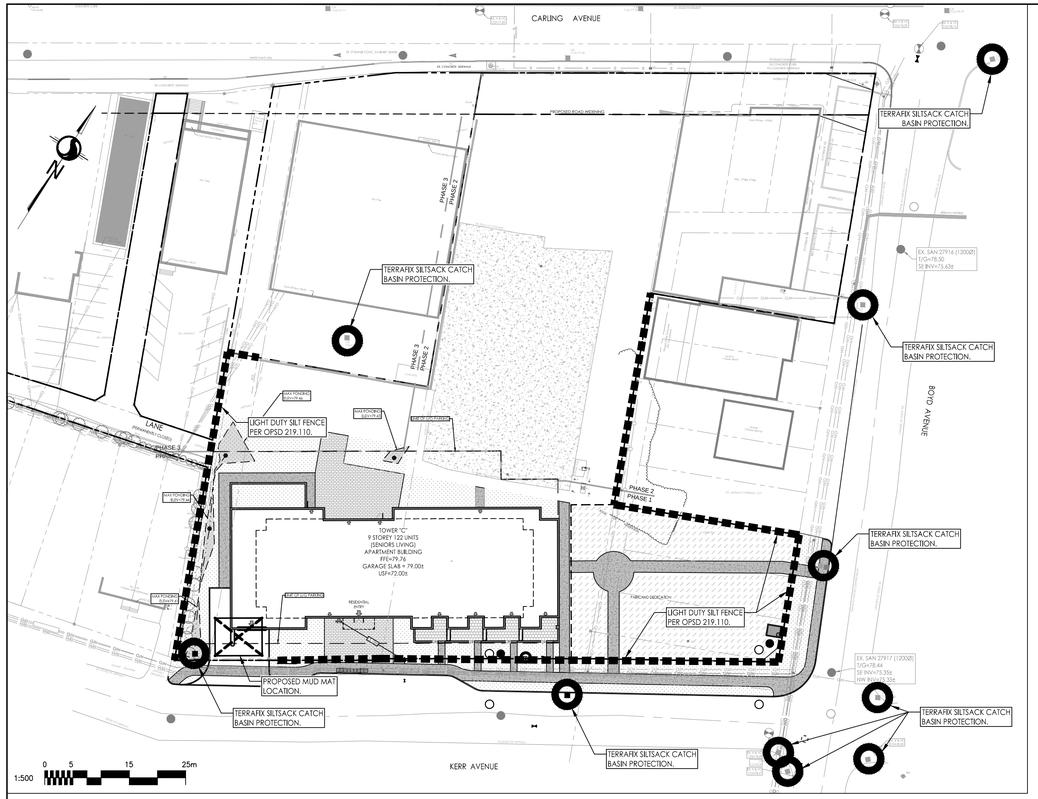
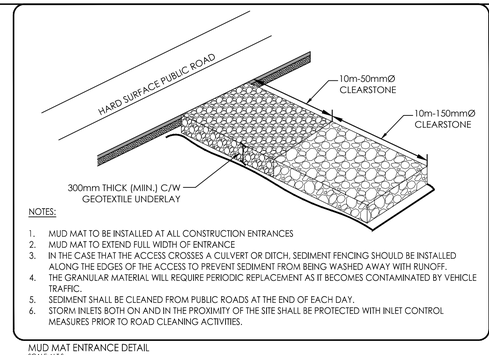
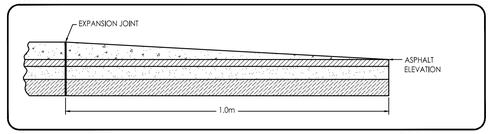




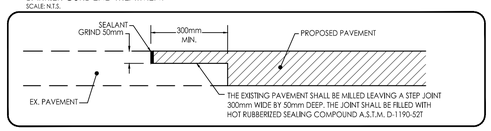
NOTES:

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.

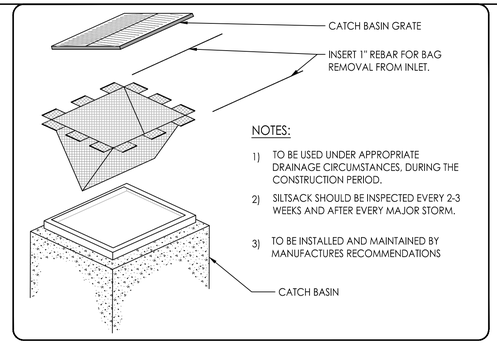
MUD MAT ENTRANCE DETAIL
SCALE: N.T.S.



BARRIER CURB END TREATMENT
SCALE: N.T.S.



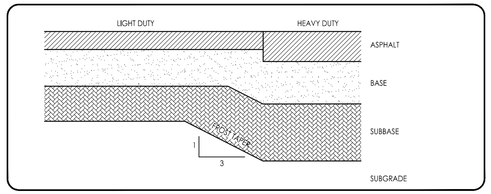
MEDIAN/STEP JOINT DETAIL
SCALE: N.T.S.



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.



TYPICAL SECTION - TRANSITION BETWEEN DIFFERING PAVEMENT STRUCTURES
SCALE: N.T.S.

Stantec

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

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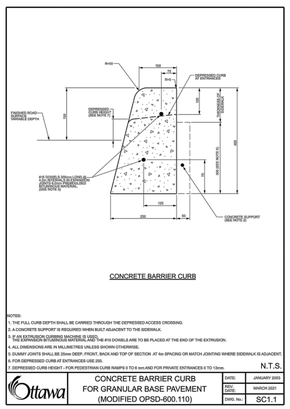
Legend

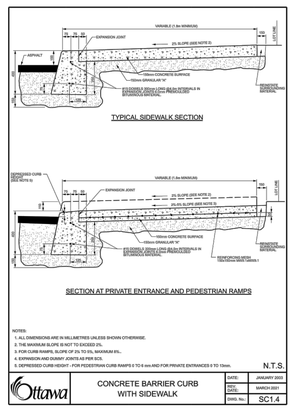
- PROPOSED SILT FENCE BOUNDARY AS PER OPSD 219.110
- PROPOSED CATCH BASIN PROTECTION AS PER TERRAFIX SILTSACK DETAIL
- PROPOSED MUD MAT LOCATION
- PROPOSED VALVE BOX
- PROPOSED VALVE CHAMBER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED CATCHBASIN



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 EXPANSION JOINT/CROSS IS REQUIRED, USE THE #15 DOWELS AND TO BE PLACED AT THE END OF THE EXTRUSION.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. SUNNY JOINTS SHALL BE 20mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJACENT.
6. FOR DEPRESSED CURB AT ENTRANCES USE 25S.
7. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 12mm.

N.T.S.

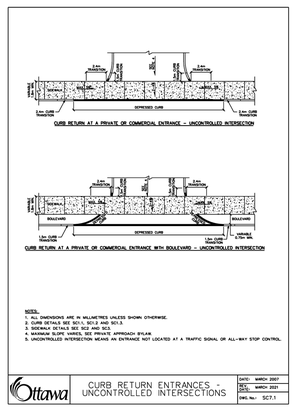
CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)	DATE:	JANUARY 2005	
	SPEC. DATE:	MARCH 2021	
	DWG No.:	SC1.1	



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 SUNNY JOINTS AS PER SC3.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 12mm.

N.T.S.

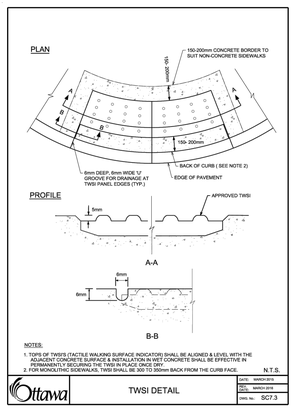
CONCRETE BARRIER CURB WITH SIDEWALK	DATE:	JANUARY 2005	
	SPEC. DATE:	MARCH 2021	
	DWG No.:	SC1.4	



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

N.T.S.

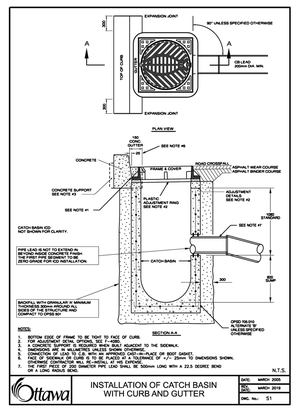
CURB RETURN ENTRANCES - UNCONTROLLED INTERSECTIONS	DATE:	MARCH 2007	
	SPEC. DATE:	MARCH 2021	
	DWG No.:	SC7.1	



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 ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. FOR MONOLITHIC SIDEWALKS, TWSI SHALL BE 300 TO 300mm BACK FROM THE CURB FACE.

N.T.S.

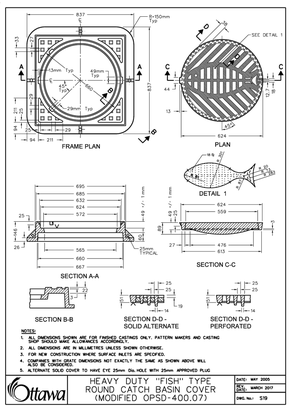
TWSI DETAIL	DATE:	MARCH 2015	
	REV. DATE:	MARCH 2019	
	DWG No.:	SC7.3	



NOTES:
1. BOTTOM EDGE OF FRAME TO BE TIGHT TO FACE OF CURB.
2. FOR ADJUSTMENT DETAIL OPTIONS, SEE F-4080.
3. CONCRETE SUPPORT TO BE PLACED TIGHT TO ADJACENT TO THE SIDEWALK.
4. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. CONDITIONS OF LEAD TO BE WITH NO APPROVED CATCH-BASIN (OR ROOF GASKET)
6. THE LENGTH OF THE CURB GUTTER SHALL BE 1.0m FOR CATCH BASIN DRAWINGS SHOWN. CONTRACTOR WILL BE NOTIFIED, AT THE TIME OF TENDER, IF THE FIXED PIECE OF 200 DIAMETER PIPE LEAD SHALL BE 300mm LONG WITH A 22.5 DEGREE BEND OR A LONG RADIUS BEND.

N.T.S.

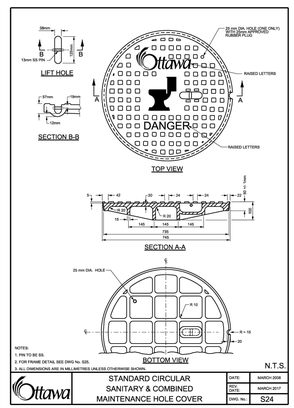
INSTALLATION OF CATCH BASIN WITH CURB AND GUTTER	DATE:	MAY 2005	
	REV. DATE:	MARCH 2019	
	DWG No.:	S1	



NOTES:
1. ALL DIMENSIONS SHOWN ARE FOR TWOHEY-ELECTRICS ONLY. PATTERN MARKERS AND CASTING SHOULD MAKE ALLOWANCES ACCORDINGLY.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
3. FOR NEW CONSTRUCTION WHERE SURFACE INLETS ARE SPECIFIED.
4. CONCRETE WITH ADJUST 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

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

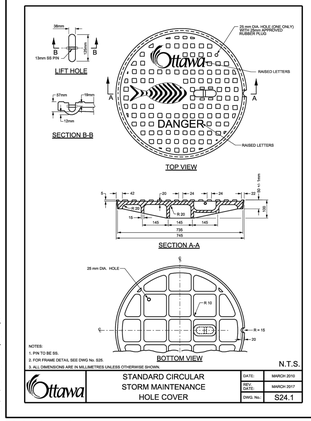
	DATE:	MAY 2005	
	REV. DATE:	MARCH 2017	
	DWG No.:	S19	



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

STANDARD CIRCULAR SANITARY & COMBINED MAINTENANCE HOLE COVER

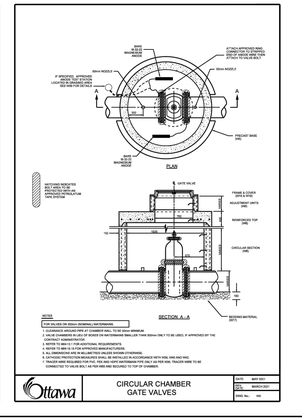
	DATE:	MARCH 2008	
	REV. DATE:	MARCH 2017	
	DWG No.:	S24	



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

STANDARD CIRCULAR STORM MAINTENANCE HOLE COVER

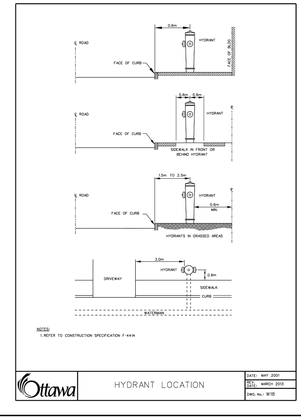
	DATE:	MARCH 2019	
	REV. DATE:	MARCH 2017	
	DWG No.:	S24.1	



NOTES:
FOR VALVES ON 300mm (NOMINAL) WATERMAINS
1. CLEARANCE AROUND PIPE AT CHAMBER WALL TO BE 300mm MINIMUM.
2. VALVE CHAMBER IN LIEU OF BOXES ON WATERMAINS SMALLER THAN 300mm DIA (TO BE USED, IF APPROVED BY THE MUNICIPALITY HAVING JURISDICTION).
3. REFER TO MAS-13.1 FOR ADDITIONAL REQUIREMENTS.
4. REFER TO MAS-14.10 FOR APPROVED MANUFACTURERS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
6. CATCHED PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH MSE, MAS, AND MAC.
7. TRACER WIRE SHALL BE PROVIDED ON ALL WATERMAINS AND SHALL NOT BE PAID. TRACER WIRE TO BE CONNECTED TO VALVE BOLT AS PER MSE AND SECURED TO TOP OF CHAMBER.

CIRCULAR CHAMBER GATE VALVES

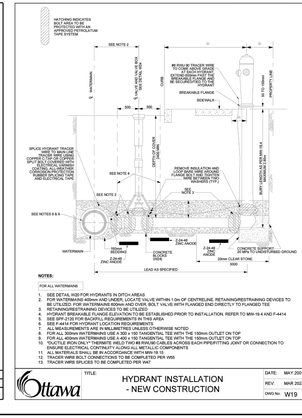
	DATE:	MAY 2001	
	REV. DATE:	MARCH 2013	
	DWG No.:	W8	



NOTES:
1. REFER TO CONSTRUCTION SPECIFICATION F-4414

HYDRANT LOCATION

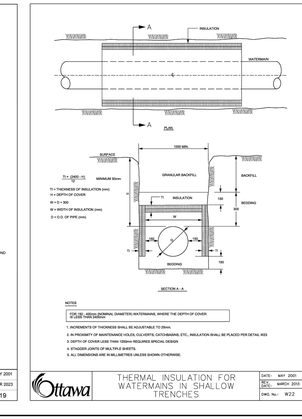
	DATE:	MAY 2001	
	REV. DATE:	MARCH 2013	
	DWG No.:	W18	



NOTES:
FOR ALL WATERMAINS
1. SEE DETAIL W26 FOR HYDRANTS IN DITCH AREAS
2. FOR WATERMAINS 400mm AND UNDER, LOCATE VALVE WITHIN 1.0m OF CENTRELINE. RETAINING/RESTRAINING DEVICES TO BE UTILIZED. FOR WATERMAINS 600mm AND OVER, BOLT VALVE WITH FLANGED END DIRECTLY TO FLANGED TEE
3. HYDRANT DEFLECTION TO BE 0° TO 15° MAXIMUM
4. HYDRANT BREAKABLE FLANGE ELEVATION TO BE ESTABLISHED PRIOR TO INSTALLATION. REFER TO MH-16.4 AND F-4414
5. SEE SPF-2120 FOR BACKFILL REQUIREMENTS IN THIS AREA
6. SEE SPF-2120 FOR THRUST BLOCKING DETAILS
7. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
8. FOR ALL 300mm WATERMAINS USE A 300 x 150 TANGENTIAL TEE WITH THE 150mm OUTLET ON TOP
9. FOR ALL 400mm AND LARGER USE A 600 x 150 TANGENTIAL TEE WITH THE 150mm OUTLET ON TOP
10. DUCTILE IRON ONLY THERMITE WELD TWO #6 PVSULOE CABLES ACROSS EACH FIRSPLITTING JOINT OR CONNECTION TO ENSURE ELECTRICAL CONTINUITY ALONG ALL METALLIC COMPONENTS
11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN
12. TRACER WIRE BOLT CONNECTIONS TO BE COMPLETED PER W85
13. TRACER WIRE SPLICES TO BE COMPLETED PER W87

TITLE:
HYDRANT INSTALLATION - NEW CONSTRUCTION

	DATE:	MAY 2001	
	REV. DATE:	MAR 2023	
	DWG No.:	W19	

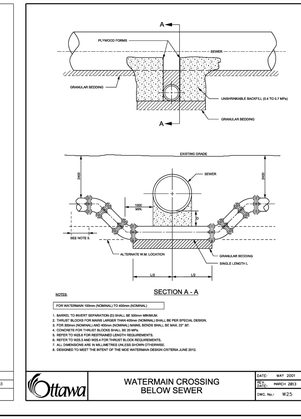


NOTES
FOR 150 - 400mm (NOMINAL DIAMETER) WATERMAINS, WHERE THE DEPTH OF COVER AT LEAST 1400mm

1. INCREMENTS OF THICKNESS SHALL BE ADJUSTABLE TO 25mm.
2. IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCH BASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23
3. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN.
4. STAGGER JOINTS OF MULTIPLE SHEETS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

THERMAL INSULATION FOR WATERMAINS IN SHALLOW TRENCHES

	DATE:	MAY 2001	
	REV. DATE:	MARCH 2013	
	DWG No.:	W22	

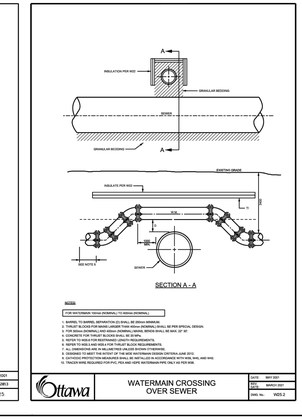


NOTES:
FOR WATERMAINS 150mm (NOMINAL) TO 600mm (NOMINAL)

1. BARREL TO INVERT SEPARATION (D) SHALL BE 500mm MINIMUM.
2. THRUST BLOCKS FOR MAINS LARGER THAN 600mm (NOMINAL) SHALL BE PER SPECIAL DESIGN.
3. FOR 300mm (NOMINAL) AND 400mm (NOMINAL) MAINS, THE BEDDING SHALL BE MAS 32" 40.
4. CONCRETE FOR THRUST BLOCKING SHALL BE 20 MPA.
5. REFER TO MSE FOR RESTRAINED LENGTH REQUIREMENTS.
6. REFER TO MAS-14.10 FOR APPROVED MANUFACTURERS.
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
8. NO NEED TO NEED A MID-SIDE FOR THRUST BLOCK REQUIREMENTS.
9. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
10. CATCHED PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH MSE, MAS, AND MAC.
11. TRACER WIRE REQUIRED FOR PVC, PEA AND HDPE WATERMAINS PIPE ONLY AS PER W86

WATERMAIN CROSSING BELOW SEWER

	DATE:	MAY 2001	
	REV. DATE:	MARCH 2013	
	DWG No.:	W25	



NOTES:
FOR WATERMAINS 150mm (NOMINAL) TO 600mm (NOMINAL)

1. BARREL TO BARREL SEPARATION (D) SHALL BE 300mm MINIMUM.
2. THRUST BLOCKS FOR MAINS LARGER THAN 600mm (NOMINAL) SHALL BE PER SPECIAL DESIGN.
3. FOR 300mm (NOMINAL) AND 400mm (NOMINAL) MAINS, BEDDING SHALL BE MAS 32" 40.
4. CONCRETE FOR THRUST BLOCKING SHALL BE 20 MPA.
5. REFER TO MSE FOR RESTRAINED LENGTH REQUIREMENTS.
6. REFER TO MAS-14.10 FOR APPROVED MANUFACTURERS.
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
8. NO NEED TO NEED A MID-SIDE FOR THRUST BLOCK REQUIREMENTS.
9. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
10. CATCHED PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH MSE, MAS, AND MAC.
11. TRACER WIRE REQUIRED FOR PVC, PEA AND HDPE WATERMAINS PIPE ONLY AS PER W86

WATERMAIN CROSSING OVER SEWER

	DATE:	MAY 2001	
	REV. DATE:	MARCH 2013	
	DWG No.:	W26.2	

0	ISSUED FOR SPA	MJS	DT	25.10.17
Revision		By	Appd.	YY.MM.DD
File Name: 160401895 D8.dwg		MJS	AG	MJS 25.04.30
		Dwn.	Chkd.	Dsgn. YY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
D. C. THIFFAULT
100186107
2025-10-23
PROVINCE OF ONTARIO

Client/Project
THE PROPERTIES GROUP

1746 CARLING AVENUE
9 STOREY APARTMENT BUILDING
OTTAWA, ON, CANADA

Title
EROSION CONTROL PLAN AND DETAIL SHEET

Project No.	Scale	
160401895		
Drawing No.	Sheet	Revision
EC/DS-1	9 of 11	0

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