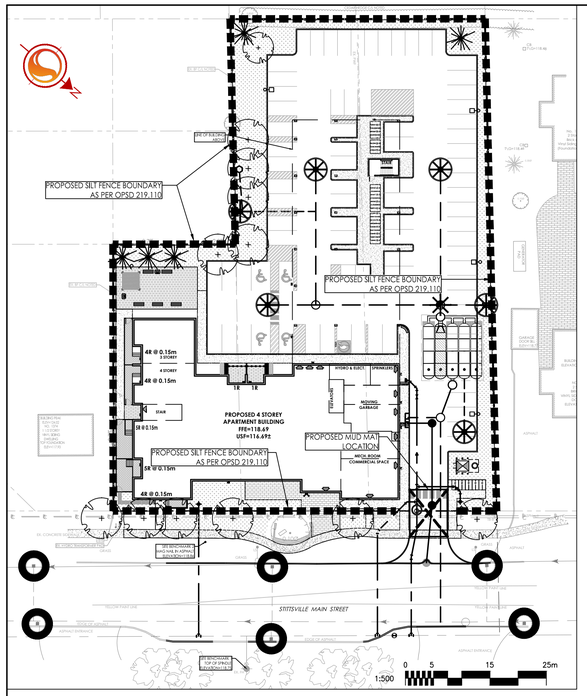
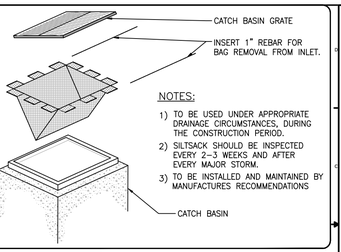
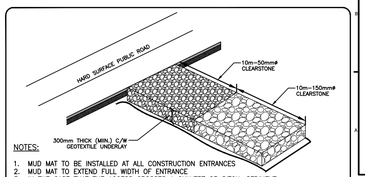




NOTES:

1) TO BE USED UNDER APPROPRIATE DRAINAGE CIRCUMSTANCES, DURING THE CONSTRUCTION PERIOD.
2) SILTSACK SHOULD BE INSPECTED EVERY 2-3 WEEKS AND AFTER EVERY MAJOR STORM.
3) TO BE INSTALLED AND MAINTAINED BY MANUFACTURES RECOMMENDATIONS

ROADSIDE CATCH BASIN PROTECTION DETAIL: TERRAFIX SILTSACK
SCALE: N.T.S.



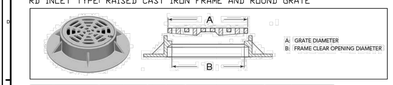
NOTES:

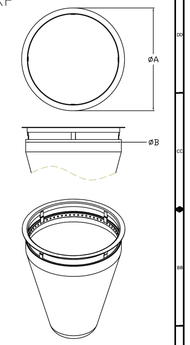
1. MUD MAT TO BE INSTALLED AT ALL CONSTRUCTION ENTRANCES
2. MUD MAT TO EXTEND FULL WIDTH OF ENTRANCE
3. IN THE CASE THAT THE ACCESS CROSSES A CULVERT OR DITCH, SEDIMENT FENCING SHOULD BE INSTALLED ALONG THE EDGES OF THE ACCESS TO PREVENT SEDIMENT FROM BEING WASHED AWAY WITH RUNOFF.
4. THE GRANULAR MATERIAL WILL REQUIRE PERIODIC REPLACEMENT AS IT BECOMES CONTAMINATED BY VEHICLE TRAFFIC.
5. SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY.
6. STORM INLETS BOTH ON AND IN THE PROXIMITY OF THE SITE SHALL BE PROTECTED WITH INLET CONTROL MEASURES PRIOR TO ROAD CLEANING ACTIVITIES.

MUD MAT ENTRANCE DETAIL
SCALE: N.T.S.

FLEXSTORM P/Ns 62MHDRFX & 62MHDRFXP

RD INLET TYPE: RAISED CAST IRON FRAME AND ROUND GRATE





Pure Frame with PX Bag		Field Inlet Dimensions		Flexstorm Framing Dims		Flexstorm Ratings (lbs)			Pure Frame with PXr Bag	
		A	B	B1	A1	Bag Capacity (ft³)	FC/PC=Floor Rate (CFS)	Bypass (CFS)		
ADS P/N	Flexstorm Item Code								ADS P/N	Flexstorm Item Code
62MHDR15	P-RD-245-215-FX	24	21.75	27.5	25.5	0.6	1.4	2.3	62MHDRFXP	P-RD-245-215-FXP
62MHDR21	P-RD-250-220-FX	25.25	20	27.5	25.5	0.7	1.5	2.5	62MHDRFXP	P-RD-250-220-FXP
62MHDR25	P-RD-254-225-FX	25.75	20	27.5	25.5	0.8	1.4	2.3	62MHDRFXP	P-RD-254-225-FXP
62MHDR27	P-RD-256-227-FX	27.67	20	27.5	25.5	0.8	1.4	2.3	62MHDRFXP	P-RD-256-227-FXP
62MHDR31	P-RD-260-230-FX	30	20	27.5	25.5	0.9	1.4	2.3	62MHDRFXP	P-RD-260-230-FXP
62MHDR31	P-RD-260-231-FX	30.75	20.125	27.5	25.5	0.9	1.4	2.3	62MHDRFXP	P-RD-260-231-FXP
62MHDR35	P-RD-264-235-FX	31.75	20.25	27.5	25.5	0.9	1.4	2.3	62MHDRFXP	P-RD-264-235-FXP
62MHDR37	P-RD-266-237-FX	33.67	20.375	27.5	25.5	0.9	1.4	2.3	62MHDRFXP	P-RD-266-237-FXP
62MHDR41	P-RD-270-241-FX	36	20.5	27.5	25.5	1.0	1.5	2.7	62MHDRFXP	P-RD-270-241-FXP
62MHDR45	P-RD-274-245-FX	36	21.5	27.5	25.5	1.0	1.5	2.7	62MHDRFXP	P-RD-274-245-FXP
62MHDR47	P-RD-276-247-FX	36.75	22.125	27.5	25.5	1.0	1.5	2.7	62MHDRFXP	P-RD-276-247-FXP
62MHDR51	P-RD-280-251-FX	38	23	27.5	25.5	1.0	1.5	2.7	62MHDRFXP	P-RD-280-251-FXP
62MHDR53	P-RD-282-253-FX	38.25	23.125	27.5	25.5	1.0	1.5	2.7	62MHDRFXP	P-RD-282-253-FXP
62MHDR57	P-RD-286-257-FX	38.75	23.25	27.5	25.5	0.9	1.5	2.7	62MHDRFXP	P-RD-286-257-FXP

NOTES:

1. RATINGS SHOWN ARE FOR STANDARD 22" BAG DEPTH; "SHORT" 12" DEPTH BAGS ARE AVAILABLE WITH -S SUFFIX; RATINGS REDUCED BY ~50%.
2. THE FOLLOWING REQUIRES ADDITIONAL REVIEW
-GRATES WITH EXTENDED BOTTOMS
-ANY OBSTRUCTED INLET OPENINGS

FLEXSTORM PURE

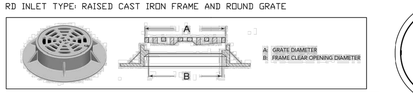
ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 207-8655 PH (630) 355-3477 FX INFO@INLETFILTERS.COM

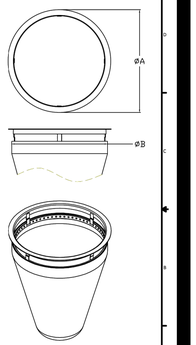
DWG	DRAWING TYPE	DRAW No	REV
C	HDR	RD-62MHDR-FX	A

SHEET 2 OF 2

FLEXSTORM P/Ns 62LHDRFX & 62LHDRFXP

RD INLET TYPE: RAISED CAST IRON FRAME AND ROUND GRATE





Pure Frame with PX Bag		Field Inlet Dimensions		Flexstorm Framing Dims		Bag Capacity (ft³)	FC/PC=Floor Rate (CFS)	Bypass (CFS)	Pure Frame with PXr Bag	
		A	B	B1	A1					
ADS P/N	Flexstorm Item Code								ADS P/N	Flexstorm Item Code
62LHDR15	P-RD-275-252-FX	27.5	25.146	25.0	27.0	2.1	1.6	5.8	62LHDRFXP	P-RD-275-252-FXP
62LHDR15	P-RD-275-258-FX	27.5	25.75	25.0	27.0	2.2	1.6	5.8	62LHDRFXP	P-RD-275-258-FXP
62LHDR15	P-RD-279-260-FX	27.875	26	25.0	27.0	2.2	1.6	5.8	62LHDRFXP	P-RD-279-260-FXP
62LHDR15	P-RD-290-270-FX	29	27	26.5	28.5	2.4	1.7	6.1	62LHDRFXP	P-RD-290-270-FXP
62LHDR15	P-RD-289-271-FX	28.75	27.125	26.5	28.5	2.4	1.7	6.1	62LHDRFXP	P-RD-289-271-FXP
62LHDR15	P-RD-319-300-FX	31.75	30	29.5	31.5	3.0	1.9	6.8	62LHDRFXP	P-RD-319-300-FXP
62LHDR15	P-RD-319-300-FX	31.67	30	29.5	31.5	3.0	1.9	6.8	62LHDRFXP	P-RD-319-300-FXP
62LHDR15	P-RD-320-300-FX	32	30	29.5	31.5	3.0	1.9	6.8	62LHDRFXP	P-RD-320-300-FXP
62LHDR15	P-RD-323-303-FX	32.25	30.25	29.5	31.5	3.1	1.9	6.8	62LHDRFXP	P-RD-323-303-FXP
62LHDR15	P-RD-341-315-FX	34.125	31.5	31.3	33.3	3.3	2.0	7.2	62LHDRFXP	P-RD-341-315-FXP
62LHDR15	P-RD-341-323-FX	34.125	32.25	32.0	34.0	3.5	2.0	7.4	62LHDRFXP	P-RD-341-323-FXP
62LHDR15	P-RD-343-323-FX	34.25	32.25	32.0	34.0	3.5	2.0	7.4	62LHDRFXP	P-RD-343-323-FXP
62LHDR15	P-RD-341-325-FX	34.125	32.5	32.0	34.0	3.5	2.0	7.4	62LHDRFXP	P-RD-341-325-FXP
62LHDR15	P-RD-360-340-FX	36	34	33.5	35.5	3.9	2.1	7.8	62LHDRFXP	P-RD-360-340-FXP
62LHDR15	P-RD-360-360-FX	36	36	35.5	37.5	4.4	2.3	8.2	62LHDRFXP	P-RD-360-360-FXP

NOTES:

1. RATINGS SHOWN ARE FOR STANDARD 22" BAG DEPTH; "SHORT" 12" DEPTH BAGS ARE AVAILABLE WITH -S SUFFIX; RATINGS REDUCED BY ~50%.
2. THE FOLLOWING REQUIRES ADDITIONAL REVIEW
-GRATES WITH EXTENDED BOTTOMS
-ANY OBSTRUCTED INLET OPENINGS

FLEXSTORM PURE

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 207-8655 PH (630) 355-3477 FX INFO@INLETFILTERS.COM

DWG	DRAWING TYPE	DRAW No	REV
C	HDR	RD-62LHDR-FX	A

SHEET 1 OF 2

Stantec

Stantec Consulting Ltd.
400 - 1331 Clyde Avenue
Ottawa ON
Tel. 613.722.4420
www.stantec.com

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Legend

- PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110
- PROPOSED CATCH BASIN PROTECTION AS PER FLEX STORM INLET FILTERS DETAIL. ITEM CODE P-RD-240-223-FX
- PROPOSED CATCH BASIN MH PROTECTION AS PER FLEX STORM INLET FILTERS DETAIL. ITEM CODE P-RD-290-270-FX
- PROPOSED CATCH BASIN PROTECTION AS PER TERRAFIX SILTSACK DETAIL
- PROPOSED MUD MAT LOCATION
- PROPOSED VALVE BOX
- PROPOSED VALVE CHAMBER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED CATCHBASIN

Best Management Practices

CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT.

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

1. LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
2. REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
3. MINIMIZE AREA TO BE CLEARED AND GRUBBED.
4. PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
5. INSTALL CATCH BASIN INSERTS OR EQUIVALENT IN ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES AND IN ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUNOFF FROM THE SITE.
6. A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE. (LOCATION TO BE DETERMINED)
7. A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT.
8. SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS. ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT EXISTING STORM AND SANITARY SEWER SYSTEMS, OR DOWNSTREAM WATERCOURSES.
9. NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING WATERWAY.
10. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLEY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
11. THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS REQUIRED.
12. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
13. CONTRACTOR SHALL INSTALL MUD MATS AT BOTH ENTRANCES TO THE SITE.
14. STORMWATER SWALES TO BE COVERED WITH HYDRO-SEED AND MULCH.

5	REVISED AS PER CITY COMMENTS	MJS	NC	23.03.23
4	REVISED AS PER CITY COMMENTS	MJS	NC	22.12.22
3	REVISED AS PER CITY COMMENTS	MJS	NC	22.10.27
2	REVISED AS PER CITY COMMENTS	MJS	NC	22.08.03
1	ISSUED FOR GEOTECH REVIEW	MJS	DT	22.07.11
0	ISSUED FOR SPA	MJS	DT	22.03.28
Revision		By	Appd.	YY.MM.DD

File Name: 160401727 D8.dwg	MJS	PM	MJS	22.02.14
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER 2023-03-23 N. P. CODY 100125430 PROVINCE OF ONTARIO

Client/Project

BAYVIEW STITTSVILLE INC.

THE LANDING ON MAIN
1364-1370 STITTSVILLE MAIN STREET
STITTSVILLE, ON, CANADA

Title

EROSION CONTROL PLAN AND DETAIL SHEET

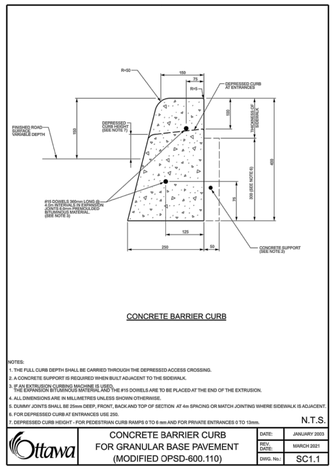
Project No.	Scale	
160401727		
Drawing No.	Sheet	Revision
ECDS-1	5 of 8	5

PLAN # 18744

D07-12-22-0059

ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 12:49 pm, Apr 28, 2023



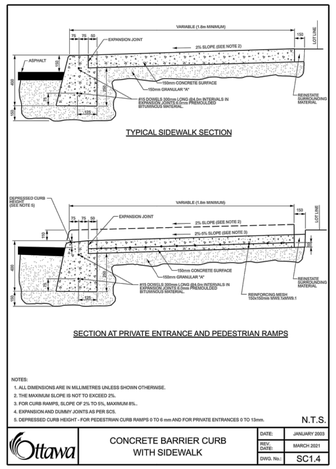
CONCRETE BARRIER CURB

NOTES:
1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.
3. IF AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #15 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJACENT.
6. FOR DEPRESSED CURB AT ENTRANCES USE 25B.
7. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13mm.

N.T.S.

Ottawa — CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)

DATE:	JANUARY 2003
REV DATE:	MARCH 2011
DWG. No.:	SC1.1



TYPICAL SIDEWALK SECTION

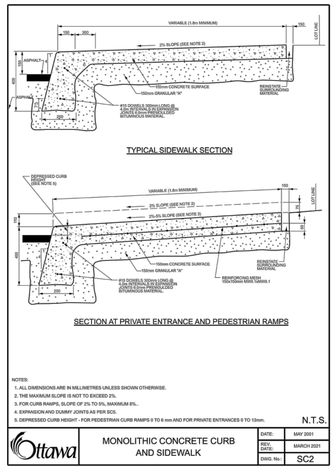
SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%.
4. EXPANSION AND DUMMY JOINTS AS PER SC5.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13mm.

N.T.S.

Ottawa — CONCRETE BARRIER CURB WITH SIDEWALK

DATE:	JANUARY 2003
REV DATE:	MARCH 2004
DWG. No.:	SC1.4



TYPICAL SIDEWALK SECTION

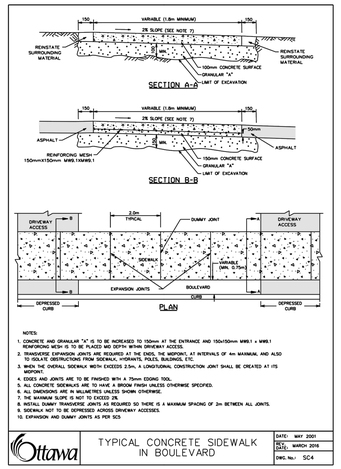
SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%.
4. EXPANSION AND DUMMY JOINTS AS PER SC5.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13mm.

N.T.S.

Ottawa — MONOLITHIC CONCRETE CURB AND SIDEWALK

DATE:	MAY 2001
REV DATE:	MARCH 2004
DWG. No.:	SC2



SECTION A-A

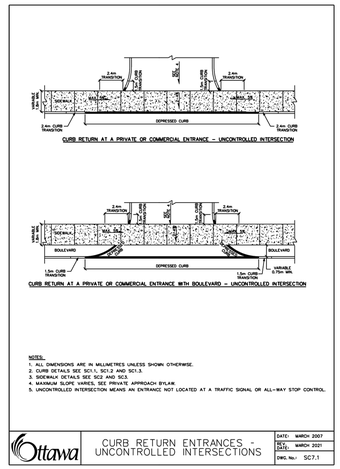
SECTION B-B

PLAN

NOTES:
1. CONCRETE AND GRANULAR "A", IS TO BE INCREASED TO 150mm AT THE ENTRANCE AND 150x150mm WWS1 x WWS1 REINFORCING MESH IS TO BE PLACED MID DEPTH WITHIN DRIVEWAY ACCESS.
2. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT THE ENDS, THE MIDPOINT, AT INTERVALS OF 6m MAXIMUM, AND ALSO TO ISOLATE OBSTRUCTIONS FROM SIDEWALK, HYDRANTS, POLES, BUILDINGS, ETC.
3. WHEN THE OVERALL SIDEWALK WIDTH EXCEEDS 2.5m, A LONGITUDINAL CONSTRUCTION JOINT SHALL BE CREATED AT ITS MIDPOINT.
4. EDGES AND JOINTS ARE TO BE FINISHED WITH A 75mm EDGING TOOL.
5. ALL CONCRETE SIDEWALKS ARE TO HAVE A BROOM FINISH UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
7. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
8. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%. A MINIMUM LENGTH OF 1.5m IS REQUIRED TO MEET A MAXIMUM SPACING OF 2m BETWEEN ALL JOINTS.
9. SIDEWALK NOT TO BE DEPRESSED ACROSS DRIVEWAY ACCESS.
10. EXPANSION AND DUMMY JOINTS AS PER SC5

Ottawa — TYPICAL CONCRETE SIDEWALK IN BOULEVARD

DATE:	MAY 2001
REV DATE:	MARCH 2004
DWG. No.:	SC4



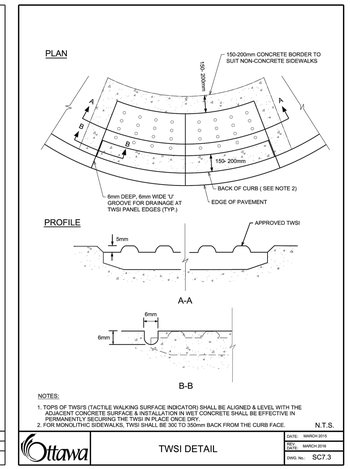
CURB RETURN AT A PRIVATE OR COMMERCIAL ENTRANCE – UNCONTROLLED INTERSECTION

CURB RETURN AT A PRIVATE OR COMMERCIAL ENTRANCE WITH BOULEVARD – UNCONTROLLED INTERSECTION

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. CURB DETAILS SEE SC1.1, SC1.2 AND SC1.3.
3. SIDEWALK DETAILS SEE SC2 AND SC3.
4. MAXIMUM SLOPE VARIES, SEE PRIVATE APPROACH STYLE#.
5. UNCONTROLLED INTERSECTION MEANS AN ENTRANCE NOT LOCATED AT A TRAFFIC SIGNAL OR ALL-WAY STOP CONTROL.

Ottawa — CURB RETURN ENTRANCES - UNCONTROLLED INTERSECTIONS

DATE:	MARCH 2007
REV DATE:	MARCH 2021
DWG. No.:	SC7.1



PLAN

PROFILE

A-A

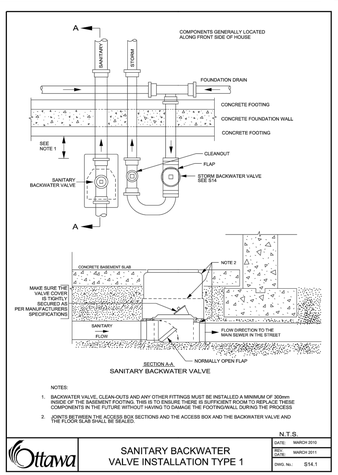
B-B

NOTES:
1. TOPS OF TWSI'S (TACTILE WALKING SURFACE INDICATOR) SHALL BE ALIGNED & LEVEL WITH THE ADJACENT CONCRETE SURFACE & INSTALLATION IN WET CONCRETE SHALL BE EFFECTIVE IN PERMANENTLY SECURING THE TWSI IN PLACE ONCE DRY.
2. FOR MONOLITHIC SIDEWALKS, TWSI SHALL BE 300 TO 350mm BACK FROM THE CURB FACE.

N.T.S.

Ottawa — TWSI DETAIL

DATE:	MARCH 2015
REV DATE:	MARCH 2016
DWG. No.:	SC7.3



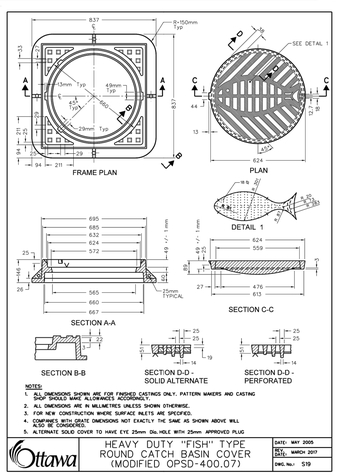
SANITARY BACKWATER VALVE

NOTES:
1. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS
2. JOINTS BETWEEN THE ACCESS BOX SECTIONS AND THE ACCESS BOX AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

N.T.S.

Ottawa — SANITARY BACKWATER VALVE INSTALLATION TYPE 1

DATE:	MARCH 2010
REV DATE:	MARCH 2011
DWG. No.:	S14.1



FRAME PLAN

PLAN

DETAIL 1

SECTION A-A

SECTION C-C

SECTION B-B

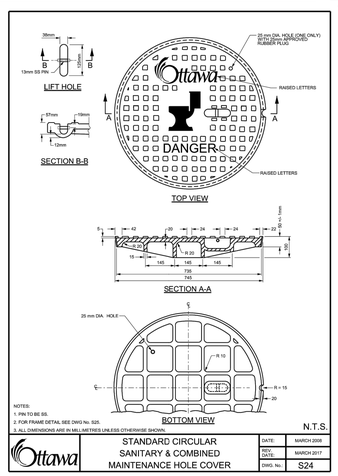
SECTION D-D - SOLID ALTERNATE

SECTION D-D - PERFORATED

NOTES:
1. ALL DIMENSIONS SHOWN ARE FOR FINISHED CASTINGS ONLY. PATTERN MAKERS AND CASTING SHOP SHOULD MAKE ALLOWANCES ACCORDINGLY.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
3. FOR NEW CONSTRUCTION WHERE SURFACE INLETS ARE SPECIFIED.
4. DOWELS AND ASSOCIATED DIMENSIONS NOT EXACTLY THE SAME AS SHOWN ABOVE WILL BE ACCEPTABLE.
5. ALTERNATE SOLID COVER TO HAVE EYE 25mm Dia. HOLE WITH 25mm APPROVED PLUG

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

DATE:	MAY 2005
REV DATE:	MARCH 2017
DWG. No.:	S19



LIFT HOLE

SECTION B-B

TOP VIEW

SECTION A-A

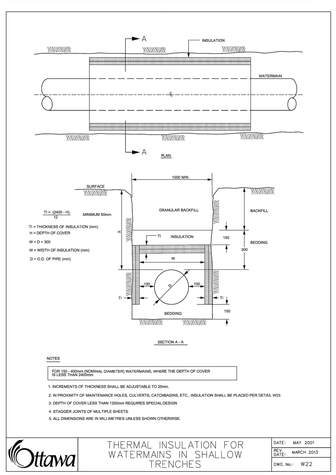
BOTTOM VIEW

NOTES:
1. PIN TO BE SS.
2. FOR FRAME DETAIL SEE DWG No. S25.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

N.T.S.

Ottawa — STANDARD CIRCULAR SANITARY & COMBINED MAINTENANCE HOLE COVER

DATE:	MARCH 2010
REV DATE:	MARCH 2017
DWG. No.:	S24

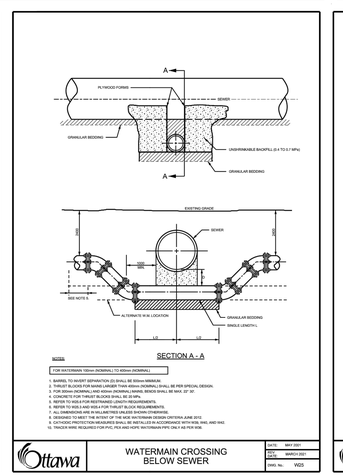


SECTION A - A

NOTES:
FOR WATERMAIN 100mm (NOMINAL) TO 400mm (NOMINAL)
1. BARREL TO INVERT DEFINATION (D) SHALL BE 300mm MINIMUM.
2. THRUST BLOCKS FOR MAINS LARGER THAN 400mm (NOMINAL) SHALL BE PER SPECIAL DESIGN.
3. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23
4. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN
5. STAGGER JOINTS OF MULTIPLE SHEETS.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

Ottawa — THERMAL INSULATION FOR WATERMAINS IN SHALLOW TRENCHES

DATE:	MAY 2001
REV DATE:	MARCH 2011
DWG. No.:	W22

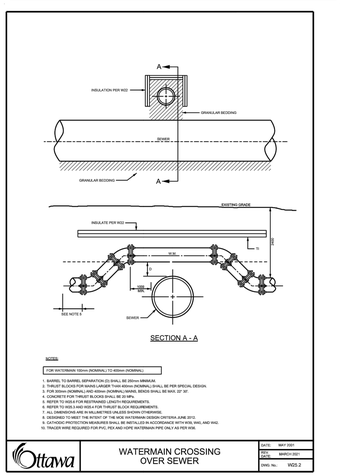


SECTION A - A

NOTES:
FOR WATERMAIN 100mm (NOMINAL) TO 400mm (NOMINAL)
1. BARREL TO INVERT DEFINATION (D) SHALL BE 300mm MINIMUM.
2. THRUST BLOCKS FOR MAINS LARGER THAN 400mm (NOMINAL) SHALL BE PER SPECIAL DESIGN.
3. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., BRACE SHALL BE MAX. 20°, 30°.
4. CONCRETE FOR THRUST BLOCKS SHALL BE 20 MPA.
5. REFER TO W35.6 FOR RESTRAINED LENGTH REQUIREMENTS.
6. ALL BRACES SHALL BE PLACED PER DETAIL W35.4 UNLESS SHOWN.
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
8. DESIGNED TO MEET THE INTENT OF THE MOE WATERMAIN DESIGN CRITERIA JUNE 2012.
9. CATHODIC PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH W36, W40, W42.
10. TRACER WIRE REQUIRED FOR PVC, PEX AND HDPE WATERMAIN PER ONLY AS PER W36.

Ottawa — WATERMAIN CROSSING BELOW SEWER

DATE:	MAY 2001
REV DATE:	MARCH 2011
DWG. No.:	W35



SECTION A - A

NOTES:
FOR WATERMAIN 100mm (NOMINAL) TO 400mm (NOMINAL)
1. BARREL TO INVERT DEFINATION (D) SHALL BE 300mm MINIMUM.
2. THRUST BLOCKS FOR MAINS LARGER THAN 400mm (NOMINAL) SHALL BE PER SPECIAL DESIGN.
3. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., BRACE SHALL BE MAX. 20°, 30°.
4. CONCRETE FOR THRUST BLOCKS SHALL BE 20 MPA.
5. REFER TO W35.6 FOR RESTRAINED LENGTH REQUIREMENTS.
6. ALL BRACES SHALL BE PLACED PER DETAIL W35.4 UNLESS SHOWN.
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
8. DESIGNED TO MEET THE INTENT OF THE MOE WATERMAIN DESIGN CRITERIA JUNE 2012.
9. CATHODIC PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH W36, W40, W42.
10. TRACER WIRE REQUIRED FOR PVC, PEX AND HDPE WATERMAIN PER ONLY AS PER W36.

Ottawa — WATERMAIN CROSSING OVER SEWER

DATE:	MAY 2001
REV DATE:	MARCH 2011
DWG. No.:	W35.2

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ORIGINAL SHEET - ARCH D