

468. LINED WATERWAY OR OUTLET

DESIGN AND CHECK DATA REQUIREMENT

The following items must be documented for the Lined Waterway or Outlet. The following items shall be included:

Survey Record in Engineering Field book

1. Slope of each design reach (hand level survey permitted when slope is steeper than 2 per cent).
2. Cross section (minimum one per reach at most restrictive station or location).
3. Length of each reach and total length.
4. Plan view, if part of a system.

Design Record

1. PA One-Call compliance.
2. Peak discharge calculations.
3. Velocity calculations using appropriate "n" value.
4. Design for each reach, note lining type and design source.
5. If part of system, hydraulic and structural design of side inlets, drop structures, and energy dissipators.
6. Operation and Maintenance Plan.

Construction Record

1. Measurements to show length, width and depth of completed waterway (paced length acceptable when not for payment).
2. Slope or grade of waterway.
3. Type of lining material (if rock, measure size) and other related structures.
4. Source of lining or other specified materials
5. Subgrade preparation.
6. Items of Performance That Can Be Certified by the Cooperator
 - a. Disposal of stumps, logs, brush, and other debris resulting from site preparation.