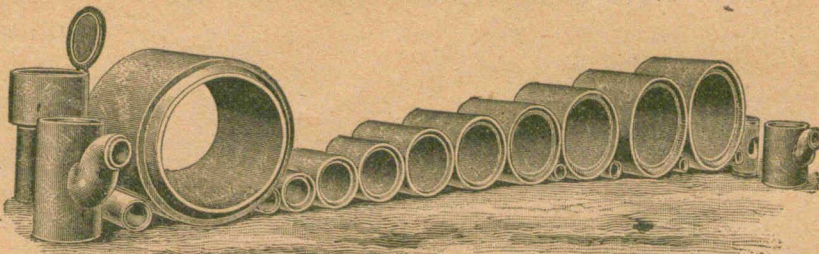


THE MUNICIPAL WORLD

E. North's Portland Cement, Concrete, Stone, Culvert  
AND SEWER PIPE.

North's Patent  
Plain Street Gully  
Water-trap Street Gully  
Double-trap Street Gully



North's Patent  
Automatic Valve  
Grate for  
Street Gullies.

We, the undersigned, have seen the "PORTLAND CEMENT, CONCRETE, STONE SEWER PIPE," manufactured by E. NORTH, London, Ont., and have had some experience of their use, and would recommend them to Municipal Councils and the public generally as suitable for Sewers and Culverts, where strength, durability and economy is desired:

Joseph Marshall, M. P.  
Robert Boston, M. P.,  
T. E. Robson,  
Matthew Day,

Ex-Warden, County of Middlesex  
Ex-Warden, County of Middlesex  
Ex-Warden, County of Middlesex  
Ex-Warden, County of Oxford

F. B. Talbot,  
William Robinson,  
W. G. Smith,  
John Corrie,

Bridge Commissioner, County Middlesex  
Ex-City Engineer, London  
Roadmaster, G. T. R.  
Road and Bridge Inspector, County Perth

E. NORTH'S PORTLAND CEMENT, CONCRETE, STONE CULVERT and SEWER PIPES are made from materials that improve with age—in the ground and in the water. These pipes extract the minerals from the water and gases from the air, closing up the pores of the pipe, and becoming more dense, the color changing to that of iron, and ringing like metal. The longer they remain in the ground, the greater their strength becomes, eventually becoming as hard as stone. They are considered by the leading men of Western Ontario to be superior to anything now in the market for culvert or sewer purposes. The townships using them find their work finished as they go. The work done is permanent, and will relieve them of the liability of law costs arising from damages caused by imperfect culverts, &c.

E. NORTH'S  
PATENT CONCRETE  
STONE STORM GULLIES  
AND . . .  
CATCH BASINS

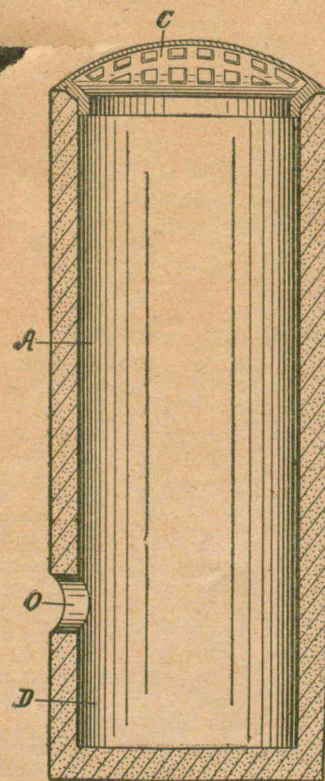
For Cities and Towns to take the water off the streets  
to the sewer or drain.

"Extract from report of T. V. Hutchinson Esq., Medical Health Officer, to the London Board of Health, on the NORTH Catch Basin and Sewer Trap:

"I have made a careful examination of NORTH's Catch Basin and Sewer Trap. It is made of Concrete, which becomes harder the longer it is in use. It has an automatic valve of iron, which is closed at all times to prevent the escape of sewer gas, except when water is flowing into the sewer. Three of these sewer traps have been in use in the city for some months, and so far no fault can be found with them. Of the sewer traps tried in this city, NORTH's is the better one; it is less apt to get clogged or out of order; it is made of Concrete, which does not corrode, but on the contrary becomes harder with age. The valve can at any time be lifted out, without disturbing the basin, or a new valve placed in, by merely lifting the top off. Taking everything into consideration, I believe NORTH's are the best, and besides being cheaper, will stand the test of time better than those made of iron."

The Board of Health, by resolution, unanimously recommended the City Council to adopt the NORTH Trap, for the City of London, for the reason that it was cheaper than any other apparatus of a similar nature, and it was much more efficient.

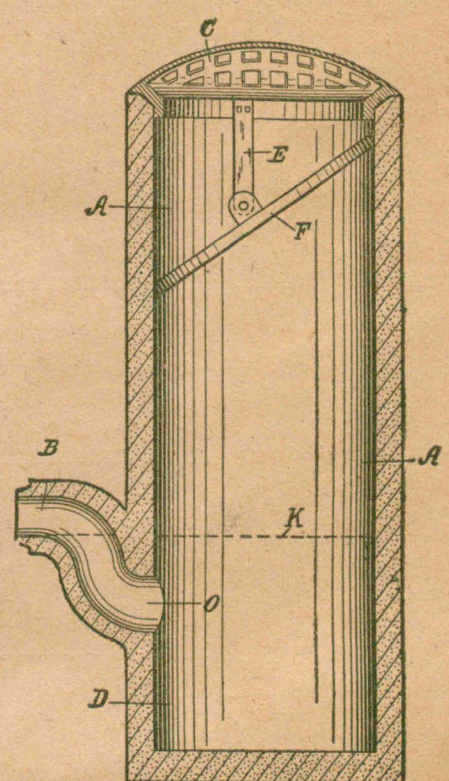
The manufacturer begs to call the attention of Sanitary Engineers, Health Inspectors, Boards of Health, Boards of Works, and the public generally, to this Improved Concrete Stone Gully, or Catch Basin, which will obviate and completely prevent the escape of this foul air or gas at this point, as it will be impossible for said foul air or gas to escape through the water trap, as set forth in the patent for this invention. This trap is inclined towards the pocket, and is cleansed by the agitation of the falling water, which agitates and carries into the pocket any sand, stones or other refuse which may temporarily lodge thereon. If the pocket should become filled with heavy refuse, by removing the grate, said pocket can be readily cleaned. It is claimed for these Improved Concrete Stone Gullies, or Catch Basins, that they are superior to iron, because they will not corrode; that they are superior to wood, because they will not rot; that they are superior to bricks and mortar, because they will not be affected by frost and water passing through them. But, on the other hand, the action of the water will tend to petrify and harden these Improved Concrete Stone Gullies, or Catch Basins, and thereby improve them, and this petrification going on for a number of years makes these Catch Basins as hard as stone. In regard to Style No. 2, the standard size is 7 ft. 6 in. long. This gives 5 ft. 10 in. above the water line. If the drain did not admit of this depth, then the automatic valve would assist in preventing the water in the trap from freezing.



Description of No. 1.

A—Is a Concrete Stone Catch Basin.  
C—Is an Iron Grate, which prevents bulky matter from getting into the Catch Basin, A. O—Is an opening in the Catch Basin, A, which communicates with the sewer or drain. D—Is a pocket, in which is collected all sand, gravel, or other heavy refuse, which passes through the grate C.

Standard size. Length 5 feet.  
Diameter 14½ inches.



Description of No. 2.

A—Is a Concrete Stone Catch Basin. B—Is a Water Trap, to prevent the escape of foul air or gas from the sewer. C—Is an Iron Grate, which prevents bulky matter from getting into the Catch Basin, A. D—Is a Pocket, in which is collected all sand, gravel, or other heavy refuse, which passes through the grate, C. F—Is an Automatic Valve. K—Water Line. O—Is an opening in Catch Basin, commun'g with sewer or drain.

Standard size. Length 7 feet, 6 inches.  
Diameter 14½ inches.

Prices—Complete at Factory \$7.50. With Automatic Valve and Trap \$10.50.

Prices—At Factory complete, \$13.60; without Automatic Valve Trap, \$11.80.

AT THE WESTERN FAIR, 1892, THE CONCRETE, CULVERT AND SEWER PIPE EXHIBIT WAS AWARDED SILVER MEDAL.

EBENEZER NORTH, MANUFACTURER

LONDON

Works corner Mt. Pleasant and Talbot Sts.  
Opposite Carling's Brewery.  
Telephone: Works 849

ST. THOMAS

Works, Elm Street, on Port Stanley Railroad near Fair Grounds  
Telephone 228.

LONDON

OFFICE:  
Corner Grosvenor and Wellington Sts  
Telephone 837.