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### CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY SANITARY SEWER SYSTEM CONSTRUCTION GENERAL NOTES

1. All sanitary sewer system construction must follow the current Cherokee County Water and Sewerage Authority Sanitary Sewer System Standards.
2. For D.I.P. sewer lines, the minimum wall thickness shall be Class 50 and the interior lining shall be Protecto 401 ceramic epoxy. Wall thicknesses greater than the minimum called for above may be required due to greater depths or varying bedding requirements. Class C bedding is the minimum allowed.
3. All Polyvinyl Chloride (PVC) sewers 6" to 15" in diameter shall meet the requirements for minimum wall thickness as specified under SDR 35 in ASTM D3034, latest revision. PVC sewers that are 18" and larger in diameter shall have a minimum wall thickness as specified under T-1 in ASTM F679, latest revision. PVC sewers with more than 12' of cover may require wall thicknesses greater than SDR 35 or T-1. PVC is not allowed for sewers greater than 24" in diameter or more than 16' of cover.
4. Ductile Iron Pipe is required for sanitary sewer lines:
  - a. Crossing storm sewers or other utilities with less than 2' of clearance
  - b. Crossing water mains
  - c. Crossing all streams and vegetative buffers
  - d. For all cross country locations with less than 3' of cover
  - e. For all locations in roadways with less than 5' of cover
  - f. For all locations with 16' or more of cover
  - g. With 20% or greater slope
  - h. Inside all casings
  - i. Installed in subdivision easements between lots
  - j. Adjacent to all drop manholes (1 joint minimum at connection to drop manhole)
  - k. For all installations in fill material
  - l. At all other locations designated by the CCWSA
5. Information regarding underground utilities on these plans is not guaranteed as to accuracy or completeness. Prior to beginning work, the Contractor shall request a field location through the utilities protection center and any utility owners thought to have facilities in the area. The Contractor shall promptly compare these field-marked locations with the project plans and then notify the designer of any anticipated problems or need for design changes. It is the Contractor's responsibility to excavate or cause the utility owner to excavate for the purpose of determining exact elevations or locations at utility crossings and other critical locations well in advance of the work under this contract. Damage to existing utilities resulting from the Contractor's negligence shall be repaired at the Contractor's expense. The Developer and/or the Developer's Contractor is responsible for verifying the exact location, size, and material of any existing water or sanitary sewer facility proposed for connection or use by this project.
6. All sewer service laterals shall have a minimum diameter of 6" and a minimum grade of 1%.
7. The Developer shall obtain a land disturbance permit from Cherokee County governing all items related to erosion control.

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8. This project is located in Land Lots \_\_\_\_\_, in the \_\_\_\_\_ District of Cherokee County, Georgia.
9. Clearing will be kept to an absolute minimum. Vegetation and mulch will be applied to applicable areas immediately after grading is complete. Land disturbing will be scheduled to limit exposure of bare soils to erosive elements.
10. Construction activities will be performed in compliance with all applicable laws and regulations.
11. All marketable timber will be salvaged. Top soil will be salvaged, stock piled and spread on areas to be vegetated. Trees outside of the clearing line will be protected from damage by appropriate markings.
12. Contractor is responsible for staking the alignment of the proposed pipeline prior to pipe installation. If a conflict should arise, the contractor shall notify the designer at that time.
13. All excavated dirt shall be placed on the high side of the trench away from any creeks.
14. Any fill dirt over the pipe shall be graded to prevent ponding.
15. The right-of-way or construction easement represents the limits of clearing for the complete job. The contractor shall not clear beyond this limit.
16. A copy of the approved construction plans must be kept on the job site at all times that construction is underway.
17. No bury pits are allowed.
18. Topographic ground elevations along all sewer lines, gravity and force mains, are from field-run surveys, not aerial photographs.
19. All easements must be acquired prior to the preconstruction meeting with the Chief Inspector.
20. The Developer/Contractor shall meet with the Chief Inspector at least 24 hours before beginning construction. The Contractor shall notify the Chief Inspector or his designated representative by 8:30 a.m. of each workday when work is scheduled unless authorized otherwise.
21. Sanitary sewer force mains shall be installed so that the top of the pipe is a minimum of four feet below final grade, four feet below the edge of the pavement, or four feet below the ditch paralleling the road, whichever is deepest.
22. Type 4 bedding is required at all restrained pipe installations.
23. Contractor must show proof of insurance in the amount specified by the CCWSA.
24. A horizontal separation of at least 10 feet is required between existing or proposed water mains and existing or proposed sanitary sewer lines.
25. A vertical separation of at least 18 inches is required where a sewer line crosses an existing or proposed water main. A full joint of sanitary sewer pipe is required to be centered at the water main crossing.

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26. No portion of this project is being constructed on or near an existing landfill, abandoned landfill, or any other site used for waste disposal.
27. Potable water and sanitary sewer structures are not allowed within a dam. Utility pipelines and structures must be a minimum of 30 feet outside the toe of slope of the dam.
28. Existing County roads shall not be open cut unless permission is granted by the Cherokee County Department of Public Transportation.
29. Plan approval is valid for 12 months without beginning construction. Plans shall be subject to beginning the process of review and approval if 12 months expire prior to the start of construction.
30. Record drawings of water and sanitary sewer facilities are required to be submitted to the CCWSA upon completion of the project.
31. If construction plans are stamped for a full project, and then the Developer revises the plans to build the development in phases, no construction or field inspection will be allowed to begin until the revised, phased plans are re-approved and stamped for the phased construction.
32. All streams and protective buffers shall be crossed in accordance with current County and State regulations.
33. Inside of steel casings, pipe joints shall be restrained using Fast-Grip gaskets or approved equal.
34. Safety platforms are required for all manholes that are 16' in depth or more.
35. Concrete footings are required for all manholes that are 16' in depth or more and for all manholes installed in fill material.
36. Sanitary sewers in roadways shall be installed with a minimum of 7' of cover where laterals are located in order to obtain a minimum cover of 5' over the lateral at the R/W limit, or DIP laterals are required.
37. The CCWSA shall not be responsible for any building built too low to be served by the sanitary sewer system.
38. The CCWSA shall not be responsible for any sanitary sewer services covered or buried by construction.
39. Soil adjacent to all manholes located in roadways will be tested for 95% compaction. The CCWSA must receive a copy of the results of the testing before the final plat will be signed.
40. When transitioning from DIP to PVC, the Contractor must utilize solid sleeves or "Harco" fittings.
41. All angles between "in" lines and "out" lines for manholes shall be labeled. Acute angles (angles < 90 degrees) are not allowed for sewer mains or sewer services.
42. Sewer lines that have slopes greater than 20% shall be DIP and shall be provided with concrete anchors (Detail S716).
43. Manholes located in future streets must be installed to be 48" or higher above grade.

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44. Manholes that are located outside of roadways shall be installed to be at least 18" above grade and shall be provided with self-sealing, bolt-down covers.
45. For any new project connecting to an existing manhole, the Contractor shall core and boot the existing manhole at an elevation that is 2 feet or less from the existing invert out.
46. Inside drop manholes shall be 5 feet in diameter and shall be built in accordance with Detail S703.
47. All force mains paralleling water mains shall be encased in green polyethylene tubing so as to identify the force main as sanitary sewer.
48. Inside of developments with curb and gutter, the Contractor shall cut a "S" into the top of the curb above all sanitary sewer service laterals.
49. Locator wire must be installed above all sewer lateral lines.
50. Sanitary sewer cleanouts shall be installed for all service laterals at the edge of the sewer easement or R/W. CCWSA maintenance of laterals ends at the sewer cleanout.
51. Horizontal locations will be referenced to Georgia State Plane Coordinates System (NAD 83 West Zone Feet).
52. Vertical locations will be referenced to North American Vertical Datum (NAVD 88).
53. Orthometric locations will be referenced to GEOID 99/03.
54. No landscaping or structures will be allowed in CCWSA easements.