



# Memorandum

July 7, 2017

To	Specification Holders - Developers		
Copy to	William Weaver		
From	Melissa Smith, P.E.	Owner	LPTA
Subject	May 2017 Standard Specifications Changes from 2011 Version	Job no.	8618490.3400

All,

The following is a list of significant differences between the current 2011 Specifications and the 2017 Specifications that the Authority adopted in May 2017:

1. General Instructions:

- Definition section has been expanded.
- Notification period of requests for construction observation has been increased to 72 hours from 24 hours.
- Normal working hours for construction observers has been changed to 6:30 am to 2:30 pm.
- Items required prior to beginning construction have been expanded.

2. Section 01010:

- Has been revised to require that the proposed subsurface utilities to be designed and installed maintaining a five (5) foot minimum horizontal separation and an eighteen (18) inch minimum vertical separation from all existing and proposed sanitary sewer facilities and appurtenances, except for water mains, which shall maintain a ten (10) foot minimum horizontal separation and an eighteen (18) inch minimum vertical separation, unless approved otherwise in writing by the AUTHORITY.
- Working hours, holidays and days construction observers are not available are now provided.
- Initial deposit has been increased to \$1,000 for Developers.

3. Section 01300 and attachments:

- Requires initial submittals, such as permits, schedules and shop drawings, to be submitted electronically instead of by paper copy.
- Requires declaration of covenants and restrictions, maintenance agreements, articles of association, or trust agreements for private collection sewers to be provided during the planning phase.

- Requires all sewers located within wetlands to be constructed of DIP with Protecto 401 epoxy lining. Removed requirement for concrete encasement through wetlands.
  - Requires an access right-of-way and vehicular access for all off street sewers.
  - Requires GPS locations of the center of manholes and the locations of tees in the mains and observation tees to be provided with the record drawings.
  - Requires electrical boxes to be located outside of the sanitary sewer easements.
  - Allows contractor to use SDR 26 pipe in fill areas instead of DIP, if they extend the stone bedding to the virgin ground with prior approval by the Authority.
4. Section 01561: This section was added to the overall documents "Protection of property from wastewater backups, spills and discharges".
5. Section 01570: The traffic control section was made more stringent than the previous version to reflect the requirements of the replacement projects. Traffic control plans are now required to be submitted and approved prior to construction.
6. Section 022221:
- Developer is now responsible for paying for a qualified independent lab to perform soil and compaction testing during trench backfilling operations when required by PennDOT.
  - Backfill compaction requirements have changed to reflect the Township's request and new/proposed requirements for the subdivision and land development ordinance (SALDO). **Stone backfill is required for all trenches in existing roads and in future private/public road and roads to be dedicated to the Township if a trench is cut to install the sanitary sewer main following grading per new detail TR-1B. If the sewer is installed at the same time mass grading/fill is involved, suitable earthen backfill may be used per new detail TR-1C.** Under the 2011 Specifications, stone was not previously required at all in trenches located within future roads as long as they could meet the compaction requirements.
7. Section 02605:
- Requires existing manholes that developers are tying into to pass a vacuum test, if the tests fail, the existing manholes will either need to be rehabilitated or replaced.
  - Requires anti-floatation collars on manholes in easements that are greater than 11 feet deep (4-foot diameter) or 10 feet deep (5-foot diameter).
  - Now only allowing plastic steps in manholes.
  - Now only allowing one model of Neenah manhole frame and covers based on type (standard, watertight, and low profile).
  - Requiring poured manhole grade adjustments. Unless waived by owner, concrete grade rings are not permitted. Rubber grade rings are not permitted. Manholes must now be set at final grade with smooth transitions until final grade is set.
  - Requiring the Developer to provide GPS coordinates of the center of each manhole on the red line drawings.

8. Section 02700:

- Removed the requirement for concrete encasement around PVC pipe at stream crossings and require DIP epoxy lined pipe instead.
- Requiring the Developer to provide GPS coordinates of each straight tee and observation tee on the red line drawings.

9. Section 02721:

- Grease interceptors are required for all food service establishments and any other grease generating facilities and shop drawings must be submitted and approved.
- Added oil interceptor requirements into the Specifications. Oil interceptors are required at repair garages, car-washing facilities and similar facilities in which servicing, repairing or washing is being performed.
- Sampling manholes for grease and oil interceptors are now required.

10. Section 02720:

- **Only PVC SDR 35 pipe may be used. Schedule 40 pipe is not permitted.** This is a carryover from the 2011 Specifications.
- Observation tees should be located between the curb and the sidewalk. A 6"x 6" x 6" double sweeping tee is to be used at the base of the observation tee connecting the service lateral with the building sewer. The contractor should extend the building sewer underneath the proposed sidewalk. **The observation tee riser casting must be placed during the installation of the sewer main and laterals.**
- Only SDR 26 long neck fittings to tie the new SDR 35 building sewers into the existing schedule 40 pipe from the house are allowed.
- The double sweeping tees must be SDR 26 as manufactured by GPK. No others are permitted.
- Testing requirements have been revised.

11. Section 02900: The seeding specification has been added to match the seeding specification the Authority uses on sanitary sewer replacement projects. This is to be used when sanitary sewer work is done within land not owned by the developer.

12. Section 11304:

- The permitted grinder pumps are now Hydromatic and Liberty Pumps. The EONE grinder pumps are no longer considered an acceptable manufacture.
- The Specifications were also revised to include both centrifugal and positive displacement pumps.

13. Details:

- Revised many details to match changes/new requirements that have been made or added to the sanitary sewer details under the various sanitary sewer replacement projects that have been designed since 2011. Changed bentonite mixes for trench plugs.

- Changed backfill requirements in existing and future roads. Details TR-1A, TR-1B, TR-1C and TR-2.
- Added a paving detail for when existing roads are affected.
- Updated the construction notes for manholes.
- Added a new detail for deep manholes to allow a transition from 4 feet in diameter to 5 feet in diameter.
- Added a concrete safety platform detail.
- Added detail for poured concrete manhole adjustments.
- Added manhole abandonment details.
- Added low pressure and force main details for curb stops, cleanout/flushing chambers and a force main locator assembly.
- Added detail for oil separator.