

**FRONT VIEW**

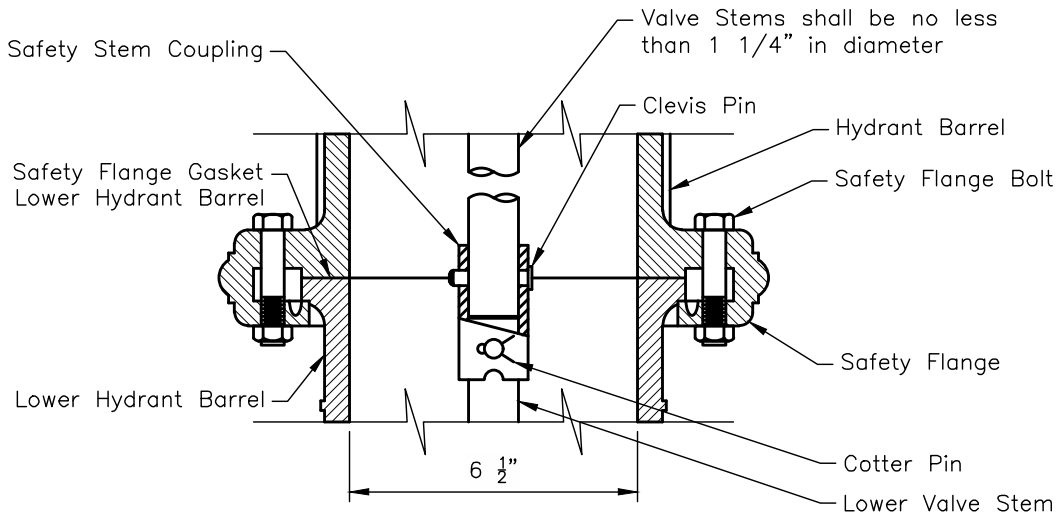
**SIDE VIEW**

Backfill shall consist of granular material conforming to Item 304 or other approved suitable material, power tamped in layers not exceeding 4 inches in thickness, loose measurement. This granular backfill shall extend from the bottom of the pit or trench to 6 inches below the existing or proposed surface of the surrounding area. The cost of furnishing and placing this backfill shall be included in the price bid for each fire hydrant. All fire hydrants shall be installed with concrete blocking against undisturbed earth.

Approved By:  
  
 City Engineer, EMH&T Inc  
  
 City Service Director

STANDARD DIMENSIONS  
 FOR  
 STANDARD FIRE  
 HYDRANT DETAIL

<b>CITY OF GROVE CITY, OHIO</b>		
STANDARD CONSTRUCTION DRAWING		
Revised	Sheet	Drawing No.
January 2024	1/3	C-GC-31



**BREAK FLANGE & SAFETY COUPLING SECTION**

**FIRE HYDRANT NOTES:**

Type of hydrant: The hydrant shall be the post type traffic model made of cast iron as shown hereon. It shall have a breaking connection that prevents loss of water when the upper and lower sections are separated by a smashing impact. The hydrant shall be of the compression type with the valve opening in a counter-clockwise direction against the pressure and closing with the pressure. The valve end of the stem or valve rod shall be so constructed as to eliminate contact of dissimilar metals in the presence of moisture.

The stem or valve rod shall be constructed in one continuous length from the valve to the breaking coupling or to the bottom of the extension piece where extensions are required. The stem or valve rod between the valve and operating nut shall be made of stainless steel and have a 1-1/4 inch minimum diameter after machining. The breaking coupling shall fit over the valve rod and be located at the proper point to conform to the breaking connection in the standpipe. All bolting below grade shall be stainless steel.

The barrel shall have an area of not less than 120 percent of the valve opening. The type of valve shall be rubber with the diameter of the port in the seal ring being a minimum of 4-1/4 inches.

All interior working parts of the hydrant including valve and valve seat shall be such that they can be removed through the top of the standpipe without excavation. The upper section of the standpipe above the ground line shall be adjustable so that the nozzles can be rotated to any desired position. All drip or drain openings shall be eliminated or plugged with a threaded, properly sized plug of the same material as the hydrant casting. The hydrants shall be equipped with rubber-faced valves. The hydrant shall be rated for a pressure of 250 p.s.i. All lubrication shall be accomplished by using NSF/FDA food grade grease.

Reference Specifications:


All fire hydrants shall conform with the latest American Water Works Association Standards, C-502 and the requirements of the City of Grove City and the Jackson Township Fire Department as enumerated herein. All specifications shall refer to the latest effective editions.

Approvals and Certifications:

The following hydrants have been approved for use:

- Clow - "Eddy"
- American Darling - "Mark 73"
- Mueller - "Super Centurion"

(Fire Hydrant Notes Continued to Sheet 3)

<p>Approved By:</p>  <p>City Engineer, EMH&amp;T Inc</p>  <p>City Service Director</p>	<p align="center">STANDARD DIMENSIONS FOR STANDARD FIRE HYDRANT DETAIL</p>	<p align="center"><b>CITY OF GROVE CITY, OHIO</b></p>		
		<p align="center">STANDARD CONSTRUCTION DRAWING</p>		
		<p>Revised January 2024</p>	<p>Sheet 2/3</p>	<p>Drawing No. C-GC-31</p>

(Fire Hydrant Notes Continued from Sheet 2)

The approved hydrants listed above must conform to all the requirements contained herein. "Stock" models will not be accepted.

Alternative "equals" to the hydrants listed above will be considered. The manufacturer shall submit supporting data to the City for review and consideration.

Any fire hydrants, delivered to a project within the City or to the City, which fail to conform to the approved information on file with the City, shall be rejected.

With each delivery shipment of fire hydrants, the hydrant manufacturer shall certify that the hydrants conform to the information approved and on file with the City. The certificate shall include the model or identification numbers of the hydrants being delivered and approval date of the information on file with the City. The documentation does not constitute approval or final acceptance of the specific hydrants delivered.

**Inspection:**

Prior to installation, all fire hydrants shall be inspected by the City Engineer or a City representative and by the Chief of the Jackson Township Fire Department or a Fire Department representative. The hydrants shall receive either a conditional acceptance or a rejection. Conditional acceptance shall mean that the hydrants may be installed.

Upon installation, each hydrant shall be tested for operation and leaks with a member of the Jackson Township Fire Department present during the test, and shall receive either operational acceptance or a rejection.

The City reserves the right to reject any and all fire hydrants found to be in non-compliance with any of the requirements stated herein at any time during the acceptance, or above described approval, process. Any fire hydrants which are rejected and which cannot be brought into compliance with the requirements as stated herein shall be removed from the project site, storage site, or the work site at no expense to the City.

The final field acceptance shall govern over any document approval and shall be based on all the work being completed; including installation, testing, operation and painting.

**Installation:**

The fire hydrant shall be installed as specified herein and in accordance with the City of Grove City Standard Drawing No. C-GC-32, the City of Columbus Standard Water Drawings No. L-6637, Type A Setting, No. L-6409, Type B Setting, or as specified by the City Engineer.

The base section of all fire hydrants shall be set to an elevation which will be correct for the proposed grade of the street. The elevation of the top barrel section shall be set so that the grade line of the hydrant is at the established or proposed finished grade, as indicated on the construction drawings, through the installation of hydrant extension sections, as needed.

The hydrant nozzles shall be turned as directed by the engineer or his representative.

**Painting:**

Final paint color shall be two coats of Sherwin Williams Industrial Enamel Alkyd Coating Safety Yellow B54Y37 or equivalent. Prior to painting, samples shall be submitted to the Jackson Township Fire Department for approval. After operational acceptance, all hydrant surfaces above the ground line shall be cleaned, washed, and wire brushed, and all surfaces or spots that require touching up shall have one coat of primer paint applied. When all the surfaces have been primed and are dry, then all hydrant surfaces shall receive two (2) coats of the approved enamel.

**Materials and Workmanship:**

All machined parts shall be true to gauge so that they will be interchangeable between hydrants of the same make and size.

When required, non-adjustable hydrant wrenches, properly sized to the specified operating nut dimensions and fabricated by the hydrant manufacturer, shall be supplied.

 City Engineer, EMH&T Inc	<b>STANDARD DIMENSIONS FOR STANDARD FIRE HYDRANT DETAIL</b>	<b>CITY OF GROVE CITY, OHIO</b>		
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		Revised January 2024	Sheet 3/3	Drawing No. C-GC-31