

Utility and Roadway Inspection Scheduling Requirements for Contractors

Note: All construction to comply with *Town of Apex Standard Specifications and Construction Details*, *NCDOT Standard Specifications for Roads and Structures*, and *NCDOT Roadway Standard Drawings*, but in no way should the aforementioned list exclude *ASTM Standards*, *ASCE Standards*, *AASHTO Standards*, *ACI Standards* or other standards as deemed fit by the Town Engineer.

Prior to the commencement of construction a pre-construction meeting is required. This meeting is to inform contractors of the Engineering, Inspection, and Planning requirements for construction.

This list is to provide clarity for contractors working within the Town's jurisdiction. This list shall not be construed as to over-ride the aforementioned standards and is subject to periodic revision.

Inspections Requiring Scheduling:

Sewer:

1. Sewer pressure test of all lines. Inspectors will schedule 30-minute blocks of time with the contractor to perform the inspection. It is the contractor's responsibility to have the lines pressurized upon the arrival of the inspector.
2. Penetrations into a manhole require inspection prior to backfill.
3. Mandrel testing of PVC sewer lines. The contractor is to have all strings in place prior to the arrival of the inspector.
4. All sewer services and taps will be inspected prior to backfill.
5. Taps into existing mains. Patching and backfill of open-street cut.
6. All road-boring activities require a two-day advance notice to the inspector prior to boring and jacking steel casing. NCDOT encroachment agreements are required onsite all times during boring and jacking activities.
7. Stream crossings require inspection prior to placing concrete.
8. Sewer lines will be plugged during construction of the project to prevent debris from entering the Town's system. Prior to removing the plugs and starting the warranty period, the Town will inspect all lines with a T.V. camera.

Water:

1. All water lines will be pressure tested. All valves will be pressure tested to one side of the valve. The inspector will determine the location of the pressurization point and the order in which valves will be isolated.
2. All water lines will receive a total coliform analysis provided by the contractor and witnessed by the inspector. The inspector will identify the locations for which water samples are to be taken.
3. All water services will be inspected prior to backfill.
4. Waterline blocking and 'rodding' shall be inspected prior to backfill.
5. All road-boring activities require a two-day advance notice to the inspector prior to boring and jacking steel casing. NCDOT encroachment agreements are required onsite all times during boring and jacking activities.
6. Taps into existing mains. Tapping sleeves to be inspected prior to making the tap. Air pressure testing and bolt torque inspection of the tapping sleeve is required prior to making the tap. Patching of the open-street cut requires inspection prior to placing backfill and asphalt.

Storm Drainage:

1. Masonry boxes will be inspected prior to backfill.
2. Precast boxes will be inspected prior to backfill.
3. Headwall forms and re-bar are to be inspected prior to placing concrete.
4. All cast slabs with re-bar reinforcement are to be inspected prior to placing concrete.

Roadways:

1. Proof-roll of subgrade prior to placement of ABC. Gradation reports will be provided for ABC as indicated by the inspector.
2. Proof-roll of subgrade prior to placement of curbing.
3. Proof-roll of ABC prior to paving.
4. Road-widening lap-joints prior to final lift.
5. Compaction reports will be provided, as directed by the inspector, for fill material placed in the Right of Way.

Final Inspection:

1. Final Inspections will be scheduled two-days in advance.