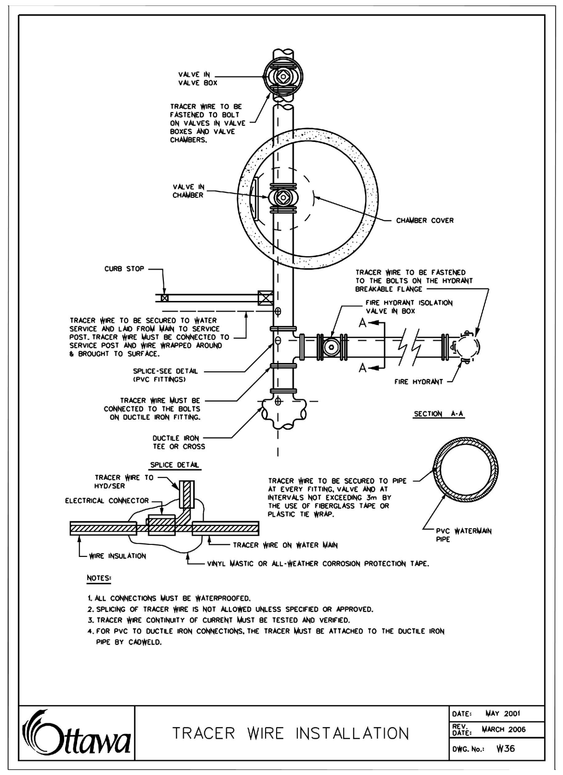
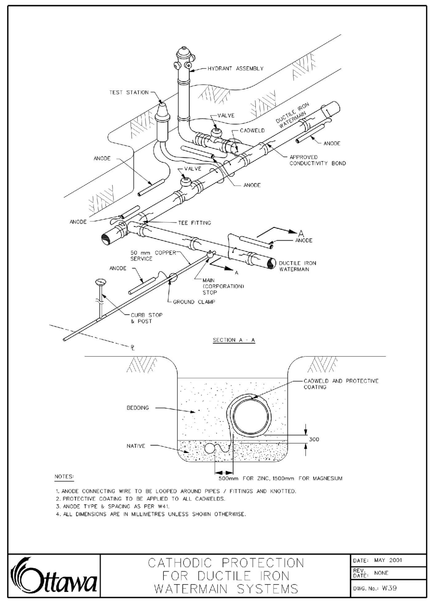


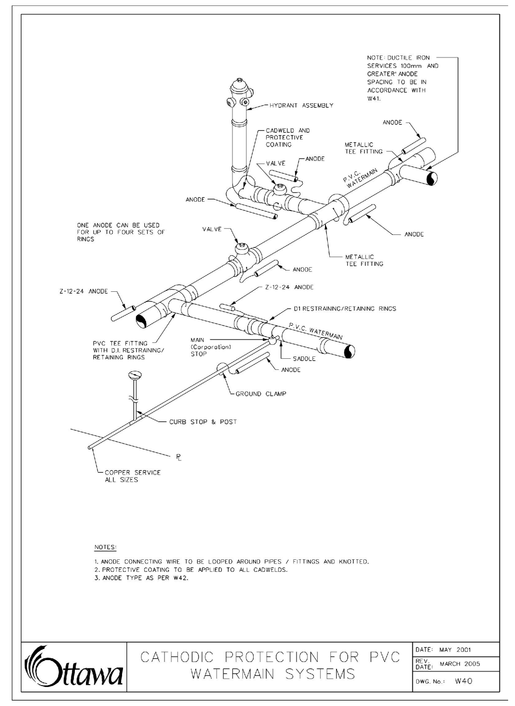
NOTES:
1. ALL CONNECTIONS MUST BE WATERPROOFED.
2. SPLICING OF TRACER WIRE IS NOT ALLOWED UNLESS SPECIFIED OR APPROVED.
3. TRACER WIRE CONTINUITY OF CURRENT MUST BE TESTED AND VERIFIED.
4. FOR PVC TO DUCTILE IRON CONNECTIONS, THE TRACER MUST BE ATTACHED TO THE DUCTILE IRON PIPE BY CADWELD.

Ottawa	TRACER WIRE INSTALLATION	DATE: MAY 2001 REV. DATE: MARCH 2006 DWG. No.: W36



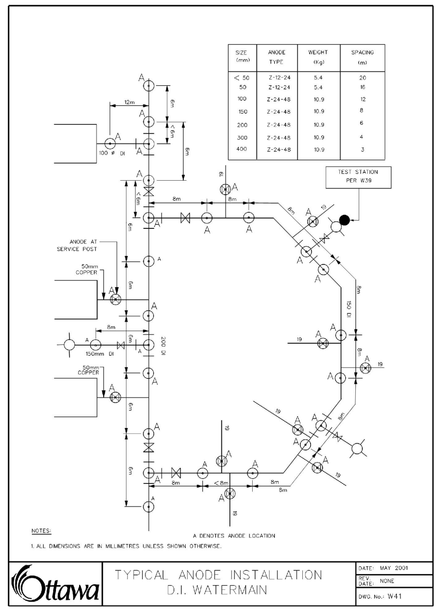
NOTES:
1. ANODE CONNECTING WIRE TO BE LOOPED AROUND PIPES / FITTINGS AND KNOTTED.
2. PROTECTIVE COATING TO BE APPLIED TO ALL CADWELDS.
3. ANODE TYPE & SPACING AS PER W42.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

Ottawa	CATHODIC PROTECTION FOR DUCTILE IRON WATERMAIN SYSTEMS	DATE: MAY 2001 REV. DATE: NONE DWG. No.: W39



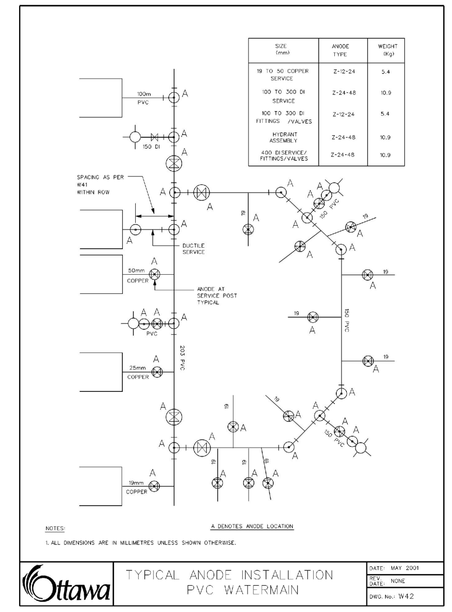
NOTES:
1. ANODE CONNECTING WIRE TO BE LOOPED AROUND PIPES / FITTINGS AND KNOTTED.
2. PROTECTIVE COATING TO BE APPLIED TO ALL CADWELDS.
3. ANODE TYPE AS PER W42.

Ottawa	CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS	DATE: MAY 2001 REV. DATE: MARCH 2005 DWG. No.: W40



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

Ottawa	TYPICAL ANODE INSTALLATION D.I. WATERMAIN	DATE: MAY 2009 REV. NONE DWG No.: W41



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

Ottawa	TYPICAL ANODE INSTALLATION PVC WATERMAIN	DATE: MAY 2009 REV. NONE DWG No.: W42

NOTES
FOR WATER SERVICE CONNECTIONS
1. FOR TRENCH DETAIL SEE W17.
2. SEE W6-19.15 FOR APPROVED PRODUCTS.
3. ALL DIMENSIONS ARE IN MILLIMETRES.
4. SEE W6-10.1 FOR BACKFILL REQUIREMENTS IN THIS AREA.

Ottawa	SERVICE LINE 40 & 50mm (NOMINAL) DIAMETER	DATE: MAY 2009 REV. NONE DWG. No.: W33

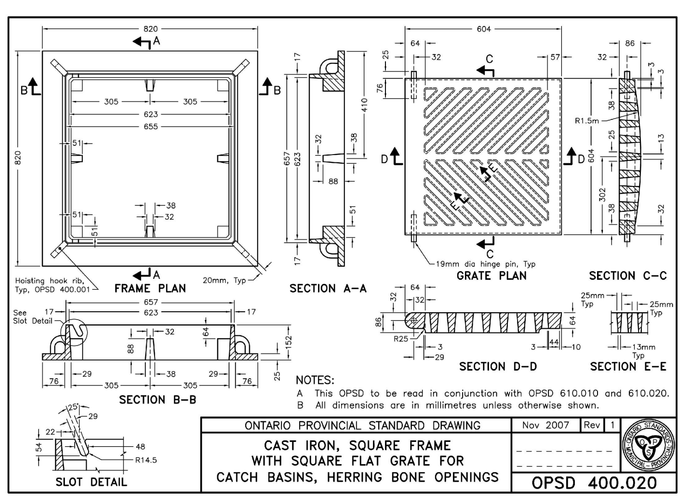
NOTES:
1. ADJUSTABLE BOX FROM 2200mm TO 2500mm.
2. SEE W28 AND W33 FOR TYPICAL SERVICE INSTALLATION.
3. MAXIMUM CLEARANCE BETWEEN OPERATING NUT AND CUP 15mm ± 5mm.
4. REFER TO W6-19.15 FOR APPROVED SERVICE POSTS.
5. REFER TO W6-10.8 FOR ADDITIONAL REQUIREMENTS.
6. ALL DIMENSIONS ARE IN MILLIMETRES.

Ottawa	SERVICE POST ASSEMBLY FOR SERVICES UP TO 50mm	DATE: MAY 2001 REV. NONE DWG. No.: W35

NOTES:
1. ANY JOINT THAT FALLS WITHIN THE RECOMMENDED LENGTH (L) SHALL BE RESTRAINED. SEE DRAWING W25.6
2. TO REDUCE THE NUMBER OF RESTRAINERS REQUIRED THE USE OF FULL PIPE LENGTHS IS RECOMMENDED IN THESE AREAS.

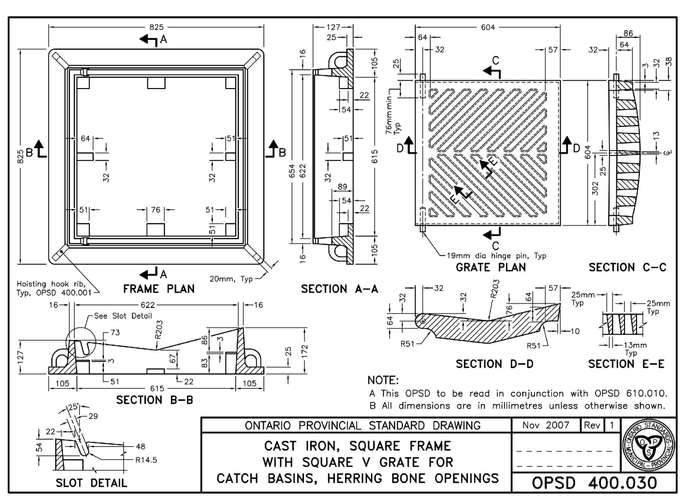
Ottawa	RESTRAINING AND RETAINING RINGS FOR PVC AND DI PIPE 400mm AND UNDER	DATE: MAY 2001 REV. NONE DWG. No.: W25.5

NOTES:
A This OPSD shall be read in conjunction with OPSD 701.041.
B Centre reinforcing in transition cone ±25mm. All other reinforcing steel shall have 25mm minimum cover.
C Steps shall be according to OPSD 405.010 or OPSD 405.020.
D All dimensions are nominal.
E All dimensions are in millimetres unless otherwise shown.



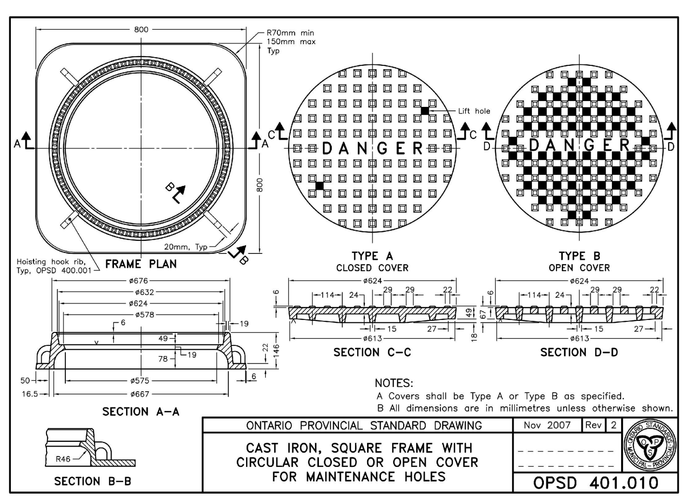
NOTES:
A This OPSD to be read in conjunction with OPSD 610.010 and 610.020.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2007	Rev 1
CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS		OPSD 400.020



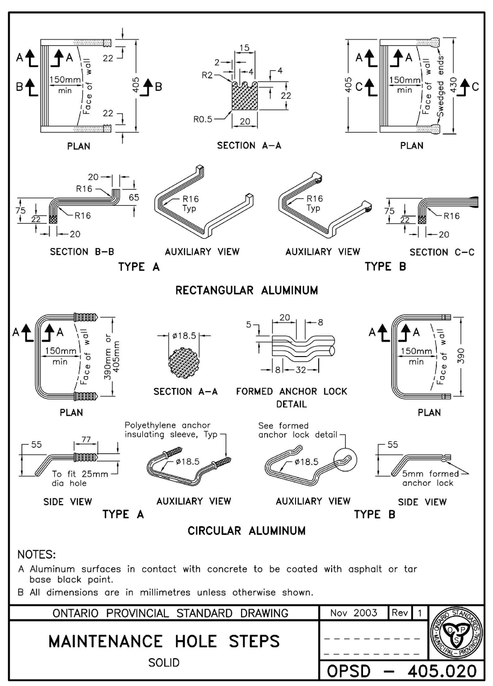
NOTE:
A This OPSD to be read in conjunction with OPSD 610.010.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2007	Rev 1
CAST IRON, SQUARE FRAME WITH SQUARE V GRATE FOR CATCH BASINS, HERRING BONE OPENINGS		OPSD 400.030



NOTES:
A Covers shall be Type A or Type B as specified.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2007	Rev 2
CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES		OPSD 401.010



NOTES:
A Aluminum surfaces in contact with concrete to be coated with asphalt or tar base black paint.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2003	Rev 1
MAINTENANCE HOLE STEPS SOLID		OPSD – 405.020

PWGSC B1 (1000x707)

Publics Works and Government Services Canada / Travaux publics et services gouvernementaux Canada

Canada

Real Property Branch
Professional and Technical Services Sector

Direction générale des biens immobiliers
Secteur des services professionnels et techniques

3	100% POUR SOUMISSION	30/07/13
2	RÉVISION 99%	24/04/13
1	RÉVISION 66%	25/02/13
revisions	description	date

A detail no. no. du détail
B location drawing no. sur dessin no.
C drawing no. dessin no.

project / projet

RECONSTRUCTION DES SERVICES MUNICIPAUX - FERME EXPÉRIMENTALE PH.5A

OTTAWA, ONTARIO

drawing / dessin

DÉTAILS TYPIQUES

designed / date	J. MAYDA 2013/07/30	conçu
drawn / date	G.FATTOUCHE 2013/07/30	dessiné
reviewed / date	J. MAYDA 2013/07/30	examiné
approved / date		approuvé
Tender	D. MOIR 2013/07/30	Soumission
Project Manager		Administrateur de projets
Project No.	R.010222.002	no. du projet
drawing no.	C-20	no. du dessin