

F. CULVERT DESIGN

Cross culvert conduits and box structures shall be designed to pass the peak flow from the 10-year storm without damage to the roadway in accordance with normally accepted engineering practice based on good judgment and experience in design, construction and maintenance. Culvert capacity may be determined on the basis of inlet and outlet control in accordance with Bureau of Public Roads design procedures.

G. OTHER CRITERIA

1. Match pipe crowns when pipe sizes change.
2. Siphons are generally not acceptable, but may be allowed at the discretion of the Director of Public Works.
3. Inlets shall be sized per applicable City or County standard.
4. Inlets shall be spaced such that gutter flow does not spill over the curb or have a width greater than 8 feet.

H. STORM DRAIN DESIGN CRITERIA

Describe allowable flow rates, required storage volumes, gutter flow widths, among other items. The drawings on types of basins, landscaping and irrigation are for those projects installing one of the types of basins shown on those drawings (SD27-SD31). These show acceptable details for those types of detention facilities. This does not preclude the use of other types of detention. The necessity for function, ability to be maintained, safety, etc., must be included in any other proposed methods, which may be approved by the City Engineer.

ENGINEERING DEPARTMENT

CITY OF MERCED, CALIF

STORM DRAIN DESIGN

SD-19

DRAWN: K.E.

APPROVED BY:

DATE

ENG.

Alan M. [Signature]

8-5-91

REVISED

CITY ENGINEER

SHEET

OF