

Permanent (Post-Construction) Stormwater Management Model Ordinance:

The **gory** details!

Basic Points

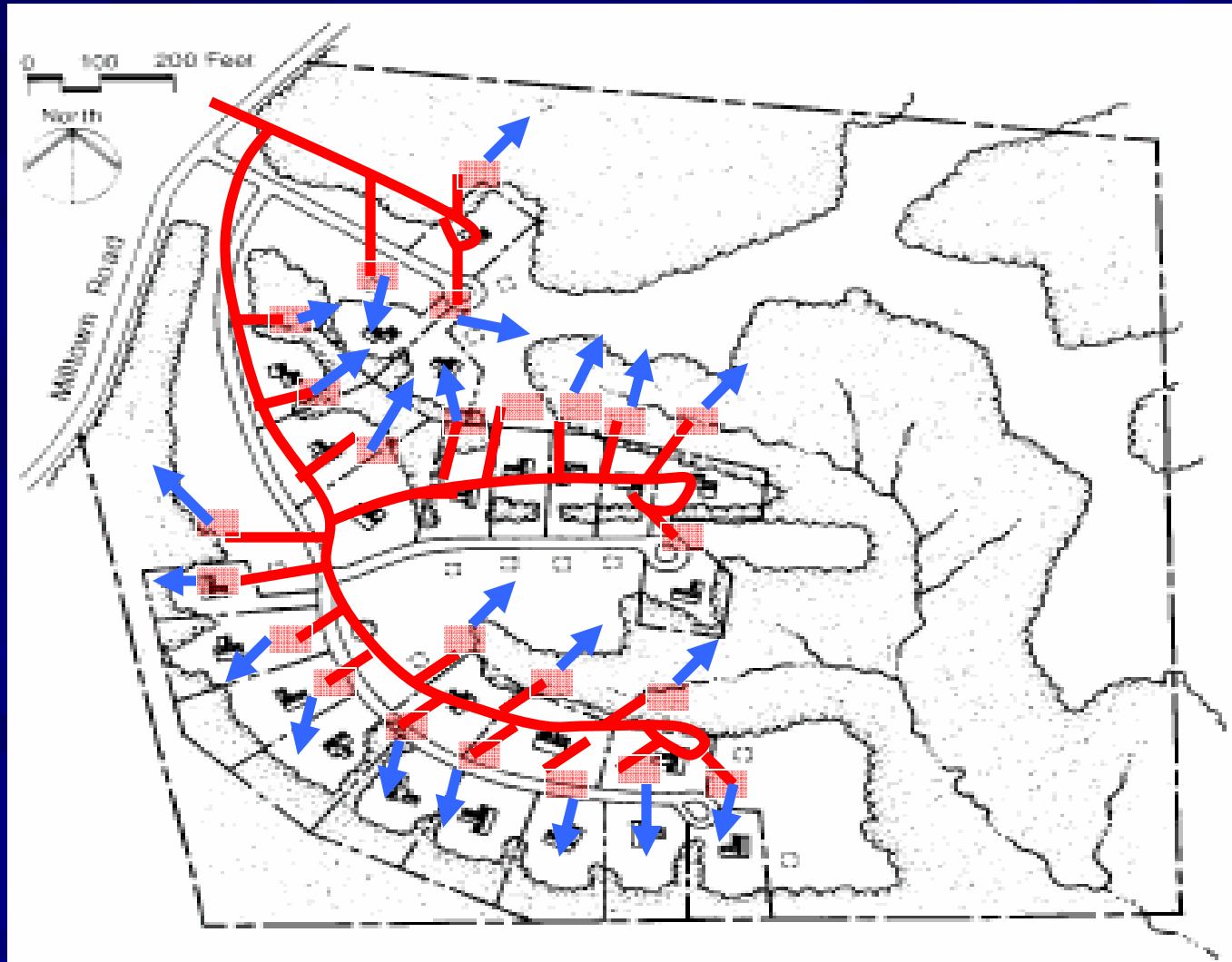
- Designed to comply with Federal requirements for local regulations for permanent stormwater management
- Developed to be consistent with current proposed changes to Alteration of Terrain rules – but goes beyond!
- Performance Based and encourages the use of nontraditional and non-structural approaches = minimize SW and mimic natural conditions.

Applicability

- As Zoning Ordinance - general provisions apply to any land disturbance – even individual home sites (but up to local municipality)
- Formal plan required for 20,000 sq ft + (need to specify who reviews/approves)

Maximum 10% Effective Impervious Cover

Total vs. Effective Impervious Cover



Protection of Natural Hydrologic Features and Functions

Goal: Minimize disturbance to the natural landscape to retain as much natural stormwater treatment as possible

- Minimize soil compaction, grading, cut-and-fill (10')
- Limit contiguous area of disturbance (not including roadway) (model=20,000 sq ft)
- 6" topsoil required in disturbed areas

Protection of Natural Hydrologic Features and Functions, cont'd

- Maintain integrity of existing surface water resources
- Minimum **50' No Disturbance Buffer**
- Roadway/driveway water crossing standards

Peak Flow & Total Volume

- BMPs are required to keep both peak flows and total volume of discharge equal pre- and post-construction
 - Peak equal for 2 yr and 10 yr storms
 - Volume = 90-110% of 2, 10, 25, and 50 yr storms)
- Local model applies even if AoT exempts

Water Quality

- Applies if greater than 35% of site is disturbed or if has greater than 25% ACTUAL impervious cover
- Compliance with recharge = assumed to meet water quality treatment requirements
- If not using recharge – must do pollutant loading analysis

Recharge

- Goal: replicate natural, undisturbed recharge conditions
- Requirement varies depending on soil characteristics on the site
- Must pre-treat to remove sediment to preserve recharge/infiltration capability

Recharge, cont'd

- Drain in 72 hours (mosquito control)
- Requires adequate separation from high groundwater
- Restrictions to prevent groundwater contamination (no recharge for “high-load areas”)

Operations and Maintenance Plan

- Goal: Ensure long-term functioning of stormwater treatment facility
- This section needed to meet Federal NPDES program requirements
- Requires local record-keeping

Local Implementation

- Encourage use of outside consultant review of proposed Stormwater Management Approaches
- Could be done as Regulation v. Zoning
- Carefully evaluate level of applicability and local enforcement capabilities