

**NOTES:**

Refer to other Standard Details for remaining parts of the manhole. Also refer to the Contract Specifications. At no time are these details to supercede, but to work in conjunction with other standards and specifications.


Manholes with elevated inverts shall have the bench ramped to prevent splashing erosion. Ramp height shall be approximately 6" high.

A proper channel shall be constructed within the existing manhole or other structure at which the connection is to be made to direct the flow to the existng outlet in a manor which will tend to create the least amount of turbulence. Any portion of the existing structure which would interfere with such construction shall be removed.

Concrete channels formed inside precast felxible-joint manholes shall be placed so as not to interfere in any way with the flexibility of the joint. The channel shall be constructed the same size as the inside diameter of the existing pipe.

At no time is any of the material to be used for creating the bench and channel is to enter the pipe. If material enters the sewer, it is to be removed immediately and never simply flushed down the sewer.

Pipe shall not extend into a manhole beyond the inside face of the manhole wall as measured at the springline of the pipe. Field cutting of pipe to be used at manholes shall be performed in a neat workmanlike manner, using methods approved by the engineer. Exposed ends of reinforcing steel shall be cut flush with the pipe end.

	<b>CITY OF HOLLAND, MICHIGAN</b> Holland Board of Public Works Water & Wastewater Department 625 Hastings Ave., Holland, MI 49423 Phone: (616) 355-1643 - Fax: (616) 355-1560 Director: John Van Uffelen, P.E.	<b>SANITARY MH BENCH &amp; CHANNEL          STANDARD DETAILS</b>	
	DRAWN BY DJS	SCALE NONE	DATE 02-28-2005
APPROVED BY DLW	SHEET SAN-1	DWG FILE Bench and Channel.dwg	