



## Newton County Water and Sewerage Authority

### Residential, Commercial, Institutional and Industrial Construction Plans Checklist

Checklist marks to be interpreted as follows:

✓ : OK    X: Revision Required    N/A: Not Applicable    ? : Additional Information Required

#### I. WATER LAYOUT

- \_\_\_\_\_ 1. Site plan with water layout only (topographic overlay required).
- \_\_\_\_\_ 2. Pipe Locations and sizes (8" minimum for water mains).
- \_\_\_\_\_ 3. Materials to be used. Ductile iron pipe required under all intersections, stream crossings, road crossings, over and under all cross drains and at all other locations specified by the Authority.
- \_\_\_\_\_ 4. Location and size of gate valve at intersections, along water mains, at fire hydrants and at connection to existing mains.
- \_\_\_\_\_ 5. Thrust blocks at all bends and tees.
- \_\_\_\_\_ 6. Location of all existing and proposed fire hydrants.
- \_\_\_\_\_ 7. Existing water main locations, sizes and types of material surrounding the project.
- \_\_\_\_\_ 8. Detail of connection to existing water main.
- \_\_\_\_\_ 9. Nearest existing line valves on both sides of connection to existing water main.
- \_\_\_\_\_ 10. Proposed meter sizes and locations.
- \_\_\_\_\_ 11. Water main on north and east side of road.
- \_\_\_\_\_ 12. If proposed water line crosses private property, a 20-foot permanent easement must be provided.
- \_\_\_\_\_ 13. Details:
  - \_\_\_\_\_ A. Fire hydrant at the end of line in cul-de-sacs
  - \_\_\_\_\_ B. Air and Vacuum release valve assembly
  - \_\_\_\_\_ C. House service installation
  - \_\_\_\_\_ D. Line valve
  - \_\_\_\_\_ E. Typical fire hydrant installation
- \_\_\_\_\_ 14. Location of air release valves.
- \_\_\_\_\_ 15. A gate valve and a minimum of 36 feet of pipe shall be provided at the end of all lines for phased developments. The end of the line shall be provided with temporary plug and concrete thrust collar.
- \_\_\_\_\_ 16. Detail dead end line with one full joint of D.I. Pipe, Fire Hydrants, M.J. Plug, Retainer Glands and concrete thrust blocking.

\_\_\_\_\_ 17. Flow test required for each phase. Place order with Newton County Water and Sewerage Authority. Current cost \_\_\_\_\_.

II. SEWER LAYOUT

\_\_\_\_\_ 1. EPD Sanitary Sewer Extension Submittal Form filled out for proposed project.

\_\_\_\_\_ 2. Sewage acceptance letter issued by NCWSA.

\_\_\_\_\_ 3. Landfill letter issued by Newton County.  
\_\_\_\_\_ A. Land Disturbing Activity Permit  
\_\_\_\_\_ B. SWCD Report of Technical Review

\_\_\_\_\_ 4. Site plan showing sewer layout (topography overlay required).

\_\_\_\_\_ 5. Sewer layout should have manhole numbers, line designations, flow arrows, street names and topography.

\_\_\_\_\_ 6. Sewer layout showing proposed storm drain crossings.

\_\_\_\_\_ 7. Detail tie-in of proposed lines with existing lines providing existing and proposed pipe sizes and invert elevations.

\_\_\_\_\_ 8. Profile of proposed sewer lines with proposed grades.

\_\_\_\_\_ 9. Manhole numbers and locations on plan and profile.

\_\_\_\_\_ 10. Outside drop-manhole designated on profile where invert “in” elevation is more than 2.0 feet above the invert “out” elevation.

\_\_\_\_\_ 11. Percent grade and length on profile.

\_\_\_\_\_ 12. Size of mains on profile.

\_\_\_\_\_ 13. Lateral locations on plan. As-builts should have distances in feet from manhole to lateral as well as station numbers.

\_\_\_\_\_ 14. Materials to be used. Ductile Iron Pipe where required such as fills, shallow cover, less than 2’ of clearance, over 14’ of fill, etc.

\_\_\_\_\_ 15. Location in profile of streams and storm drains.

\_\_\_\_\_ 16. Permanent easements are to be 20’ wide for sanitary sewer and 30’ wide for easements containing both sanitary sewer and storm drains.

\_\_\_\_\_ 17. Easements for future sewer.

\_\_\_\_\_ 18. Details:  
\_\_\_\_\_ A. Precast concrete manhole  
\_\_\_\_\_ B. 6” service connection  
\_\_\_\_\_ C. Sewer service location  
\_\_\_\_\_ D. Manhole frame and cover  
\_\_\_\_\_ E. Class A, B, C and Special PVC bedding

\_\_\_\_\_ F. Pipe adapter – Joining different types of pipe

\_\_\_\_\_ G. Cleanout

- \_\_\_\_\_ 19. No acute angles between “in” lines and “out” line in manhole.
- \_\_\_\_\_ 20. Proper manhole spacing.
- \_\_\_\_\_ 21. Sewers within minimum and maximum slope requirements for expected flow, pipe material and pipe size.
- \_\_\_\_\_ 22. In manholes where the pipe size increases, the crown of the smaller pipe must be at the same elevation or higher than the crown elevation of the larger pipe.
- \_\_\_\_\_ 23. Minimum cover of 7’ in roadway where laterals are located to obtain 6’ of cover over lateral at R/W limit, or D.I.P. laterals designated.

### III. ADDITIONAL REQUIREMENTS

- \_\_\_\_\_ 1. Horizontal separation of at least 10 feet between water main and existing or proposed sewer (measured edge to edge).
- \_\_\_\_\_ 2. Where water main crosses existing or proposed sewer, 18” vertical separation is required between the two mains (measured edge to edge) and include a note that a full joint of water main is required to be centered at sewer main crossing so that both joints are as far away from the sewer as possible.
- \_\_\_\_\_ 3. Newton County utility location detail.
- \_\_\_\_\_ 4. Newton County Water and Sewerage Authority Water System Construction General Notes.
- \_\_\_\_\_ 5. Utilities Protection Center Detail.
- \_\_\_\_\_ 6. Water and sewer plans bear the stamp of a registered professional as required by OCG 43-15.
- \_\_\_\_\_ 7. All plans shall be submitted with plan sheets sized 22” x 34” or 24” x 36”.
- \_\_\_\_\_ 8. Existing water mains along existing roads shall be shown to be replaced with D.I.P. (if they are not already D.I.P.) beneath the proposed subdivision entrance and acceleration/deceleration lanes.

- NOTES:
- 1. Flow test valid for 6 months and only applies to a single phase/unit of this project.
  - 2. Plan approval valid for 12 months without beginning construction. Plans subject to further review and approval if 12 months expire.
  - 3. The Authority will not be responsible for any house built too low to be served nor for any service covered by construction.
  - 4. As-builts are required to be submitted upon completion of construction.

5. NCWSA New Subdivision & Line Extension Data Sheet shall be completed and submitted to the Authority upon project completion. (Forms attached.)
6. Existing county roads shall not be open cut unless permission is granted by the Georgia D.O.T. or the Newton County Road Department. Submittal of authorization letter from the Georgia D.O.T. or Newton County Road Department is required.
7. If work is performed on a Georgia D.O.T. or Newton County R/W, a letter from the governing agency is required to be submitted after construction is complete stating that grassing, clean-up, drainage, etc. is acceptable.