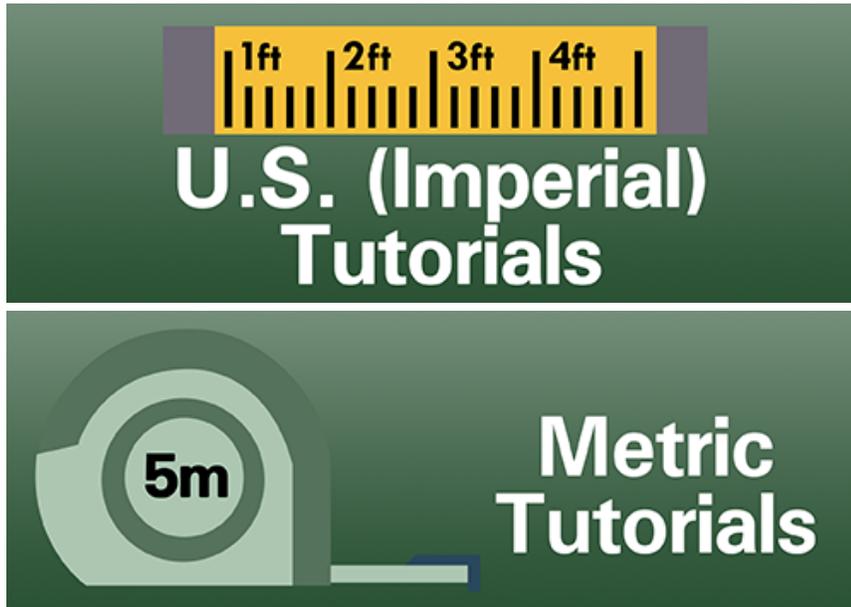# xpdrainage Help Documentation

Welcome to the xpdrainage Reference Library

This Reference Library contains Help documentation and self-guided training materials.

Please browse through the contents of the Reference Library by using the contents tree on the left of the Wiki page or by using the search tool option on the left sidebar!

Wait... what is xpdrainage**?**

xpdrainage is an automated stormwater design software program that provides comprehensive assessment of stormwater designs and is enhanced by "one-click" optimizing for all Runoff Reduction practices. Unlike many other tools and spreadsheets that assist with facility planning, xpdrainage is integrated with CAD to shorten the design time, whatever your workflow.

 xpdrainage will help you to complete projects before their deadlines, present very clear and understandable reports to constituents and be more confident in your overall design because it is integrated with your current CAD drawing software.

Applications for Residential Development and Sustainable Urban Stormwater Design:

- Stormwater System Retrofits
- On-site detention design
- LID stormwater control systems
- Treatment Trains
- Water Quality volume assessments
- Automation of the Unified Stormwater Sizing Process

WHY xpdrainage?

CAD Integration. Using separate tools for your stormwater facility design (spreadsheets, hand calcs or other 3rd party tools) and your CAD layout causes several problems: a disconnect between what the tools "understand", and time loss trying to translate information from one tool to another. xpdrainage integrates your proposed stormwater design and your CAD drawing so that your stormwater system is better optimized and quickly translated back to your site schematic.

Clear Visualization of Design. Demonstrating system performance visually against live network data – clearly showing there is adequate space for stormwater controls on site and that the levels of your design are correct and work effectively – builds trust and confidence in results submissions. Traditional LID design using spreadsheets and hand calculations leave gaps that aren't visible until you are too far into the planning process. xpdrainage removes any guess work and allows you to see profile and plan views of your design to visualize how much space you are using and how your system is connected.

Simplified Workflow. An easy to use interface guides you through the design process with ribbon and toolbox options presenting a logical workflow, which helps to quickly move from beginner to advanced user. Built into the xpdrainage interface is its intuitive workflow navigation that

guides the user through the design process, making it easy to pick up and learn. The software responds to your current action to present only valid and sensible options and guide you what to do next.

Use Natural Flowpaths. The "Deluge" feature provides a fast method of analysis for identifying overland flow patterns. This gives you the opportunity to bring stormwater management to the front of the design process by placing stormwater controls in locations that make the most sense and require the least amount of site excavation.

A Treatment Train Approach. Stormwater systems can be complex but they are often designed separately ignoring important effects of downstream water levels. Designing with connected stormwater controls saves time and avoids costly mistakes. Unlike traditional methods of LID design, xpdrainage allows stormwater management through a treatment train approach. EPA Best Management Practices encourage the use of measures that include multiple stormwater controls in order to limit peak discharge and to address water quality concerns.