

Water line testing (if applicable). Hydrostatic testing of water mains will be directly observed by the municipal representative. Tests of pipelines will be conducted using the appropriate formulae for pressure and duration as required by ordinance or common practice. Chlorine dosing of the mains and bacteriological testing will be the responsibility of the contractor or developer. Such test reports shall be provided to the municipality as well as the Authority (if applicable).

General Notes:

Storm inlets within paved areas shall have bicycle-safe grates. Piping may not enter an inlet box at the corner; all corners must be intact. Weep holes must be provided at subbase grade unless base drain is to be installed. Concrete inverts should be provided in all boxes, and all pipe penetrations should be grouted inside and out. **Offsetting of inlet tops due to faulty stakeout will not be permitted** All Type C inlet tops should be pinned to the curb.

The municipal representative will assist the contractor with any questions regarding technical aspects of the work or acceptability, but at no time will approve changes to any plan or specification. The municipal representative will advise the contractor or developer of any possible rejection of the work. Site safety is completely the responsibility of the contractor/developer.

All BMP's shall be inspected at critical stages of construction as outlined on the approved plans. **It is the responsibility of the contractor / designer / applicant to ensure that there is adequate infiltration at all BMP's designed to infiltrate. Failure to properly infiltrate may result in revocation of a Stormwater permit.**

The municipal representative shall be notified to observe the subgrade of all infiltration BMP's prior to backfill and upon completion of backfilling operations. The municipality is not responsible for ensuring that BMP's will function as designed.

Construction Observation Procedures for Land Development Projects and Stormwater Management Facilities in Swatara Township

The contractor and/or developer are responsible for notifying the Township Codes office in writing at least seven (7) business days prior to the contractor physically moving a workforce onto the site and commencing work.

The initial notification shall include the date and time of a pre-construction conference that should be coordinated with the Dauphin County Conservation District and the Township representatives to review the Erosion and Sedimentation Control plan, the Post-Construction Stormwater Management (PCSM) Plan, and/or the NPDES permit.

Periodic observations will continue throughout the project duration. However, notification is required for **initial startup** of any public improvement operation (e.g., storm sewers, sanitary sewers, waterlines, paving, etc.) involving work which is a part of the Improvement Guarantee, or which is to be dedicated to the municipality, or which affects existing municipal facilities (e.g., connecting new storm sewers to existing systems).

Periodic routine visits will be made during operations such as BMP construction, storm sewer installation, and bulk cut/fill. The frequency of these visits will be determined on a case by case basis and will depend upon the scope and progress of the operation.

Some of the specific operations requiring mandatory notification are listed below. **At least two (2) business days' notice** is required. We will not be held liable for any delays caused by failure of the contractor or developer to notify in a timely manner.

When roadway subgrade is completed, prior to installation of subbase. **Any subbase placed upon uninspected subgrade will be deemed unacceptable.** Subgrade will be checked for crown and proof rolled for compaction. All soft areas must be repaired, and, if necessary, a second inspection will be arranged. If subgrade is satisfactory, approval will be given to install subbase.

When subbase is complete.

Subbase will be checked for crown, compaction, and depth. Curb reveal will also be checked at this time. When subbase is found to be acceptable, approval will be given to install base or binder course of paving. Note: if subbase has been in place for one week or more, three days' notice is to be given prior to paving to allow a re-inspection of the subbase.

Prior to curb placement.

Curb subgrade will be checked for stability. We are not responsible for curb grade or alignment of string lines beyond a reasonable visual observation. Actual curb placement will be observed on a part time or full-time basis as deemed necessary. All curb is to be pinned at inlet tops. Any curb out of alignment will be rejected.

Prior to paving base or binder courses. See above item regarding notification for subbase over one week old.

Paving will be observed on a part time or full-time basis as deemed necessary. Paving will be checked for depth, proper compaction (visually), tack-coating of vertical surfaces, correct materials, sufficient temperature, and curb reveal.

The developer and/or contractor will be responsible for random core testing for depth of any pavement which has been placed without the benefit of observation due to lack of timely notification.

Prior to paving of wearing course. It is recommended that at least three days' notice be provided prior to wearing course, especially for projects where base or binder course has been in place for an extended time. A "walk-through" will be arranged in order to delineate any potential problems. Approval to pave will not be given until all problems have been resolved. Paving will be observed on a part time or full-time basis as deemed necessary. Paving will be checked for depth, proper compaction (visually), cleaning and tack-coating of existing pavement (if necessary), correct materials, sufficient temperature, curb reveal, smoothness of joints, and appearance. All joints shall be sealed within 2 weeks of paving.

Sanitary sewer/manhole testing (if applicable). Inspections shall be coordinated with the Swatara Township Authority.