GASTONIA NC
Great Place. Great People. Great Promise.

Engineering Department
Water/Sewer/Storm AS-Builts Review Check List

Project: _____
Owner: _____
Engineer: _____
Reviewed By: _____ Date: _____

Yes	No	N/A	**GENERAL**
			1. Name of Project (w/ Phase #, Section #, or Map #)
			2. Name and address of Developer, with contact person and phone number.
			3. Name and address of Engineer
			4. Date of Drawing/Revisions.
			5. Vicinity Sketch (include adjacent streets and north arrow)
			6. Legend
			7. North Arrow
			8. Signature and seal of N.C. Professional Engineer on every sheet
			9. Label "AsBuilts" ***with date*** on every sheet
			10. Street layout (w/names and R/W widths)
			11. Pavement width on plan view (boc to boc)
			12. Lot numbers and block numbers
			13. Show existing grade in all profiles.
			14. Typical roadway section (on at least 1 profile)
			15. Match lines (w/stations on each sheet)
			16. Bench mark location and datum to be described with true elevations (clearly label on overall cover sheet).
			17. All dimensions must be legible
			18. Cover sheet certification for fill sections of public improvements.

WATER LINE INFORMATION

			19. Size and type of water line
			20. Length of main between fittings on plan view.
			21. List all fittings or appurtenances (size and type) on plan view with station number.
			22. Depth of water line (shown on profile)-36" if <10" diameter, 42" otherwise.
			23. Water meters referenced from adjacent property corner
			24. Show tees and bends along main by stations
			25. All water valves are to be referenced from **at least TWO (2)** definite reference points such as buildings, fire hydrants, storm drainage structures, power poles, manholes, etc.

**** Distances shall be from reference point directly to valve****

			26. Evaluate each lot for a water meter.
			27. Gate valves at all intersections.

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Yes	No	N/A	SEWER LINE INFORMATION
			28. Size and type of sewer line in both plan and profile views
			29. Evaluate each lot for sewer tap.
			30. Grade of sewer line in profile view
			31. Manholes shown by manhole and station numbers in plan/profile views.
			32. Length of main between manholes in plan and profile views.
			33. Invert elevations given in both plan and profile views
			34. Two tenths (0.20') drop across MH
			35. Manhole rim elevations given in both plan and profile views
			35. Minimum ground cover of 30" if Ductile Iron and in roadway
			36. Minimum ground cover of 36" for all types of sewer line other than ductile iron
			37. If piers are required, city standard detail cited
			38. Location of piers by stations
			39. Sewer cleanouts referenced from adjacent property corner
			40. Manhole depths > 14' require 5' diameter manhole sections (label in plan and profile).
			41. Minimum 30' GDUE required for sewer outside street r/w.
			42. "Shade" DIP in profile view.

FORCE MAIN INFORMATION

			43. Force main location
			44. Force main size
			45. Force main length
			46. Force main type
			47. Force main depth

Yes	No	N/A	SEALED MANHOLE INFORMATION
			48. Show vents on sealed manholes in profile view
			49. Label vent elevation (2' above 100-yr. Flood elevation).

PUMP STATION INFORMATION

			50. Influent Invert, and bottom of wet well elevation
			51. Inpeller Size, RPM. and hp

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Yes	No	N/A	STORM DRAINAGE INFORMATION
			52. Size and type of storm line in both plan and profile views
			53. Slope of storm line in profile view
			54. Structures shown by name and station numbers in plan/profile views.
			55. Length of storm between structures in plan and profile views.
			56. Invert elevations given in both plan and profile views
			57. Two tenths (0.20') drop across storm structure
			58. Catch basin and Junction Box rim elevations given in both plan and profile views
			59. Minimum 20' GDUE required for storm outside street r/w.

The following certification shall be on the overall cover sheet:
Storm Drain Certification: Storm drain system was installed in substantial compliance with the approved construction plans in regards to the horizontal and vertical locations.
Public storm drain portions were installed per City Standards and Specifications.

Any deviations from original plans shall be shown on the construction mark-ups.