

Charleston Water System
Record Drawing Checklist – Wastewater Gravity Sewer with Pump Station and Force Main

| | |
|----------------------|-------|
| PROJECT NAME: | |
| ENGINEERING FIRM: | |
| ENGINEERING CONTACT: | DATE: |

| <u>Required Items (refer to Minimum Standards)</u> | <u>Engineer</u> Complete | <u>CWS</u> Complete | Incomplete |
|---|-----------------------------|------------------------|------------|
| CWS Project Name (on all sheets) | | | |
| CWS Project # (on all sheets) | | | |
| CWS Extension # (on all sheets) | | | |
| DHEC Permit # (on all sheets) | | | |
| Required Drawing Size – 24" x 36" | | | |
| Tax Map Numbers | | | |
| Lot and Unit Numbers (include all known addresses) | | | |
| Street Names (include ROW widths and ownership) | | | |
| Site Map – minimum size 3"x 3" | | | |
| Text Height – 0.08-inch or larger | | | |
| New mains must be shown as a dark, thick line and clearly labeled with length, diameter, material (example: 150 LF, 8" PVC) | | | |
| Abandoned or removed mains must be shown as a grey line and clearly labeled with length, diameter, material (example: 150 LF, 8" PVC) | | | |
| Steel casings labeled with length and diameter | | | |
| Graphic and Relative Scales - maximum 1"=40' | | | |
| North Arrow | | | |
| Legend | | | |
| Utility Contractor's Name, Address, Phone Number, Email Address | | | |
| Engineering Firm Name, Address, Phone Number, Email Address | | | |
| Construction Completion Date (month, year) | | | |
| Horizontal NAD 83 (2011) and Vertical Datum NGVD 29 (show on all sheets) | | | |
| Professional Land Surveyor (PLS) Signature and Stamp | | | |
| Registered Professional Engineer (PE) Signature and Stamp | | | |
| Sewer Easements – Label as "xx-FT CWS Utility Easement" | | | |
| Installed and Abandoned or Removed Material Listing - CWS Asset Inventory Worksheet and Record Drawing must reflect same information: | | | |
| Pipe – length, diameter, material, restrained lengths | | | |
| Manholes – diameter, quantity | | | |
| Services – diameter, quantity | | | |
| Cleanouts – quantity | | | |
| Valves – diameter, type, quantity | | | |

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Required Items (refer to Minimum Standards)

Engineer CWS
 Complete Complete Incomplete

| | | | |
|---|--|--|--|
| Coordinate Table for all installed sewer appurtenances in a tabular format, State Plane Coordinates NAD 83 (2011) to include: | | | |
| Point Number | | | |
| Northing | | | |
| Easting | | | |
| Elevation (Vertical Datum NGVD 29) | | | |
| Station Number | | | |
| Description | | | |
| Sewer service cleanout addresses, unit numbers, and use | | | |

Gravity Main (additional required items)

Engineer CWS
 Complete Complete Incomplete

| | | | |
|--|--|--|--|
| Indicate how the new gravity main ties into the existing main (show as dashed and label size), show point of tie-in in State Plane Coordinates | | | |
| Manhole Invert and Top Elevations - show on both Plan and Profile | | | |
| Manhole Station Numbers – show on both Plan and Profile | | | |
| Manholes Numbered – show on both Plan and Profile | | | |
| Gravity Sewer Mains - show on both Plan and Profile: | | | |
| Length (manhole to manhole), diameter, material | | | |
| Percent of grade (slope) – manhole to manhole | | | |
| DIP/C900 Sewer Sections – manhole to manhole length or other sections | | | |
| Wye Station Numbers – show on both Plan and Profile | | | |
| Service Laterals – indicate distance from main to first cleanout within the easement or right-of-way | | | |
| End of Main – label and show in State Plane Coordinates | | | |

Force Main (additional required items)

Engineer CWS
 Complete Complete Incomplete

| | | | |
|---|--|--|--|
| Indicate how the new force main ties into the existing force main or manhole (show as dashed and label size), show point of tie-in in State Plane Coordinates | | | |
| Sewer Force Mains (show on both Plan and Profile): | | | |
| Length (pump station to discharge point), diameter, material, restrained lengths | | | |

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| Force Main (additional required items) | <u>Engineer</u> Complete | <u>CWS</u> Complete | <u>CWS</u> Incomplete |
|---|-----------------------------|------------------------|--------------------------|
| Percent of Grade (slope) – if applicable | | | |
| Valves | | | |
| Air Release Valve Station Numbers – show on both Plan and Profile | | | |
| Force Main Valves Station Numbers – show on both Plan and Profile (include elevation to top of operating nut) | | | |

| Pump Station (additional required items) | <u>Engineer</u> Complete | <u>CWS</u> Complete | <u>CWS</u> Incomplete |
|--|-----------------------------|------------------------|--------------------------|
| Address and TMS# of Pump Station property (if known) | | | |
| Assigned CWS Pump Station ID | | | |
| Pump Station Plan, Sections and Details | | | |
| Pump Station Electrical Schematics | | | |

Signatures (sign and date)

| | |
|----------------|-------|
| ENGINEER: | DATE: |
| CWS PARS: | DATE: |
| CWS INSPECTOR: | DATE: |