL

TYPE 3 SOIL

PIPE IN UNSUPPORTED EXCAVATION

Finished surface

Subgrade

300mm min.

PIPE IN SUPPORTED EXCAVATION

Finished surface

Subgrade

Clearance See table, Type

CLEARANCE TABLE

	Clearance min.	Clearance max.
Type 1 or 2	500 or less	500
Type 3	500	500

LEGEND:

1 Inside diameter

NOTES:

- Height of fill is measured from the finished surface to top of pipe.
- The pipe shall be compacted and shored to resist the bottom of the pipe.
- Pipe outlet frost treatment shall be according to OPSD 803.030 and 803.031.
- Condition of excavation is symmetrical about centreline of pipe.
- Granular material placed in the haunch area shall be compacted prior to placing and compacting the remainder of the embankment material.
- Soil Types are defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
- All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION

Nov 2014 Rev 3

OPSD 802.010

The drawing illustrates the cross-section of a flexible pipe installation in a rock excavation. It is divided into four main sections: PIPE IN SUPPORTED EXCAVATION, PIPE IN UNSUPPORTED EXCAVATION, PIPE IN UNSUPPORTED EXCAVATION, and PIPE IN SUPPORTED EXCAVATION. The central section shows the pipe (D) embedded in a rock mass (R) with a bedding grade (B) and a subgrade (S). The pipe is surrounded by backfill material (P) and is protected by a rock blanket (R) and a rock blanket (R). The drawing includes dimensions for the pipe diameter (D), bedding grade (B), subgrade (S), and rock blanket (R). A north arrow is located in the top right corner.

ORIGINAL ROCK < 1200mm ABOVE TRENCH BOTTOM

ORIGINAL ROCK ≥ 1200mm ABOVE TRENCH BOTTOM

NOTES:

- Height of fill is measured from the finished surface to top of pipe.
- The pipe shall be supported and shaped to receive the bottom of the pipe.
- Pipe cut back frost treatment shall be according to OPSD 803.030 and 803.031.
- Condition of excavation is symmetrical about centreline of pipe.
- Embedment material shall be exposed to non-woven geotextile when specified.
- Granular material placed in the haunch area shall be compacted prior to placing and compacting the remainder of the embedment material.
- Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
- Fractured rock shall be treated as Type 1 soil.
- All dimensions are in metres unless otherwise shown.

LEGEND:

- ϕ = inside diameter
- * = Type 1 or 2 soil
- ** = Type 3 soil
- *** = Type 4 soil

CLEARANCE TABLE

Inside Diameter	Clearance
100 or less	300
Over 100	350
Over 200	500
Over 300	500

ONTARIO PROVINCIAL STANDARD DRAWING

Nov 2014 Rev 3

FLEXIBLE PIPE EMBEDMENT AND BACKFILL ROCK EXCAVATION

OPSD 802.013

The drawing consists of two main views: a top view (plan) and a side view (elevation).

Top View: Shows a square catch basin with a central grate. Dimensions include 1500mm for the overall width and depth, and 1000mm for the grate area. Notes specify 'EXPANSION JOINT' on the top and bottom edges, 'FACED CEMENT' on the left and right edges, and '80 UNLESS SPECIFIED OTHERWISE' for the grate material. A note 'DELIVERED WITH 100mm AIR LAY' is also present.

Side View: Shows the cross-section of the basin. It includes a 'CONCRETE B-SUPPORT' on the left, a 'FACED CEMENT' layer, a 'FACED CURB' on the right, and an 'ADJUSTMENT DETAIL' at the bottom right. A 'CATCH-BASIN' is labeled in the center. Dimensions include 1500mm for the overall width, 1000mm for the grate area, and 1000mm for the curb height. Notes specify 'EXPANSION JOINT' on the left and right edges, 'FACED CEMENT' on the top and bottom edges, and '80 UNLESS SPECIFIED OTHERWISE' for the grate material.

Notes:

1. USE OF SCHEDULE 40 PIPES IS TO BE PLACED AT A 10% GRADE OR $\frac{1}{8}$ " DOWN.
2. ALL PIPES TO BE 1500mm LONG AND TO BE 1000mm DIA. WITH 100mm AIR LAY.
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90. ALL PIPES TO BE 1

FRAME PLAN

PLAN

DETAIL 1

SECTION C-C

SECTION A-A

SECTION B-B

SECTION D-D - SOLID ALTERNATE

SECTION D-D - PERFORATED

NOTES:

1. **SHOULDER BOLTS AND WELDS REQUIRED:**
2. **ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.**
3. **FOR WELD CONSTRUCTION WELDS SHOWN IMPERFECT WELDS ARE SHOWN.**
4. **PERFORATED COVER DESIGN DIMENSIONS NOT EXACTLY THE SAME AS SHOWN WELD.**
5. **ALTERNATE COVER COLOR TO HAVE EYE 25mm Hx12mm W APPROVED PLUG.**

**HEAVY DUTY "FISH" TYPE
ROUND CATCH BASIN COVER
(MODIFIED OPSD-400.07)**

DATE: 01/01/2010
BY: 508
DATE: 01/01/2010
BY: 508

[illegible][illegible]

Diagram illustrating the installation of a rubber sealant around the bell end of a pipe for a rigid main sewer pipe using a bell end insert method. The diagram shows a cross-section of the pipe joint with the sealant applied around the bell end. Labels include: Bell, Pipe, Sealant, Rebar and Cover as Specified, and Grout Filling Connection. A note indicates that the sealant should be applied in a specific manner to ensure a tight water-tight connection.

NOTE:

1. JOINTING IN PIPE SHALL BE A RIGID MACHINE CUT JOINT.
2. BELLENT TO CORRESPOND TO THE BELL END OF AN APPROVED BRUNNEN PIPE. LENGTH TO BELLENT TO EXCEED THAT OF THE INSERT PIPE BY THE LENGTH OF THE PIPE.
3. WHEN APPROVED WATER TIGHT SEALANT AROUND THE SPIGOT PORTION OF THE BELL END OF THE INSERT PIPE. BELLENT TO ENSURE A TIGHT WATER TIGHT CONNECTION THAT WILL HOLD THE BELL IN POSITION.
4. GROUT AROUND THE BELL END TO PROTECT THE SEALANT AND SUPPORT THE BELL.
5. ALL OTHER NOTES OF S11 APPLY.
6. SEE S86.2.5 FOR APPROVED SEALANT PRODUCTS.

SEWER CONNECTIONS
FOR RIGID MAIN SEWER PIPE
USING BELL END INSERT METHOD

N.T.S.	
DATE	MARCH 2011
DWG.	
REV.	
DATE	01-12

FOUNDATION DRAIN

CONCRETE FOOTING

CONCRETE FOOTING WALL

CONCRETE FOOTING

STORM CLEANOUT

STORM BACKWATER VALVE

COMPONENT GENERALLY LOCATED ALONG FRONT SIDE OF HOUSE

STORM CLEANOUT IF NOT DISCONNECTED CLEANLY UNIT

CONCRETE BACKWATER VALVE

MAKE SURE VALVE COVER IS PROPERLY SECURED FOR HANDICAPPED SPECIFICATIONS

FLOW GOES THROUGH TO THE MARK GIVEN IN THE STREET

FLOOR DRAIN

FLOOR DRAIN TO STORM DRAIN

FLAT

DETAILING

STORM BACKWATER VALVE

NOTES:

1. BACKWATER VALVE, CLEANOUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 20" MIN. BELOW OF THE FINISHED FLOORING, THERE TO BE A MINIMUM OF 18" OF PEAKY FLOOR TO THE VALVE. COMPONENTS IN THE FUTURE VERIFY WORKING TO MINIMIZE THE FOOTING DRAINAGE THROUGH THE PROCESS

2. VERIFY THE BLOCK AND THE BACKWATER VALVE AND THE FLOOR MARK IS NOT MISTAKEN.

N.T.S.

DATE	DATE
DRAWN	CHECKED
DESIGNED	APPROVED

SCALE: 1/4" = 1'-0"

[illegible]

COMPONENTS GENERALLY LOCATED
ALONG FRONT BERT OF HOUSE

FOUNDATION DRAIN

CONCRETE FOOTING

CONCRETE FOUNDATION WALL

CONCRETE FOOTING

SEW. INLET

CLEANOUT

CLEANOUT

FLAP

SEWER BACKWATER VALVE

SEWER BACKWATER VALVE

SECTION A

CONCRETE FOOTING IS 30

MADE TO FIT WALL CURB

WATER FLOW

NORMALLY OPEN FLAP

SEWER FLOW

SEWER COVER TO STREET

SECTION B

SANITARY BACKWATER VALVE

NOTES

1. BACKWATER VALVE, CLEANOUTS AND ANY OTHER DEVICES MUST BE INSTALLED A MINIMUM OF 30mm ABOVE THE BASEMENT FLOOR LEVEL IN TO ENSURE PROPER DISCHARGE FROM TO RELOCATE THESE DEVICES FROM THEIR ORIGINAL LOCATION TO THE RECOMMENDED LOCATION.

2. JOINTS BETWEEN CLEANOUT AND THE BACKWATER VALVE AND THE FLOOR JOINT SHALL BE SEALED.

N.T.S.

DATE	REVISED
DATE	REVISED
DATE	REVISED

Ottawa

SANITARY BACKWATER VALVE
INSTALLATION TYPE 2

[illegible][illegible]

The technical drawing illustrates the Silt Trap Sack in two views: DETAILS and SECTION.

DETAILS: This view shows the top-down layout of the sack. It features a central 'Silt Trap Sack' with a 'Retrieval system' at the top right. An 'Adjustable wire frame' is shown on the left, and an 'Overflow bypass' is indicated on the right side.

SECTION: This view shows a cross-section of the sack. It includes a 'Drainage grate' at the top, followed by a 'Grate frame'. Below the grate, 'Sediment and debris' are shown being trapped. 'Filtered water' is shown exiting from the bottom. 'Overflow bypass ports' are located on the right side. The 'Silt Trap Sack beneath drainage grate' is also labeled.

NOTES:

1. Size and shape of the silt trap sack to fit the storm structure. It will service (retention or round).
2. The silt trap sack assembly has a built-in high-flow relief system (overflow bypasses).
3. The silt trap sack assembly must allow removal without pulling the collected material.
4. Empty silt trap sack and dispose of sediment and debris before the sack is full.
5. Ensure the silt trap sack is properly set up and full in the storm structure. If sediment is pulled into the storm structure, remove the spilled material by suction hose or other approved method.
6. Provide protection for catch basin hoses (Wettable, 2nd turner, and for foamy).

SILT SACK DETAIL

PARSONS

D1

Diagram labels: SURFACE, BACKFILL, STYROFOAM HI, BEDDING MATERIAL, H = DEPTH OF COVER, W = INSULATION WIDTH, D = PIPE DIAMETER.

Legend:

- $H \geq 1000$: H=40 (276 KPa)
- $H < 1000$: H=60 (414 KPa)

INSULATION MINIMUM WIDTH (W)									
	D	150	200	250	300	400	500	600	INSULATION THICKNESS
75	750	2250	2300	2350	2400	2500	2600	2700	100
1000	1750	1800	1850	1900	2000	2100	2200		90
1250	1250	1300	1350	1400	1500	1600	1700		80
1500	750	800	850	900	1000	1100	1200		70
1750	600	600	600	600	600	600	700		60

ALL DIMENSIONS IN MILLIMETERS

Thermal Insulation For Sewer in Shallow Trenches

PARSONS

D2

[illegible][illegible]

FIG. 10. PEDESTRIAN RAMP AND PARALLEL CURVE DETAILS

SECTION THROUGH RAMP (SEE NOTE 3)
SLOPE FOR MAXIMUM 2-6%
CONCRETE
REINFORCED WITH SECTIONED WIRE MESH

SECTION A - B

DETAILS:

1. CURB: 300 x 300 mm CONCRETE REINFORCED WITH STEEL
2. RAMP: 3.7m RADIUS OF CURVE SLOPE 2-6% CONCRETE REINFORCED WITH SECTIONED WIRE MESH
3. ALL DIMENSIONS ARE IN MILLIMETERS
4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED
5. CONSTRUCTION SHALL BE TO THE SATISFACTION OF THE ENGINEER
6. RAMP SHALL BE SLOPED AT 2-6% TO ADJACENT SIDEWALK
7. RAMP SHALL BE SLOPED AT 2-6% TO ADJACENT SIDEWALK
8. RAMP SHALL BE SLOPED AT 2-6% TO ADJACENT SIDEWALK
9. RAMP SHALL BE SLOPED AT 2-6% TO ADJACENT SIDEWALK
10. RAMP SHALL BE SLOPED AT 2-6% TO ADJACENT SIDEWALK

[illegible]

CURB RETURN AT A PRIVATE OF COMMERCIAL ENTRANCE - UNCONTROLLED INTERSECTION

CURB RETURN AT A PRIVATE OF COMMERCIAL ENTRANCE WITH BOLLARDS - UNCONTROLLED INTERSECTION

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. CURB RETURN SET OUT TO BE AS SHOWN.
3. A SUFFICIENT DETAILS SIZE AND SET.
4. MAXIMUM ALLOWABLE SPACES BETWEEN APPROACH BOLLARD.

UNCONTROLLED INTERSECTION MEANS AN ENTRANCE NOT LOCATED AT A TRAFFIC SIGNAL OR ALL-WAY STOP CONTROL.

DATE: MM/DD/YYYY
 DESIGNED BY: MWD/2017
 DRAWING NO.: SC-71

[illegible]

The logo for Zeidler Neuf Architecture is displayed. It features a red square with a white diagonal line on the left. To its right is the word "zeidler" in a large, black, lowercase sans-serif font. Below "zeidler" is the address "600-158 Sterling Road" and "Toronto, ON M6R 2B7". To the right of the address is the phone number "T +1 416 596 8300" and "ZEIDLER.COM". Below the address and phone number is the word "NEUF" in a large, red, uppercase sans-serif font, followed by "ARCHITECTE(S)" in a smaller, red, uppercase sans-serif font. To the right of "NEUF" is a red square logo with a white geometric design inside. Below "NEUF" is the address "406-47 Clarence Street" and "Ottawa, ON K1N 9K1". To the right of the address is the phone number "T +1 613 234 2274" and "NEUFARCHITECTES.COM".

CF Cadillac
Fairview

 **PARSONS**

NOTE

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CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB. ANY DISCREPANCY OR CONTRADICTORY INFORMATION WITHIN THIS SET OF DRAWINGS AND / OR OTHER CONSULTANTS' DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.



5	FINAL ISSUE TO SITE PLAN CONTROL	2022-12-09
4	FINAL ISSUE TO SITE PLAN CONTROL	2022-10-14
3	FINAL ISSUE TO SITE PLAN CONTROL	2022-08-24
2	RE-ISSUED TO SITE PLAN CONTROL	2022-04-29
1	ISSUED TO SITE PLAN CONTROL	2021-10-29

NO.	ISSUE/ REVISION	DATE
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NOT FOR CONSTRUCTION

PROJECT

CF RIDEAU CENTRE REGISTRY SITE

PROJECT ADDRESS

70 NICOLAS ST.
OTTAWA, ON

TITLE

DETAILS

PROJECT NO.	DRAWN	CHECKED
477846	JN	SM

DRAWING NO. D0718624

SPA-C102



#18624