

Summary of Revisions to the Minimum Standards		
Effective January 31, 2023		
Section Reference	Revision Type	Revision Description
Section 1 (Pages 1-1 and 1-2)	Minor	Revised language regarding CWS's ISO 14001 certification and environmental policy. Revised general introduction language.
Section 2 (Pages 2-1 thru 2-4)	Minor	Revised language to include projects having main extensions, improvements to existing water and wastewater systems, and water and sewer service only requests
Section 3, Paragraph A.4 and A.5 (Page 3-1)	Minor	Revised language to emphasize requirements are for both main extensions and service installations
Section 3, Paragraph A.7 (Page 3-2)	Minor	Revised section involving grease traps for more detail and clarification regarding submittals and approvals
Section 3, Paragraph B.3 (Page 3-3)	Minor	Added "and directives for water and wastewater connection points" to the language to clarify that CWS will identify which mains can or cannot be utilized
Section 3, Paragraph C.1.e (Page 3-4)	Major	Existing conditions survey added to list of required items for Preliminary Fee Determination. This initial survey should show all surrounding utilities relevant to the site development.
Section 3, Paragraph C.1.i (Page 3-4)	Minor	Added statement that additional information may be requested to complete a fee determination
Section 3, Paragraph D (Page 3-4)	Minor	Removed "See Construction Details" language wherever it was stated. Also made as a global change throughout the Minimum Standards (Sections 1 thru 5).
Section 3, Paragraph D.1.a (Page 3-4)	Minor	Added "and/or pump station" for clarity on main extension project description
Section 3, Paragraph D.2.a.2 (Page 3-5)	Major	Plan minimum horizontal scale changed to 1" = 40 feet (was 1" = 50 feet)
Section 3, Paragraph D.2.a.2.a (Page 3-6)	Major	Added "Requests for investigation to identify and mark existing services by Charleston Water System may be coordinated based upon Charleston Water System's availability"
Section 3, Paragraph D.2.a.2.c (Page 3-6)	Major	Added "All fittings and appurtenances shall be clearly labeled with description and stationing. Use of Key notes should be limited."
Section 3, Paragraph D.2.a.2.d (Page 3-6)	Major	All vertical and horizontal bends shall be shown and labeled on both the plan and profile view.
Section 3, Paragraph D.2.a.2.f (Page 3-6)	Major	Revised language to read "Profile for all water mains" are required. Currently, only profiles for water mains 10" and larger are required.

Section 3, Paragraph D.2.a.2.g (Page 3-6)	Major	Profiles for all proposed water service lines and sewer service laterals on Peninsula Charleston, regardless of size, are required.
Section 3, Paragraph D.2.a.2.h (Page 3-6)	Minor	Profiles shall show and label (size, type, material, depth) for all utility crossings
Section 3, Paragraph D.2.a.2.j (Page 3-6)	Minor	Added "along with addressing plan"
Section 3, Paragraph D.2.a.2.l (Page 3-7)	Minor	Added "and width" to language about road right-of-way information
Section 3, Paragraph D.2.a.2.m (Page 3-7)	Minor	Revised language to read "Location, type, ownership, and width of all existing and proposed easements to include Charleston Water System utility easements"
Section 3, Paragraph D.3 (Page 3-7)	Minor	Removed language for "typed or printed" calculations; not necessary
Section 3, Paragraph D.3.a (Page 3-7)	Major	Added language "For commercial developments requesting water for temporary fire protection, provide additional fire flow calculations based on the size of the proposed backflow prevention assembly and fire service meter." This requirement has always been part of the Minimum Standards and will be enforced from this point forward.
Section 3, Paragraph E.1 (Page 3-8)	Minor	Revised language to refer to the "official comment log"
Section 3, Paragraph E.2.a (Page 3-8)	Minor	Reduced requirement from seven (7) to six (6) hard copy plan sets for main extension projects. Added requirement for four (4) hard copy plan set for service only projects. Reduced number due to electronic SCDHEC submittals for main extensions.
Section 3, Paragraph E.2.b (Page 3-8)	Minor	Revised language to clarify fee payment requirements for main extension projects vs. service only projects
Section 3, Paragraph E.2.d (Page 3-9)	Minor	Added reference to City of Charleston Street Blocking Permits becoming the responsibility of the contractor or developer's engineer to obtain
Section 3, Paragraph E.3 (Page 3-9)	Minor	Added reference to denote main extension projects requiring an executed CWS Development Agreement
Section 3. Paragraph F.3 (Page 3-9)	Minor	Revised language to clarify that main extension project plans are stamped "Approved for Installation" for main extension projects; service only project plans are stamped "Approved for Construction"
Section 3, Paragraph F.4 (Page 3-9)	Minor	Requirement for Preconstruction Meetings to include any subcontractor working on the water

		and/or wastewater system(s) for the CWS Approved Contractor
Section 3, Paragraph F.4.a (Page 3-10)	Major	Requirement for Preconstruction Meeting to be held no more than 60 calendar days prior to the start of actual construction
Section 3, Paragraph F.4.b (Page 3-10)	Major	Requirement that if construction does not begin within 60 calendar days of the Preconstruction Meeting, another Preconstruction Meeting will need to be held
Section 3, Paragraph F.4.c (Page 3-10)	Major	Requirement that if the selected CWS Approved Contractor chooses to use a subcontractor to perform work on the project, the Approved Contractor shall provide evidence of how they will manage and provide project oversight
Section 3, Paragraph F.6 (Page 3-10)	New	Added requirement for the Developer's Engineer to provide its project inspection reports to the assigned CWS Inspector upon request
Section 3, Paragraph F.7 (Page 3-10)	New	Added requirement that if installation per the CWS stamped approved plans cannot be achieved due to conflicts with other utilities (or sub-grade obstructions), the Approved Contractor shall immediately notify the Developer's Engineer and the Charleston Water System Construction Inspector. No deviation from the CWS stamped approved plans will be allowed without prior written approval from CWS.
Section 3, Paragraph G.2 (Page 3-12)	Major	Service Only Project requirements added as items 2.a through 2.d
Section 3, Paragraph G.3.c (Page 3-13)	New	Added requirement that one (1) draft digital or hard copy of Easement Plat for review be included in the Final Inspection package
Section 3, Paragraph G.3.f (Page 3-13)	Minor	USB drives required for submittal of CCTV video. Engineer shall review the CCTV video and inspection report for any deficiencies prior to submitting to CWS.
Section 3, Paragraph G.3.i (Page 3-14)	New	Added requirement to include spark test results for epoxy coated manholes and wet wells
Section 3, Paragraph H.1.c (Page 3-15)	Major	Revised Record Drawing requirements to include profile for all water mains
Section 3, Paragraph H.1.d (Page 3-15)	Minor	Requirement for Record Drawings to include profile for all sewer laterals on Peninsula Charleston regardless of size
Section 3, Paragraph H.1.h (Page 3-15)	New	Revised to include reference to NAD 83 (2011), and inclusion of any unit number identifiers for commercial projects in the coordinate table. Added horizontal and vertical datum shall be referenced on all Record Drawing sheets.

Section 3, Paragraph H.3 (Page 3-17)	Minor	Changed location of Asset Inventory Worksheet (AIW) requirements in Section. The AIW shall be submitted digitally in Excel format and shall include all assets removed, abandoned, or installed as reflected by the as-constructed condition and the corresponding Record Drawings. Items documented in the AIW will be checked against the Record Drawings for accuracy by CWS. Any inaccuracies identified will require correction prior to worksheet acceptance. The applicable sheets shall be submitted based on installed assets. All costs input in the inventory shall reflect, in general, all expenses associated with bringing the asset into service.
Section 3, Paragraph I.1 (Page 3-17)	Minor	Added language to differentiate process for closeout of Main Extension and Service Only projects. For service only projects, the Project Closeout package may not include all of the typical Project Closeout Package Items. The items required will be communicated to the Developer and the Developer's Engineer by the assigned CWS Construction Inspector during the Preconstruction Meeting.
Section 3, Paragraph I.2 (Page 3-19)	New	Added requirement that in the event that the development is transferred to new ownership during the maintenance period, the bond and Maintenance Agreement must be updated to the new ownership.
Section 3, Checklists	Minor	Revisions made to all checklists to reflect updated Minimum Standards requirements. Added a new Water Service Only checklist and a new Wastewater Service Only checklist. Updated checklist titles.
Section 3, Legal Documents	Minor	Revised Bill of Sale (Water) description of property being sold to CWS
Section 3, Financial Documents	Minor	Changed references to Charleston Water System to Commissioners in the Irrevocable Standby Letter of Credit example
Section 3, Easement Agreement	Major	Added restriction of fill placement greater than 6 inches or the cutting of fill within CWS's utility easement to the agreement. Added definition and clarification of CWS's obligations to repair asphalt/concrete pavement within CWS's utility easement. Other minor revisions made.
Section 4, Paragraph A.5 (Page 4-1)	New	Added language regarding the definition and clarification of CWS's obligations to repair

		asphalt/concrete pavement within CWS's utility easement
Section 4, Paragraph A.6 (Page 4-1)	New	Added language regarding CWS's right to extend easements to adjacent properties during plan review for the purpose of future main extensions and system connectivity. When applicable, CWS utility easements shall be extended to the nearest property line that is shared with the adjoining property owner in a manner that does not conflict with current or future use of the property.
Section 4, Paragraph A.7 (Page 4-1)	New	Added language regarding CWS's right to increase the width of any easement during plan review when conditions are determined by CWS to require said increase
Section 5, Paragraph C.3 (Page 5-3)	New	Added the requirement that the Engineering Services Fee will be charged on service only projects that are inclusive of a new manhole, hydrant, or main modification to cover the cost of inspection.
Section 5, Paragraph D (Page 5-3)	New	Added the requirement that in some instances, service only projects will be required to provide a Maintenance Agreement Bond