ORDINANCE NO. 10

(As Amended September 9, 2026)

REGULATION OF SYSTEM EXPANSION

AN ORDINANCE OF THE SPRING CREEK/COW CREEK SANITARY DISTRICT OF HUGHES COUNTY AND SULLY COUNTY, SOUTH DAKOTA, ESTABLISHING REGULATIONS RELATING TO THE EXPANSION OF THE EXISTING WATER DISTRIBUTION, WASTEWATER COLLECTION AND TREATMENT SYSTEM AND PROVIDING FEE STRUCTURE AND PENALTIES FOR VIOLATIONS THEREOF.

BE IT ORDAINED AND ENACTED by the Board of Trustees of the Spring Creek/Cow Creek Sanitary District (hereinafter the "Board") of Hughes County and Sully County, State of South Dakota, as follows:

ARTICLE I
GENERAL PROVISIONS

Section 1. Under the Authority of the State of South Dakota, pursuant to SDCL 34A-5-14, the District is organized as a governmental subdivision of the State and a public body, corporate and politic.

Section 2. The District is hereby authorized and directed to administer, implement, and enforce the provisions of this Ordinance and adopts by reference herein, in whole or in part, all other Ordinances of the District which remain in full force and effect, in order to protect the public health, safety, and welfare of residents within the District's boundaries.

Section 3. Spring Creek/Cow Creek Sanitary District water distribution and wastewater collection and treatment systems (hereinafter the "System(s)") shall be operated as a public utility and the rates, fees, charges, rentals, regulations and provisions of this ordinance shall be and remain applicable thereto until duly amended. The District reserves the right to amend this Ordinance, provided that as amended, the Systems' receipts shall be sufficient each year to pay all costs of operation and maintenance, depreciation, principal and interest on indebtedness of the same, and reserves which may be required. The District is authorized to hire a Superintendent to oversee the operations of the District Systems.

ARTICLE II
DEFINITIONS

Section 1. Unless the context specifically indicates otherwise, the meaning of terms used in this Ordinance shall be as follows:

A. "Developer" shall mean the owner of the platted or planned parcels installing the sewer main and/or water main or associated appurtenances.
B. "Easement" shall mean an acquired legal right for the specific use of land owned by others.
C. "Existing System" shall mean all water distribution and wastewater collection and treatment systems in place and under operational control of the District as of January 1, 2021.

D. "Final Completion" shall mean the construction is complete and all requirements have been met for the District to take ownership of the constructed components. Once obtained, the District will issue a letter of final acceptance.
E. "Force Main" shall mean any sewer piping operating under pressure.
F. "May" is permissive.
G. "Person" shall mean any individual, firm, company, association, society, corporation, or group.
H. "Sanitary Sewer" shall mean a sewer that carries liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions together with minor quantities of ground, storm, and surface waters that are not admitted intentionally.
I. "Service Connection" shall mean the point at which the water main or sewer main is tapped to provide a connection for an individual user.
J. "Service Pipe" shall mean the piping between the individual user's first point of use and the water or sewer main.
K. "Sewer" shall mean a pipe or conduit that carries wastewater or drainage water.
L. "Sewer Main" shall mean the piping to which individual service connections are connected (tapped).
M. "Shall" is mandatory.
N. "Substantial Completion" shall mean the construction is complete and the constructed components can perform for their intended use. Once obtained, the District will issue a letter of substantial completion.
O. "Superintendent" shall mean the superintendent of the water distribution system and/or wastewater collection and treatment systems or an authorized deputy, agent, or representative.
P. "User" shall mean any person with a service connection.
Q. "Wastewater" shall mean the spent water of a community. From the standpoint of source, it may be a combination of the liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions, together with any groundwater, surface water, and storm water that may be present.
R. "Water Main" shall mean the piping to which individual service piping is connected (tapped)

ARTICLE III
DESIGN AND CONSTRUCTION REQUIREMENTS

Section 1. The Board of Trustees may adopt standard specifications utilized by other municipalities, sanitary districts, or similar governing bodies that oversee or operate and maintain sanitary sewer collection and treatment facilities and water supply facilities. The Board may adopt standard specifications by reference where such standards are published or publicly available.

Section 3. Nothing in this Ordinance or in any adopted standard specification shall limit the Board from issuing a variance to the standard specifications. The Board may issue a variance to the adopted standard specifications by majority vote. Variances shall be issued in writing and are binding only upon the specific project or portion thereof for which the variance is issued. By issuing a variance, the variance does not modify the standard specifications, nor any revision issued by the Board.

Section 4. The Design and Construction Standards for Water and Wastewater System, Piping and Appurtenances are attached to this Ordinance as Appendix A, which may be modified from time to time. The Specifications, Standards, Codes and Design Criteria mentioned in Appendix A are hereby adopted by the District and this Ordinance in their entirety unless in conflict with the provisions of this Ordinance.

ARTICLE IV
GENERAL SYSTEM AND APPLICATION REQUIREMENTS

Section 1. Plans and specifications shall be prepared in accordance with South Dakota Codified Laws and the Administrative Rules of South Dakota. Plans and specifications shall be complete for all phases of work to be operated and maintained by the District upon completion, acceptance of the work, and passage of the warranty period. This includes civil, mechanical, electrical, and HVAC plans as applicable to the works seeking approval.

Section 2. Developer fees, as specified herein shall be paid in full within 30 days of approval by the District. If developer fees are not paid in full within 30 days of approval, the approval shall be void. Construction shall not begin until the developer fees are paid in full. Beginning construction prior to payment of developer fees shall void the approval.

Section 3. As applied to sewer services, each platted or planned parcel not serviced by the existing system shall be provided with at least one service pipe. The sewer service pipe shall be installed as required by the standard specifications shown in Appendix A. For the purposes of this section, to be deemed to be serviced by the existing system, the service pipe shall be extended to the platted or planned parcel.

Section 4. As applied to water services, each platted or planned parcel not serviced by the existing system shall be provided with at least one water service pipe. The water service pipe shall be installed as required by the standard specifications shown in Appendix A. For the purposes of this section, to be deemed to be serviced by the existing system, the service pipe shall be extended to the platted or planned parcel.

Section 5. Where planned lots will be serviced by an on-site wastewater system as allowed by the Administrative Rules of South Dakota (ARSD) 74:53:01 and the Ordinances of this District, the plans and specifications shall be submitted to the Superintendent for review and approval. Plans and specifications for any onsite wastewater system shall be prepared by a licensed plumber or registered professional engineer and shall be installed by a certified installer pursuant to ARSD 74:53:02.

ARTICLE V
CONDITIONS OF APPROVAL

Section 1. Plans and specifications shall be approved by the District in writing. Upon approval, the developer shall begin construction within two years and complete construction within three years, or the approval shall be void. The developer shall provide written notice to the Superintendent a minimum of seven days prior to commencing construction. The approved plans and specifications and any approved changes shall be on the jobsite at all times during construction.

Section 2. Deviation from the approved plans and specifications shall not be allowed without District approval in writing. Construction of works which deviate from the approved plans shall be at the Developer's risk and may not be accepted by the District. The Superintendent shall have the

authority to grant approval of deviations, in writing, from the approved plans where the Superintendent determines the deviation does not materially alter the plans and specifications. Deviations that materially alter the plans and specifications shall be subject to review and approval of the Board. The Superintendent may recommend approval or denial of such deviations. Approval or denial of such deviations shall be issued in writing.

Section 3. Water flows to newly installed water mains shall be restricted, except for water needed to test and flush lines, until such time that a Notice of Completion is submitted to the Superintendent, as-built plans are approved, and the District provides a certificate of substantial completion. Sewer flows from newly installed sewer mains shall be restricted, except for water needed to test and flush lines, until such time that a Notice of Completion is submitted to the Superintendent, as-built plans are approved, and the District provides a certificate of substantial completion.

ARTICLE VI
TRANSFER OF OWNERSHIP

Section 1. The District will accept responsibility for water and sewer infrastructure (systems) that have been installed by a developer upon a certificate of substantial completion, signed by the District. A maintenance bond for 20% of the amount of the work shall be provided to the District and dated to match the signed approval for substantial completion. The maintenance bond shall warrant the integrity of the work for a minimum of 24 months. At the end of the warranty period, the District will review the installation and provide any comments in writing to the developer to make any repairs necessary. Written notice of final approval shall be provided to the developer. Any problems with the water mains or sewer mains that occur during the warranty period must be resolved by the developer upon written notice by the District. If a developer fails to receive substantial completion, the District may refuse to take over the installed system in question. Any improvements or repair shall then remain the responsibility of the respective developer until such time the District accepts responsibility. For the purposes of this section, sewer main and water main includes the individual service pipes to the curb stop and/or lot line.

Section 2. Where transfer or ownership cannot be completed, the District will not issue substantial completion, nor will the District allow any lots to be serviced until substantial completion is provided. The Superintendent is authorized to disconnect any water and/or sewer service that has been prematurely connected without approval. Any usage of water prior to official acceptance will be charged to the developer and fines will be assessed to cover any and all costs associated with additional effort borne by the District to remedy the situation.

ARTICLE VII
TRANSFER OF EASEMENTS

Section 1. The developer shall obtain and cause to be recorded transferrable easements for all piping and appurtenances required to install, operate, and maintain the water distribution and wastewater collection and treatment system within a proposed development. Easements shall be perpetual easements running as a covenant with the land. Transfer of ownership, as set forth herein, shall not occur until such easements are legally recorded and copies of the recorded easements are provided to the District.

ARTICLE VIII
FEES FOR APPLICATION, INSPECTION AND DEVELOPMENT

Section 1. The developer shall submit the application form supplied by the Superintendent for all proposed improvements or planned developments within the boundaries of the District. The application fee for review of plans and specifications shall be $50.00 per planned lot or parcel except that the minimum application fee shall be $1,000.00.

Fees are payable when the application is submitted for approval. An application is not deemed complete until full plans and specifications are submitted, and all fees are paid.

Section 2. Once plans are approved consistent with the procedures set forth above and in the adopted standard specifications, the developer shall pay a developer fee for each set of plans which are approved in the amount of $4,000 per planned residential lot. Four and one-half (4.5) RV spots will be the equivalent to one residential lot for billing purposes. For other proposed developments/lots, an approximation of use will be determined and compared to residential lot use for billing determinations.

Section 3. The Board, by majority vote, may approve a variance to the requirement that all developer fees be paid prior to commencing work on the planned development. The terms of such variance shall be provided in writing and shall be signed by the Board President and an authorized party for the developer.

Section 4. The Board, by majority vote, may enter into an agreement to waive the developer fees specified herein, where doing so is mutually beneficial to the District and Developer. The terms of such agreement between the developer and the District shall be in writing and shall be signed by the Board President and an authorized party for the developer.

Section 5. Developer fees and application fees for new lots platted after January 1, 2021, shall not be assessed where a water and sewer service exists and terminates on the user's side of the lot line. For the purposes of this section, to demonstrate that a water and sewer service exists, a visual inspection shall be performed to test that water actually flows from the curb stop and the sewer service actually flows to the sewer main. The Superintendent shall observe such testing.

ARTICLE IX
POWERS AND AUTHORITY OF SUPERINTENDENT

Section 1. The Superintendent and other duly authorized employees or agents of the District bearing proper credential and identification shall be permitted to enter all properties for the purposes of inspection, observation, measurement, sampling, or testing pertinent to the installation of any new water and/or sewer infrastructure that are intended to be transferred to the ownership and operation of the District. The Superintendent shall make a reasonable effort to coordinate any inspection, observation, measurement, sampling, or testing pertinent to the installation with the developer.

Section 2. No excavation may be initiated in the vicinity of infrastructure owned or operated by the District without advance notice to the Superintendent and the subsequent receipt of approval.

ARTICLE X
ENFORCEMENT

Section 1. Any person found to be in violation of any provision of this Ordinance shall be formally served with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. The District reserves the right to commence legal action against any person who fails to comply.

Section 2. Any person found to be in violation of this Ordinance shall be liable to the District for any expense, loss or damage incurred by the District because of said violation.

ARTICLE XI
VALIDITY

Section 1. This ordinance shall be in full force and effect from and after its passage, approval, record, and publication as provided by law.

Section 2. The invalidity of any section, clause, sentence, or provision of this ordinance shall not affect the validity of any other part of this ordinance which can be given effect without such invalid part(s).

Section 3. Nothing in this Article or Ordinance shall prohibit or otherwise limit the District from commencing a separate civil action, whether equitable or legal, to remedy a violation of this ordinance.

Section 4. All ordinances which cover the same substance as this ordinance, or any portion of as previous ordinance which directly conflicts with the terms of this ordinance is hereby repealed as to those provisions which conflict.

Section 5. Nothing in this ordinance shall prohibit or otherwise limit the District from commencing a separate civil action, whether equitable or legal, to remedy a violation of this ordinance.

ARTICLE XII
WAIVER OF REGULATIONS

Section 1. When strict interpretation of the regulations set forth in this Ordinance would result in extreme hardship, the Board may waive such regulation or part thereof, provided that the waiver is consistent with the intent of these regulations, and that no imminent danger to public health or safety or to the environment exists. Any waiver granted must be in writing, include the reasons for granting the waiver and the notarized signature of the Superintendent. A copy of the waiver shall be filed with the District.

ARTICLE XIII
LIABILITY

Section 1. This Ordinance shall not be construed as imposing upon the District any liability or responsibility resulting from any defective portion of an on-site domestic wastewater disposal system, or the installation thereof. Nor shall the District or their employees be held as assuming any liability or responsibility by reason of authorized inspection.

ARTICLE XIV
CONFLICT

Section 1. In any case where a provision of these regulations is in conflict with the provisions of any zoning, building, fire, safety, or health regulations, law, or ordinance effective within the

jurisdictional boundaries of these regulations, the provisions that establish a higher standard or specification, or are more stringent in their requirements, shall control.

ARTICLE XV
ORDINANCE IN FORCE

Section 1. This Ordinance shall be in full force and effect from and after its passage and publication as required by law.

Section 2. Passed and adopted by the Board of Trustees of Spring Creek/Cow Creek Sanitary District on the 7th day of October, 2026, by the following vote:

Ayes: 5, Namely: Griffin, Forsch, Kopman, Schneider, Kondis

Nays: 0, Namely: _____

_____

Passed First Reading: Sep 9, 2026
Passed Second Reading: Oct 7 2026
Published: October 22, 2026

President,
Spring Creek/Cow Creek Sanitary District

ATTEST:

Clerk, Spring Creek/Cow Creek Sanitary District

Published once at the approximate cost of $435.61

Spring Creek / Cow Creek Sanitary District

APPENDIX A

PO Box 623 Pierre SD
Phone (605) 494-0364

Design and Construction Standards For Water and Wastewater Piping and Appurtenances

PART 1 - GENERAL

1.1 Description

A. This document applies to all underground potable water and wastewater systems and appurtenances installed within the jurisdictional boundaries of the Spring Creek / Cow Creek Sanitary District (SC/CCSD). References to plans shall include all plans and specifications necessary to complete the work.

1.2 Design Criteria, Specifications and Standards hereby referenced:

A. City of Rapid City, South Dakota, Infrastructure Design Criteria Manual, 2012 Edition or most current edition.
B. Recommended Design Criteria Manual for Wastewater Collection and Treatment Facilities, South Dakota Department Agriculture and Natural Resources, (DANR) current edition.
C. Recommended Standards for Water Works, "Ten States Standards", current edition.
D. National Standard Plumbing Code Illustrated, current edition.
E. American Water Works Association, Applicable Manuals of Water Supply Practices, current editions.
F. Uniform Fire Code, current edition.
G. Handbook of PVC Pipe Design, Unibell, current edition.
H. Gravity Sanitary Sewer Design and Construction, ASCE Manuals and Reports on Engineering Practice – No. 60 or current edition.
I. Recommended Standards for Wastewater Facilities, "Ten States Standards", current edition.
J. SC/CCSD Regulation of Sewer Use Ordinance, current edition.
K. SC/CCSD Regulation of Water Use Ordinance, current edition.
L. City of Rapid City Standard Plates. Specifically, but not exclusively, Sections 8, 9, and 11
M. City of Rapid City Standard Specifications for Public Works Construction, 2022 or current edition.
N. Where discrepancies occur between SC/CCSD or other standards, the more restrictive shall apply. Changes, additions and/or clarifications are listed in Part 2 and Part 3 of this document.

1.3 Enforcement and Authority

A. The Board of Trustees of SC/CCSD has the authority to interpret and enforce criteria, standards and construction requirements. Conflicts between specifications, design criteria manuals, codes and standards shall be resolved by the Board of Trustees or the Superintendent if the Board of Trustees elects to delegate said power.
B. Administrative Rules of South Dakota, ARSD 74:53:04 and 74:53:05.
C. This document is approved by the SC/CCSD Board of Trustees and is included as an Appendix to the current Regulation of System Expansion Ordinance.
D. The Superintendent, District staff, the Board of Trustees, and their designated Engineer will provide review and enforcement of the requirements.

1.4 Plan Submittal and Review

A. All plan submittals shall be made directly by the developer to the District Superintendent. Submittals from other agencies will not be accepted.
B. Submittals shall include the following:
   1. Plan Sets: Two (2) paper sets and an electronic copy of the complete set of construction plans proposed for improvements within the District.
   2. Specifications: Two (2) paper sets and an electronic copy of construction specifications and all associated documentation for proposed system improvements.
C. The submittals shall include complete construction plans, profiles, stationing, details, detailed specifications, general notes, reports and other information concerning the work. The submittals shall be prepared by a Registered Professional Engineer in the State of South Dakota. Such documents shall be complete, clear, neat, legible, detailed and in a form acceptable to SC/CCSD and any other local, city, county, state or federal review agency.
D. The design report shall include a water and/or sewer planning report for the ultimate development to be served. The report shall cover the proposed full-build out of the proposed development and it shall also review how the surrounding areas will be affected. The reports shall also include wastewater design flows, pipe capacities, existing conditions, hydraulic network, available fire flows at peak day demands, projected water usage, system pressures and other information required.
E. SC/CCSD Board of Trustees will approve the proposed water and sewer plans after all requirements of the development have been fulfilled. The SC/CCSD Board of Trustees may issue conditional approvals at the recommendation of the District's engineer, Superintendent, or district staff.
F. SC/CCSD review and approval applies only to water and sewer facilities. The project must be reviewed and approved by all appropriate local, county, and state governing agencies prior to any construction.
G. Plans will be reviewed and returned within forty five (45) days of submittal where the Superintendent does not require a review by the District's Engineer. Where review by the Districts engineer is required, the review period shall be extended to sixty (60) days. Review comments will be made by the District where plans do not meet minimum requirements. Plans shall be resubmitted for review and comment after modification. Comments made on the original submittal shall be returned with the new plan submittal.

All questions or comments shall be addressed and noted as such in response by the developer.

H. The Pierre Rural Fire Department or the Onida Fire Department may also review all water projects and may make review comments available to SC/CCSD. This review will be performed during the review period listed above.
I. Plans shall be submitted to the South Dakota Department of Agriculture and Natural Resources (DANR) by the Developer for review and approval prior to construction. SC/CCSD will not submit plans on behalf of the developer or the developer's engineer. A final set of plans approved by the DANR shall be received prior to approval by the SC/CCSD.
J. Nothing in the above prohibits or otherwise limits a developer from seeking preliminary review of plans and specifications by the SC/CCSD. Preliminary review or preliminary approval shall not be considered a final action or approval by the SC/CCSD.

1.5 Construction

A. Construction of the proposed water and sewer facilities must be completed by a Contractor holding a current Water and Sewer Installer's License issued by the State of South Dakota.
B. District personnel or agents acting on behalf of the District shall be given access to the work at all times to make inspections of the work. Inspections performed by the District or agents during the course of construction shall not constitute an acceptance of work performed or operate to relieve the developer's obligation to construct the project in compliance with the approved plans and specifications.
C. The District will not accept facilities not in conformance with specified standards.
D. Construction may not proceed until the District Board of Trustees approves the final plans.
E. Locations: Water and sewer facilities shall be located within the street, alley or right-of-ways unless topography dictates otherwise. Easements are required where the water and sewer facilities will be located outside of the rights-of-way.
F. All water and sewer appurtenances such as manholes, cleanouts, valves and fire hydrants shall be accessible by motorized vehicle.
G. The project will be accepted into the SC/CCSD system upon the following:
    1. Construction is complete and facilities can be placed into service for their intended use.
    2. All testing has been completed and the required results have been achieved.
    3. As-built drawings and electronic files are provided to SC/CCSD.
        - As-built drawings: Two (2) paper copies and an electronic copy in ACAD and PDF format shall be provided. Drawings shall include a complete set of drawings, including all plan and profiles of water, sewer, streets, storm water and standard details of all improvements within the boundaries of the District. Drawings shall depict lots, dimensions, right-of-way, easements, water and sewer infrastructure, including service lines, meters and any associated appurtenances.
        - Notes shall be taken during construction and documented on the drawings depicting any and all changes made during construction that deviates from the originally approved drawings and/or the

specifications.
- The drawings shall be prepared by a licensed engineer and submitted from the developer to the District Superintendent.

4. Facilities are in conformance with plans, specifications and District standards.
5. The engineer of record or the engineer providing construction administration for the project signs and seals a Notice of Completion form provided by the District.

1.6 Quality Control

A. Source Quality Control: Materials shall be clearly marked with size, class, type, test pressure and manufacturer's name.
B. Regulatory Agencies: Pipe for potable water service shall bear the National Sanitation Foundation Seal. AWWA and ASTM standards shall be followed where applicable.
C. Material testing during construction will be required- see referenced standards for details.

1.7 Product Submittals

A. Shop Drawings and Product Data:
   1. Dimensional data for all pipe, fittings and appurtenances.
   2. Material description and conformance with standards.
   3. Affidavit certifying compliance with applicable standards and specifications.
   4. Other items required to review product conformance with standard specifications.

PART 2 - WASTEWATER PIPING AND APPURTENANCES

2.1 Sewer Mains and Services

A. Minimum sewer main size is 8" which shall have a minimum slope of 0.4%. If larger diameter pipe is required or is shown in the SC/CCSD Master Plan, the Developer/Contractor will incur the cost of up-sizing. Pipe material shall be ASTM D-3034, SDR-35 or SDR-26 gasket sewer pipe. All sanitary sewer mains shall terminate at a manhole. Cleanouts shall not be allowed on sewer mains in lieu of manholes. All new sewer service lines shall have a fabricated pipe wye on the sewer main, GPK gasketed sewer fitting or equal (8"x4" is GPK No. 107-0084). Direct sewer taps are not allowed on new sewer mains.
B. Sewer services shall be installed to the property line and marked with a steel "T" post at the end of each service. Sewer services shall be installed to a maximum depth of 8' at the property line or at the proper depth to provide service to the proposed lot.
C. External or internal chimney seals are required on all manholes.
D. Minimum sewer main cover depth from the top of the pipe to finished grade shall not be less than 5.0 ft. Provide insulation per the standard detail in cases where minimum cover cannot be provided. Insulation may be required between storm sewer and sanitary sewers.
E. Minimum sewer service cover depth from the top of the pipe to the finished grade shall not be less than 5.0 ft. Provide insulation per the standard detail in cases where

minimum cover cannot be provided. Insulation may be required between storm sewer and sanitary sewers.

2.2 Lift Stations and Force mains

A. Lift stations shall be required where gravity flow of wastewater cannot be maintained. Where lift stations are required, the developer and the design engineer shall coordinate with the Superintendent to match the type of controls, pumps, and other appurtenances to provide continuity with existing systems to the extent possible. Where new technologies or systems with improved performance can be installed, the Superintendent may recommend installation of such technologies or systems for approval from the SC/CCSD Board of Trustees.

B. Lift stations approved for construction after March 1, 2024, shall be designed and include backup power generation equipment suitable to operate the lift station at full capacity. The location of the lift station shall be such that District staff are provided a minimum clear distance around the facility of four feet for performing maintenance. The easement shall be adequate to allow for servicing of the equipment within the easement bounds and provide a minimum distance from any property line of 10 feet. A minimum 6 ft high fence shall be provided around any lift station with lockable gate. Fence shall be chainlink or solid material designed to prevent access.

C. All lift stations shall include plans and specifications for the pumps, guide rails, structure, building, fencing, back-up power, control systems and all electrical components. Plans and specifications shall be prepared by a Registered Professional Engineer licensed in the state of South Dakota.

2.3 Sewer Testing and Inspection

A. Sewer piping shall be evaluated for sags or bellies within the piping. Piping shall be installed with completed backfill for at least 30 days prior to evaluation. Sags or bellies exceeding 10 percent shall be repaired prior to acceptance by SC/CCSD. Piping may be evaluated by SC/CCSD at the end of the 2-year warranty period. Sags or bellies exceeding 10 percent at the end of the 2-year warranty period may require repair.

B. Closed Circuit Television (CCTV) Inspection.
   1. The Contractor shall arrange and pay for internal CCTV inspection of the completed sewer mains.
   2. The CCTV inspection shall be performed by an SC/CCSD approved contractor.
   3. Upon completion of the inspection, an electronic copy of the videos and pictures shall be provided to the District Superintendent. The District will review the video for approval prior to acceptance of the system. The inspections shall be completed in accordance with NASSCO standards for documentation.

PART 3 - WATER PIPING AND APPURTENANCES

3.1 Water Mains, Fittings, and Appurtenances

A. Fittings shall be fusion bonded epoxy ductile iron AWWA C-153, Class 350 mechanical

joints with retainer glands or approved joint restraining devices shall be used where joint restraint is required by the plans or in this specification. Mechanical joint restraints are required at all fittings and pipe bells within the restraining length.

B. All ductile iron fittings and joint restraining devices shall be encased in 8 mil polyethylene per the Standard Specifications.
C. All metallic water fittings/services in contact with potable water shall be "No Lead" brass alloy and "NL" shall be cast or permanently stamped on the fitting or valve. Fittings and valves shall comply with the USA Safe Drinking Water Act, and US EPA.
D. All pipe couplings shall be restrained mechanical joint sleeves with restraints allowing a maximum of 5-degree deflection.
E. Existing mains must remain in-service until the new water main is complete, disinfected, and pressure tested.
F. Water mains shall be PVC AWWA C-900 or C-905, DR 18, Pressure Class 235. Minimum main size is 6". If larger diameter is required for fire flow purposes or for future development the Developer/Contractor will incur the cost of up-sizing. When looping piping where pipe sizes differ, the loop shall be constructed of the larger size piping or as approved by the District.
G. All main valves shall be mechanical joint non-rising stem resilient seat gate valves. Butterfly valves are not allowed.
H. Fire hydrants shall be American Darling model B-84, American Flow Control, or Mueller.
I. Ductile iron fittings shall be mechanical joint and fusion-bonded epoxy coated. Use of American-made products is recommended.
J. Concrete thrust restraints are considered permanent restraint and required. Mechanical restraints are considered temporary.
K. Fittings shall be mechanically restrained at all vertical bends, all fittings on lowering's, reducers, tees and valves. Restraints are not required on horizontal bends of 45 degrees or less where properly thrust blocked. Acceptable joint restraining devices shall be EBBA, Uni-Flange , Romac Field Flange or Alpha Fittings.
L. Pipe joints for PVC water main shall be push-on bell and spigot. Where water main pipe joints are located closer than the restraining length to a restrained valve or fitting, the bell joint shall be restrained with a bell restraint fitting. The designer shall provide restraining length designs.
M. Bolts for mechanical joints shall be NSS "Cor-Ten Blue" corrosion resistant type or stainless with a minimum of 304 rating. (Type 304 stainless will be used if soil test is moderate-to-severe for being corrosive)
N. Tapping sleeves shall be stainless steel construction with a minimum 200 psi rating. The branch end shall be flanged and stainless-steel bolts and nuts shall be provided. A flange by mechanical joint valve shall be installed on the tapping sleeve.
O. Testing and disinfection per standard specifications. The Contractor is responsible for all testing, tapping, disinfection and water sampling.
P. Tracer wire is required on all water main and locator boxes will be placed at all fire hydrant locations. The Contractor shall coordinate all tracer wire splice locations with SC/CCSD staff or agents.
Q. Water mains shall be bedded with a type 1 or type 2 bedding material.

R. Water mains shall be laid in straight lines with deflection or curving of the pipe accomplished by appropriate fittings only.

3.2 Water Service Lines

A. Minimum service line size is 1".
B. Direct tapping into the water main is not allowed. A tapping saddle must be used.
C. Tapping saddles and corporation stops are required. Tapping and all materials are the responsibility of the Contractor. The District reserves the right to observe all water main taps. For all taps to existing pressurized lines under the operational control of the District, the Contractor shall contact and schedule the proposed tap with the District a minimum of 2 working days prior to anticipated tap.
D. Tapping saddles shall be solid band 304 stainless steel construction with stainless steel nuts and bolts. Tapered Buna-N ASTM D-2000 rubber gasketed (Ford FS303 or equal).
E. One inch (1") through two-inch (2") diameter shall be iron pipe size (IPS) poly SIDR 7, 250 psi minimum rating; with stiffener inserts at each curb stop, fittings, and corporation stop. Tubing shall meet the requirements of AWWA C901, NSF Standards 14 and 61, and shall have the material designation of PE3608 by the Plastic Pipe Institute.
F. Compression type connections with inserts are required. (No yellow brass allowed. Red brass only).
G. Splices are not allowed along the service line. Service line must be continuous.
H. Piping over 2" and less than 4" shall be PVC service line pipe and shall comply with ASTM D-2241, 200 psi minimum rating, SDR 21. 4" and larger shall be C-900 PVC.
I. Tracer wire shall be installed at each service line and be exposed at the curb box. A ¼" hole will be drilled in the lid of the curb box and tracer wire ran through. Do not cut the tracer wire when continuing to house. On new construction of service lines to the house a tracer wire is required from the curb box to the water meter or valve inside the meterpit with a tracer wire exposed at the curb box lid through the ¼" hole or holes that are drilled in the curb box lid.
J. Curb stops with boxes shall be placed on each new service line as close as practicable to the property line on the lot side of the line or as shown on the plans.
K. Curb boxes shall be marked with a steel fence post.
All curb boxes shall be adjustable and installed to finish grade. Finished grade is defined as the top of finished and graded topsoil. All curb boxes shall be wrapped in 8 mil polyethylene.
L. Curb boxes shall be Minneapolis pattern No. 5622 (1-1/2") or Buffalo style 100E curb box with bushings added to curb stop or as approved by the Superintendent.
M. Water services shall be bedded in the same manner as the water main the service is connected to.
N. Select soil material is required for a minimum of 18" above the pipe and shall include no rocks 2" or larger in nominal diameter.

3.3 Design Standards for Spring Creek / Cow Creek Sanitary District Water Systems:

A. Minimum working pressure at peak hour demand shall be 35 psi.
B. Shut off valves shall be installed on each leg of a branch or tee and at a maximum spacing

of 1,000 feet.

C. Pipe looping is required and shall be at the developer/contractor's cost unless a cost share agreement is entered into by the District and approved by the Board of Trustees prior to construction.
D. Maximum fire hydrant spacing shall be 500 feet and at all intersections and high points. Fire hydrants shall be preceded by a gate valve.
E. Minimum burial depth shall be 6 feet to the crown of the pipe. Insulation may be required at storm sewer crossings and ditch crossings where 6 feet of cover cannot be maintained.

PART 4 – LOCATION AND CORROSION PROTECTION SYSTEMS

4.1 Corrosion Protection Systems

A. Corrosion protection systems as included in the City of Rapid City Standard Specifications for Public Works Construction, 2022 edition, shall not be required unless otherwise discussed by the District at time of submittal.

4.2 Location Systems

F. Tracer wire shall be as required by the standard specifications and details. The Superintendent may approve use of alternative wire, connection, and termination components.

**** END OF SECTION ****