

10 STORM DRAINAGE FACILITIES

10.1 Introduction

Road storm drainage facilities collect storm water runoff and convey it through the carriageway right-of-way in a manner that adequately drains the carriageway and minimizes the potential for flooding and erosion to properties adjacent to the right-of-way. Storm drainage facilities consist of curbs, gutters, storm drains, channels and culverts. The placement and hydraulic capacities of storm drainage structures and conveyances shall be designed to take into consideration damage to adjacent property and to secure as low a degree of risk of traffic interruption by flooding as is consistent with the importance of the road, the design traffic service requirements, and available funds.



Photo 10-1: Storm Water System Planning

Storm drainage design is an integral component in the design of road and transportation networks. Drainage design for road facilities must strive to maintain compatibility and minimize interference with existing drainage patterns, control flooding of the road surface for design flood events, and minimize potential environmental impacts from road related storm water runoff. To meet these goals, the planning and coordination of storm drainage systems must begin in the early planning phases of transportation projects.

System planning, prior to commencement of design, is essential to the successful development of a final storm drainage design. Successful system planning will result in a final system design that evolves smoothly through the preliminary and final design stages of the transportation project.

10.2 Storm Water Design Objectives

The objective of road storm drainage design is to provide for safe passage of vehicles during the design storm event. The drainage system is designed to collect storm water runoff from the road surface and right-of-way, convey it along and through the right-of-way, and discharge it to an adequate receiving body without causing adverse on- or off-site impacts.

Storm water collection systems must be designed to provide adequate surface drainage. Traffic safety is intimately related to surface drainage. Rapid removal of stormwater from the pavement minimizes the conditions which can result in the hazards of hydroplaning.

Design Manual Storm Sewer Design Chapter 4 Drainage

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