

OPEN DRAINS AND CHANNELS

1. INTRODUCTION

1.1. Definition

An open drain or channel system generally consists of a secondary drainage system, with a network of small drains attached (micro-drainage). Each serves a small catchment area that ranges from a single property to several blocks of houses (WHO 1991). These small drains bring the water to a primary drainage system, composed of main drains (also called interceptor drains), which serve large areas of the city. Thereafter these drains are generally connected with natural drainage channels such as rivers or streams (WHO 1991).

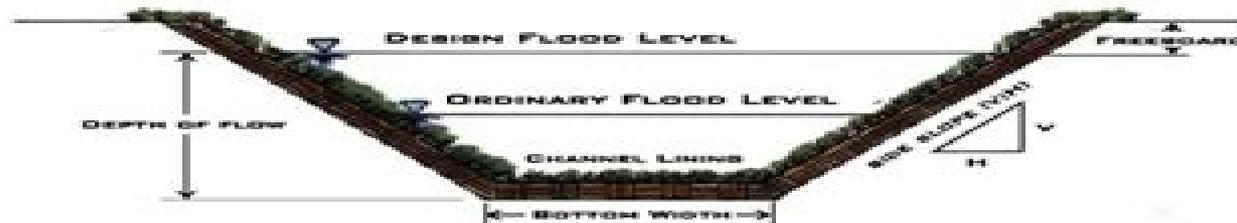


Figure 1: Typical Channel Cross Section

1.2. Purpose

An open drain or channel is used to provide discharge capacity required for flood prevention, drainage, other authorized water management purposes, or any combination of these purposes. (NRCS, IDAHO February 2003)

1.3. Objectives of the Open Drains and Channels Design

The following are the objectives in designing an open drains or channels:

- To design an open drains or channels having the capacity to carry or contain the design flood discharge to avoid or mitigate overbank flooding.
- To design a channel lining having the ability to withstand the flow velocities or shear stresses on the channel lining to prevent erodes.
- To design an economical and efficient open drains or channel section and mitigate any adverse impacts.

2. DATA REQUIREMENTS

2.1. Design Criteria

In general, the following criteria should be used for open drain and channel design:

Design Of Open Channels

Minjie Lin



Design Of Open Channels:

The Enigmatic Realm of **Design Of Open Channels**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Design Of Open Channels** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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