

- v = Average velocity of flow in the connector pipe, in feet per second, assuming a full pipe section
- d = Diameter of connector pipe, in feet
- S = Slope of connector pipe

The term $1.2 v^2/2g$ includes an entrance loss of 0.2 of the velocity head.

803 CONSTRUCTION STANDARDS

The following sections present the standards for construction of storm sewer systems. Detailed specifications for specific parts of the following standards are presented in the STANDARD SPECIFICATIONS for the Clark County Area including all future amendments. Where these detailed STANDARD SPECIFICATIONS are available, they shall be considered as an addition to the generalized standards presented in the following sections. The designer shall be responsible for referencing the most current version of the STANDARD SPECIFICATIONS.

803.1 Pipe

803.1.1 Size

The minimum allowable pipe size for storm sewers is dependent upon a practical size and length for maintenance and inspection of the storm sewer. Therefore, the minimum pipe size for storm inlet laterals to the storm sewer mains and for storm sewer mains shall be 18 inches in diameter for round pipe or shall have a minimum flow area of 2.2 square feet for other pipe shapes.

803.1.2 Material and Shape

The material and shape of the storm drain will be in accordance with the Standard Specifications. The use of concrete pipe will be encouraged for Regional Master Plan facilities and facilities to be maintained with CCRFCD funds.

Square or rectangular reinforced concrete box (RCB) pipe in accordance with ASTM C-789 or C-850 is acceptable for use in storm sewer construction.

Other pipe materials may be used for storm sewer construction upon approval by the local entity and ~~or~~, in cases involving CCRFCD funding, approval from the CCRFCD will also be required. Documentation must be submitted for review which shows that the subject pipe material has a design life similar to the above materials and that the interior lining, if any, will maintain the design Manning's "n" value for the life of the pipe material.

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