



## Application for Water Tap Permit

Site Plan required with submittal of application.

1. Project Address: \_\_\_\_\_  Inside City Limits  Outside City Limits

2. Lot # and Subdivision: \_\_\_\_\_

3.  Residential Property                       Commercial Property

	Name	Address – City – State – Zip	Phone – Fax – Email
Owner:			
Contractor:			

The City of Loveland requires that all contractors working within the water line system be bonded in the amount of \$5,000. See attached Surety Bond form

**Tap and Water Meter Placement Inspections are required. Please call the Utilities Department at (513) 683-0150 to schedule.**

**Hamilton County Plumbing Department, (513) 946-7800, inspects the water line from the meter to the house.**

**The first ten (10) feet from pit to structure must be “K” Copper**

The undersigned hereby makes application for a permit to connect to the public water mains in the manner and location described as follows:

4.  New Service    Number of Units \_\_\_\_\_

5. Meter Size (Circle One)    3/4”    5/8”    1”    1 1/2”    2”    Other: \_\_\_\_\_

6. Job Value: \$ \_\_\_\_\_

**Any meter larger than 2” must be provided by user and installed in vault with approval of Service Director. Vault guidelines are attached.**

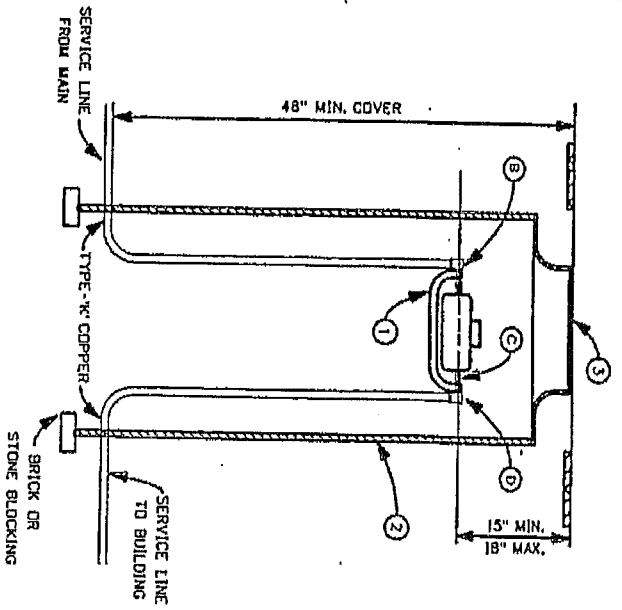
If a construction cut in a public street is necessary, a right of way permit from the City Engineer’s office will be required. I hereby certify the above information is true and accurate and that I shall comply with all rules and regulations of the Water Department.

\_\_\_\_\_  
 Owner/Agent of Property

\_\_\_\_\_  
 Date

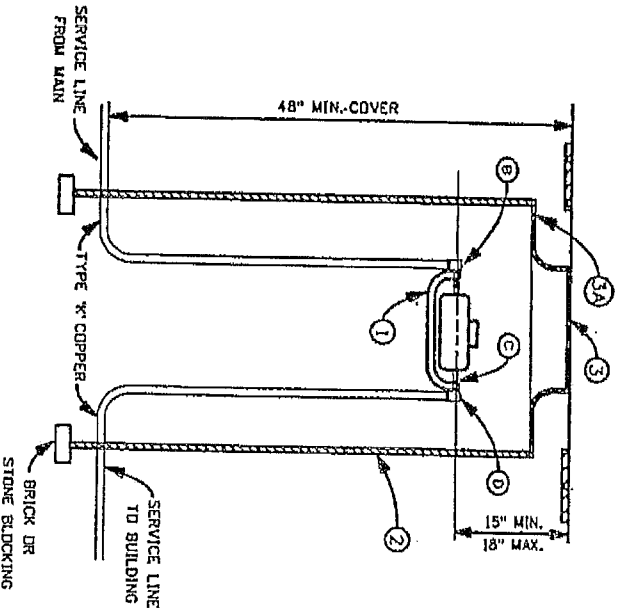
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 Issued by: \_\_\_\_\_ Issued Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Total Fee \_\_\_\_\_ Check # \_\_\_\_\_ Rec’d By: \_\_\_\_\_



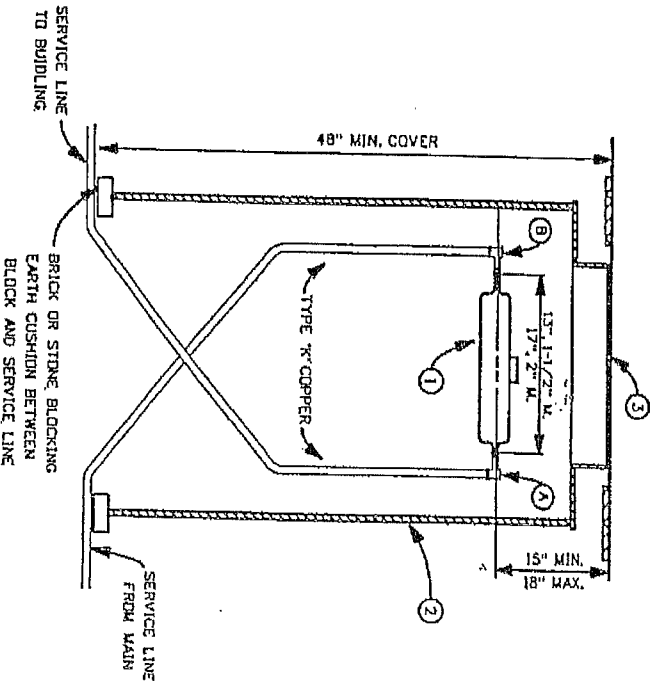
**METER SETTING - 5/8" AND 3/4" METER**

- 1 METER SETTING ASSEMBLY
  - A) YOKER BAR, FORD Y502 OR MCDONALD 14-2
  - B) ANGLE KEY VALVE INLET WITH PADLOCK WINGS, COMPRESSION COPPER, FORD AV94-323W OR MCDONALD 4602Y-22 3/4" X 02
  - C) EXPANSION CONNECTION, FORD EC-23 OR MCDONALD 14-2EHG
  - D) ANGLE CHECK VALVE OUTLET, COMPRESSION COPPER, FORD H694-323D OR MCDONALD 02-3Y2 33
- 2 1/2" DIA. X 36" LONG POLYMER TYPE METER ENCLOSURE, METER TO BE SET AT RIGHT ANGLE TO RIGHT-OF-WAY AND MUST BE LEVEL AND CENTERED WITH YOKE UPRIGHT.
- 3 A.Y. MCDONALD COVER AND FRAME 74MARG RECESSED ANTENNA PAD COVER, (1 1/2" LID ONLY, PART No. 74MAL15RG) SPECIFIED PART No.'S OR EQUIVALENT PARTS TO BE USED IN THE METER BOX ASSEMBLY.



**METER SETTING - 1" METER**

- 1 METER SETTING ASSEMBLY
  - A) YOKER BAR, FORD Y504 OR MCDONALD 14-4
  - B) ANGLE KEY VALVE INLET WITH PADLOCK WINGS, COMPRESSION COPPER, FORD AV94-444W OR MCDONALD 4602Y-22 1" X 04
  - C) EXPANSION CONNECTION, FORD EC-4 OR MCDONALD 14-4EHG
  - D) ANGLE CHECK VALVE OUTLET, COMPRESSION COPPER, FORD HHC694-444 OR MCDONALD 12-4Y2 44
- 2 2 1/2" DIA. X 36" LONG POLYMER TYPE METER ENCLOSURE, METER TO BE SET AT RIGHT ANGLE TO RIGHT-OF-WAY AND MUST BE LEVEL AND CENTERED WITH YOKE UPRIGHT.
- 3 A.Y. MCDONALD COVER AND FRAME 74MARG RECESSED ANTENNA PAD COVER, (2" LID ONLY, PART No. 74MAL15RG) SPECIFIED PART No.'S OR EQUIVALENT PARTS TO BE USED IN THE METER BOX ASSEMBLY.



**METER SETTING - 1 1/2" AND 2" METER**

- 1 METER SETTING ASSEMBLY
  - A) OUTLET CHECK VALVE WITH BLEEDER
  - B) ANGLE KEY VALVE INLET WITH PADLOCK WINGS, COMPRESSION COPPER, FORD AV94-444W OR MCDONALD 4602Y-22 1 1/2" X 04
  - C) EXPANSION CONNECTION, FORD EC-4 OR MCDONALD 14-4EHG
  - D) ANGLE CHECK VALVE OUTLET, COMPRESSION COPPER, FORD HHC694-444 OR MCDONALD 12-4Y2 44
- 2 3" DIA. X 36" LONG POLYMER TYPE METER ENCLOSURE, METER TO BE SET AT RIGHT ANGLE TO RIGHT-OF-WAY AND MUST BE LEVEL AND CENTERED WITH YOKE UPRIGHT.
- 3 A.Y. MCDONALD COVER AND FRAME 74MARG RECESSED ANTENNA PAD COVER, (2" LID ONLY, PART No. 74MAL20RG) WHEN A METER SMALLER THAN THE BRANCH SIZE IS USED, THE PIPE REDUCER SHALL BE LOCATED ON THE RISER WITHIN 4" OF THE INLET VALVE
- 4 SPECIFIED PART No.'S OR EQUIVALENT PARTS TO BE USED IN THE METER BOX ASSEMBLY.

NO METER AND/OR CURB BOX SHALL BE INSTALLED IN A DRIVEWAY, SIDEWALK OR OTHER PAVED AREA UNLESS APPROVED IN WRITING BY LOVELAND WATER INSPECTOR.



No.	Date	Revision

City of Loveland, Ohio  
STANDARD DRAWING FOR  
OUTSIDE METER PITS AND  
SETTING 2" METERS AND UNDER

Drawing No. LW-100  
April, 2006

**WATER BOND:**

**SURETY BOND**  
**THE CITY OF LOVELAND, OHIO**

**Counties of Hamilton/Clermont/Warren**  
**State of Ohio**

Know all men by these present; that we \_\_\_\_\_  
as principal and \_\_\_\_\_ as Surety, are held and firmly  
bound unto the City of Loveland, Hamilton, Clermont and Warren Counties, State  
of Ohio, in the sum of Five Thousand Dollars (\$5,000.00) to be paid to the said  
City of Loveland, Building Inspection Department, for payment whereof, well and  
truly to be made, we jointly and severally bind ourselves respectively and our  
heirs, executors and administrators. THE CONDITION OF THIS BOND IS SUCH  
THAT, WHEREAS, THE said Principal is engaged in the business of water  
tapping, in the City of Loveland, Hamilton, Clermont and Warren Counties, and  
such bond is for a period of one year

Beginning the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ and

Ending the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

subject to the provisions of the rules and regulations for installation and inspection  
of plumbing or water tapping work in said City of Loveland, Ohio, if the said  
Principal shall reimburse the said City of Loveland, Ohio for all actual damages  
caused by any act or omission of the said Principal while doing plumbing work or  
water tapping work in said City during said period to any property in said City and  
shall hold damages on account of the negligence or misfeasance of said Principal  
during said period, and from all cost and expense growing out of the defense of  
said claims, then this obligation shall be void and of no effect; otherwise to be and  
remain in full force, effect and virtue.

WITNESS THE HANDS OF THE PARTIES, this, the \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_.

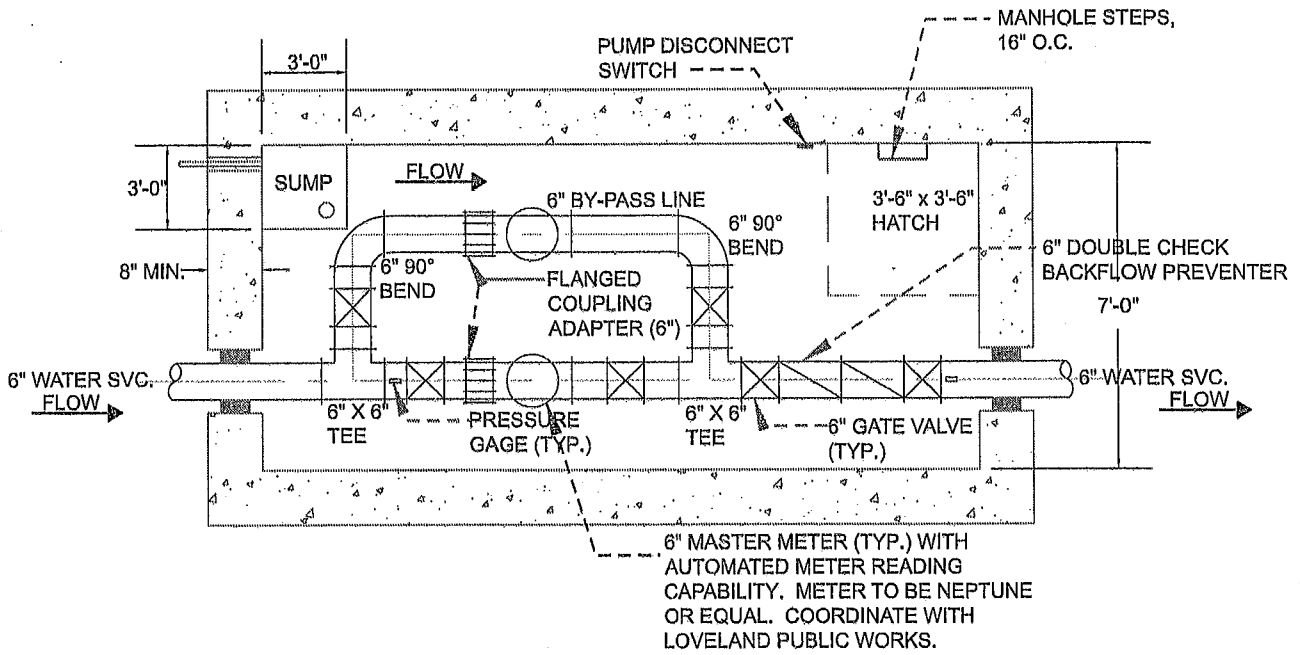
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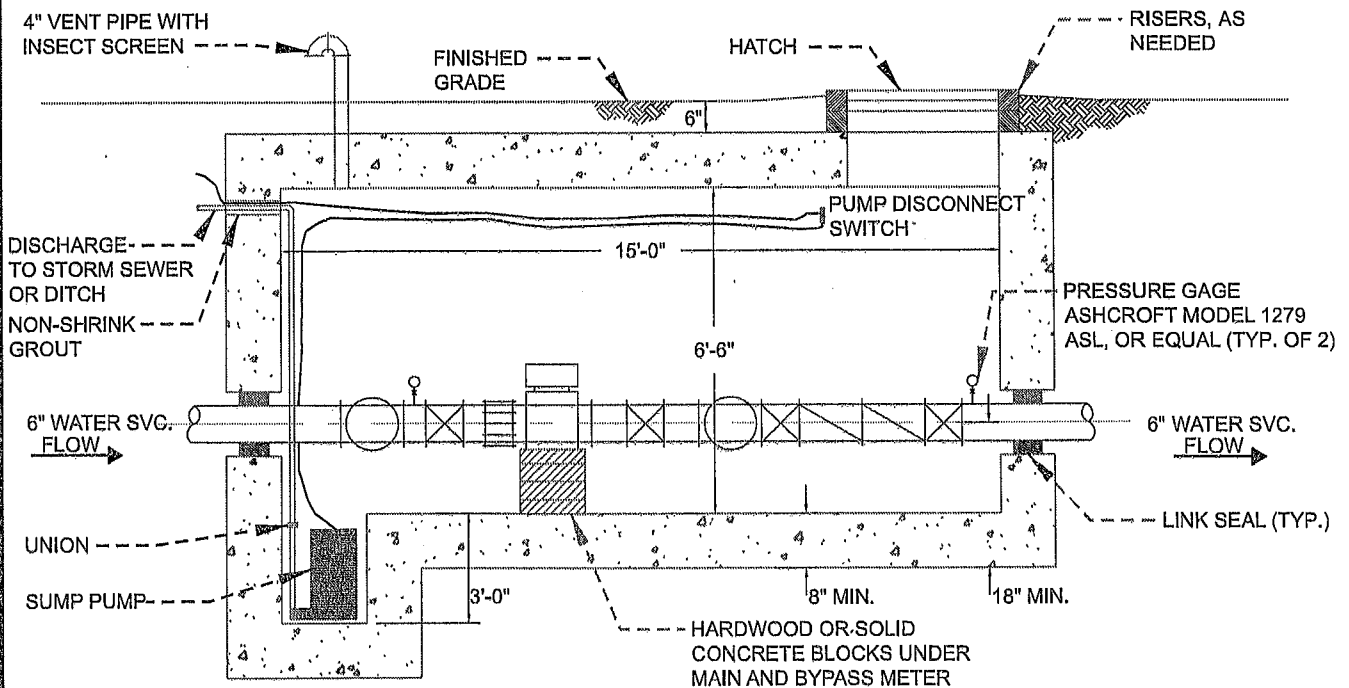
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\_\_\_\_\_

By: \_\_\_\_\_



**PLAN VIEW**  
NTS



**SECTION**  
NTS

City of Loveland, OH  
STANDARD DRAWING FOR  
OUTSIDE METER PITS  
AND SETTING 6" METERS

PAGE 1 OF 2 FEBRUARY, 2018

DRAWING NO.:  
LWW-300

No. Date Revision

## NOTES

1. PROVIDE ALL EQUIPMENT AND MATERIALS.
2. AUTOMATED METER READING CAPABILITY SHALL BE COMPATIBLE WITH MICROFLEX CE5320 HANDHELD READERS THAT OPERATE WITH EQUINOX VERSION 2.0.060110 SOFTWARE.
3. PROVIDE ZOLLER MODEL M53 SUMP PUMP WITH FLOAT SWITCH LEVEL CONTROL. POWER TO BE PROVIDED BY PROPERTY OWNER. ALTERNATIVELY, IF GRADING PERMITS, A GRAVITY DRAIN WITH SANITARY CHECK VALVE MAY BE PROVIDED.
4. HATCH SHALL BE BILCO TYPE 'J' 42" X 42" WITH LOCKABLE HASP AND STAINLESS STEEL HARDWARE. PITS LOCATED IN THE RIGHT OF WAY, SUBJECT TO TRAFFIC LOADS, OR SUBJECT TO PARKING SHALL BE BILCO TYPE 'J-H20.'
5. VAULT SHALL BE WATERTIGHT PRE-CAST OR CAST-IN-PLACE CONCRETE DESIGNED TO SUPPORT AN AASHTO H20 LIVE LOAD.
6. VALVE VAULT, PIPING AND ALL EQUIPMENT SHALL BECOME THE RESPONSIBILITY OF THE PROPERTY OWNER.
7. POST INDICATOR VALVE IS REQUIRED, BUT NOT SHOWN ON DETAIL. VERIFY TYPE AND LOCATION FOR PIV WITH LSF.D.
8. FOLLOW GREATER CINCINNATI WATER WORKS STANDARD DRAWING # 108-1A, 108-1B, AND 108-1C FOR VAULT CONSTRUCTION WITH THE EXCEPTION OF HATCH WILL REQUIRED TO BE 42" X 42" AND LADDER RUNGS ARE TO BE PERMANENTLY AFFIXED. OTHERWISE, SUBMIT SHOP DRAWINGS TO THE CITY OF LOVELAND FOR APPROVAL. INCLUDE ALL MATERIALS OF CONSTRUCTION AND PROVIDE STRUCTURAL DESIGN CERTIFICATION BY AN OHIO REGISTERED PROFESSIONAL ENGINEER.

			City of Loveland, OH
			<b>STANDARD DRAWING FOR OUTSIDE METER PITS AND SETTING 6" METERS</b>
			PAGE 2 OF 2 FEBRUARY, 2018
			DRAWING NO.:
			LWW-300A
			No. Date Revision

CONSTRUCTION SPECIFICATIONS:  
NO PRECAST PITS ALLOWED FOR BRANCHES 4" AND LARGER IN SIZE.

PIT CONSTRUCTION DETAILS:


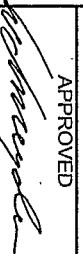
A) METER PIT FLOOR SHALL BE 6" CONCRETE WITH 42 LB. ROAD MESH INSTALLED. THE FLOOR, AT ITS SHALLOWEST POINT MUST BE A MINIMUM OF 6", SLOPED TOWARD THE DRAIN OR SUMP PUMP LOCATION. FLOOR SLAB MUST ALSO HAVE WATER STOP INSTALLED.

B) METER PIT WALLS SHALL BE 8" CONCRETE WITH 5/8" DIAMETER STEEL REINFORCING RODS 18" CENTERED HORIZONTALLY AND VERTICALLY. REINFORCING STEEL TO BE ANGLED AND EXTEND 18" CENTERED INTO TOP SLAB.

C) METER PIT TOP SLAB SHALL BE A MINIMUM OF 8" CONCRETE WITH 5/8" DIAMETER REINFORCING RODS, 6" ON CENTER-SHORT SPAN AND 18" ON CENTER-LONG SPAN. REINFORCING STEEL IN TOP SLAB SHALL BE LOCATED IN THE BOTTOM PORTION OF THE SLAB, 2" FROM THE SURFACE. 5/8" REINFORCING STEEL TO BE 2' LONG IN TOP OF SLAB DIAGONALLY AT CORNER OF OPENINGS. TOP SLAB SHALL BE SET TO FINISHED GRADE.

CONCRETE CONSTRUCTION

ALL CONCRETE USED IN CONSTRUCTION OF METER PIT WALLS, FLOORS, AND REINFORCED SLABS SHALL BE COMPOSED OF ONE PART CEMENT, TWO PARTS SAND, AND THREE PARTS AGGREGATE BY WEIGHT AND A MAXIMUM WATER CEMENT RATIO OF 0.50. BEFORE CONCRETE IS PLACED, THE FORMS, REINFORCEMENT STEEL, WATER STOPS, AND ANCHOR BOLTS SHALL BE RIGIDLY SECURED IN PROPER POSITION. ALL DIRT, MUD, WATER, DEBRIS AND OTHER FOREIGN MATERIAL SHALL BE REMOVED FROM THE SPACE TO BE OCCUPIED BY THE CONCRETE. CONCRETE SHALL BE DEPOSITED AND COMPACTED IN THE WALL SLABS BEFORE ANY REINFORCING STEEL IS PLACED IN THE SLAB AREA AND SHALL SETTLE AT LEAST 2 HOURS BEFORE THE SLAB CONCRETE IS POURED. CONCRETE SHALL BE PROTECTED FROM LOSS OF MOISTURE FOR A CURING PERIOD OF AT LEAST 7 DAYS.

 GREATER CINCINNATI WATER WORKS	<b>BRANCH / METER ENCLOSURE - GENERAL INFORMATION</b>	
	<b>METER VAULT CONSTRUCTION</b>	
APPROVED	DATE	STANDARD DRAWING
	1/4/13	108-1A

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE FREE FROM DIRT, OIL, GREASE, OR AVOIDABLE, LOOSE RUST WHEN PLACED IN CONCRETE. REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE DURING THE CONCRETE POURING OPERATION. IN NO CASE SHALL REINFORCING STEEL BE DRIVEN OR FORCED INTO CONCRETE AFTER IT HAS TAKEN ITS INITIAL SET.

WATERPROOFING

THE EXTERIOR SIDE OF PIT WALLS SHALL BE WATERPROOFED WITH TWO COATS OF WATER WORKS APPROVED WATER PROOFING SIMILAR TO ONE OF THE FOLLOWING MATERIALS APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS: THOROSEAL; U.S.S. CHEMICAL TARMASTIC #102; KOPERS BITUMASTIC SUPER SERVICE BLACK; DAMCHEX; AMERCOAT #78; SEALTIGHT MEL-ROL AND MEL-PRIME PRIMER. VOIDS BETWEEN PIPE AND WALL SHALL BE GROUTED WITH A HYDRAULIC CEMENT.

DRAIN

EACH PIT SHALL BE DRAINED BY MEANS OF A 4" DRAIN LEADING TO A GRAVEL FILLED SUMP 3X3X3'. THE PIT SHALL BE SLOPED TO A FLOOR DRAIN PLACED IN A CORNER OPPOSITE THE LID. THE WATER WORKS APPROVED FLOOR DRAIN CASTING SHALL HAVE A 4" OUTLET AND A RAISED OR BEEHIVE DOME GRATE SIMILAR TO WADE #1634 OR JOSAM #7324.

PIT LIDS

PITS NOT SUBJECT TO PARKING OR TRAFFIC SHALL BE CONSTRUCTED USING A WATER WORKS APPROVED LID SIMILAR TO A BILCO J-1AL (24"X24") OR JD-2AL (48"X48") AND HAVE A FACTORY DRILLED 1-3/4" HOLE IN THE TOP.

PITS CONSTRUCTED IN PARKING AREAS SHALL HAVE A GUARD POST SET IN THE GROUND AT EACH CORNER OF THE ROOF SLAB, OR HAVE THE ROOF SLAB RAISED AT LEAST 6" ABOVE GROUND LEVEL TO PREVENT PARKING ON THE PIT.

PITS SUBJECT TO HEAVY TRAFFIC LOADS SHALL BE EQUIPPED WITH WATER WORKS APPROVED LIDS SIMILAR TO: BILCO -1AL-H-20(24"X24"), J-D-2AL-H-20 (48"X48") OR JD-3AL-H-20 (48"X72").

(CONTINUED ON NEXT PAGE)



GREATER CINCINNATI

WATER WORKS

BRANCH / METER ENCLOSURE -  
GENERAL INFORMATION

METER VAULT CONSTRUCTION

APPROVED

DATE

1/4/13

STANDARD DRAWING

108-1B

**PIT LIDS**  
(CONTINUED)

PIT TOP MUST BE CONSTRUCTED TO MEET REQUIREMENTS FOR H-20 LOADING. ALL GCWW APPROVED LIDS SHALL BE EQUIPPED WITH STAINLESS STEEL HARDWARE AND MUST HAVE A 25 YEAR WARRANTY. LIDS SHALL BE CENTERED LENGTHWISE OVER THE DOMESTIC METER.

**REMOVABLE METAL LADDER**

THE REMOVABLE METAL LADDER SHALL BE AN APPROVED OSHA TYPE 1 INDUSTRIAL-HEAVY 250 POUND RATED LADDER THAT MEETS THE AMERICAN NATIONAL STANDARD SAFETY CODE FOR PORTABLE METAL LADDERS. ANSI A 14.2 - (LATEST REVISION). THE LADDER MUST REACH FROM THE PIT FLOOR AND EXTEND INTO THE PIT OPENING.



GREATER  
CINCINNATI

WATER  
WORKS

BRANCH / METER ENCLOSURE -  
GENERAL INFORMATION

METER VAULT CONSTRUCTION

APPROVED

DATE

1/4/13

STANDARD DRAWING

108-1C