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<b>Item</b>	<b>Title</b>	<b>Page</b>	<b>Subsection</b>	<b>Modification</b>
1.	Products and Materials	200-46	V.5.10.A.8 Ductile-Iron (DI) Pipe	Insert the following sentence at the beginning of the subsection: “8. All ductile iron pipe and fittings shall be double thickness cement lined and seal coated in accordance with ANSI/AWWA C104/A21.4.”
2.	Products and Materials	200-47	V.5.10.B.1 Polyvinyl Chloride (PVC) Pipe	Delete “13- or” from the sentence.
3.	Products and Materials	200-49	V.5.10.E.1.a Gate Valves	Delete the sentence and replace with the following: “1.a Gate valves shall be manufactured by Mueller Company 2360 Series or Kennedy Valve Company Kenseal II, or approved equal.”
4.	Products and Materials	200-49	V.5.10.E.1.c Gate Valves	Delete paragraph in its entirety.
5.	Products and Materials	200-49	V.5.10.E.3 Valve Operators	Revise the first sentence to read as follows: "Buried valves shall have a two-inch square operating nut conforming to AWWA C509, and shall open counter clockwise."
6.	Products and Materials	200-50	V.5.10.F.4 Service Saddle	Revise the first sentence to read as follows: “Service Saddle - Shall be designed and sized for the force main on which the saddle is to be installed.
7.	Products and Materials	200-51	V.5.10.G.5 Concrete Reaction Blocking	Delete in its entirety and replace with the following: “Concrete reaction blocking shall not be permitted, unless approved by JCSA; except concrete reaction blocking shall be required where existing pressure pipelines are being tapped. Tapping sleeve and hardware shall be wrapped with 6 mil polyethylene prior to placing the concrete.”

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8.	Products and Materials	200-51	V.5.10.H Tapping Valves and Sleeves	<p>Delete paragraphs three through five and replace with the following:</p> <p>“3. Tapping sleeves shall be constructed of all stainless steel conforming to the following requirements:</p> <ul style="list-style-type: none"> <li>a. Flange - The flange shall be 18-8, type 304 stainless steel, with recess to accept the standard tapping valve according to MSS-SP60. The flange shall also conform to AWWA C207-latest revision, Class D ANSI 150 lb. drilling. The bolt hole shall be aligned to straddle the pipe center line.</li> <li>b. Body - The body shall be 18-8, type 304 stainless steel. All welds shall be fully restored to stainless steel characteristics.</li> <li>c. Gaskets - The gaskets shall be virgin SBR compounded for water service. ASTM D2000 8M 4AA607. The gasket shall be a full 360 degree pipe coverage. The outlet gasket shall be Buna-N.</li> <li>d. Test Plug - Provide a waterworks brass 3/4-inch test plug with standard square head.</li> <li>e. Bolts and Nuts - The bolts and nuts shall be 18-8, type 304 stainless steel NC threads. Provide heavy hex nuts and washers fluorocarbon coated to prevent galling.</li> </ul>

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				f. Manufacture - Acceptable manufacturer is the Ford Meter Box Co., Inc., Model FTSS, Smith-Blair Style 665, Romac Industries Inc., SST or JCM Industries, Inc., Model 432, or approved equal.
9.	Products and Materials	200-52	V.5.10.I.3.c Sleeves and Couplings	Add Ford Meter Box Company, Inc., Ultra-Flex FC2W and Mueller Company, AquaGrip as approved products.
10.	Products and Materials	200-53	V.5.11.B.1 Polyvinyl Chloride (PVC) Pipe and Fittings	Delete “13- or” from the sentence.
11.	Products and Materials	200-53	V.5.11.C ABS or Composite (Truss) Pipe and Fittings	Delete this section entirely as Truss Pipe is not accepted in James City County.
12.	Products and Materials	200-54	V.5.11.D.3 Manholes	Delete entirely and replace with the following: “Manhole joints shall be sealed with butyl rope gaskets.”
13.	Products and Materials	200-54	V.5.11.D.6 Manholes	Add International Precast Supply Flexible Pipe to Manhole Connector as an approved product.
14.	Products and Materials	200-55	V.5.11.F Clean-out Assemblies	Delete “Fernco coupling or Non-Shear DFW-HPI” and replace with “Ford Meter Box Company, Inc. Ultra-Flex FC2W coupling with stainless steel bolts”.

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15.	Products and Materials	200-61	V.5.19.B.1 Polyvinyl Chloride (PVC) Pipe	Delete “13- or” from the sentence.
16.	Products and Material	200-61	V.5.19.B.2 Water Distribution Systems	Delete the following sentence: “PVC pipe greater than 12-inches in diameter shall be AWWA C-905 -Class 235 (DR 18) or Class 150 (DR 25), as specified on the Drawings.” Note pipe sizes larger than 12-inch shall be ductile iron pipe or as approved by JCSA
17.	Products and Materials	200-63	V.5.19.F.1.a Gate Valves	Delete the sentence and replace with the following: “1.a Gate valves shall be manufactured by Mueller Company 2360 Series or Kennedy Valve Company Kenseal II, or approved equal.”
18.	Products and Materials	200-63	V.5.19.F.1.c Gate Valves	Delete paragraph in its entirety.
19.	Products and Materials	200-64	V.5.19.F.4 Valve Operators	Revise the first sentence to read: “Buried valves shall have a two-inch square operating nut conforming to AWWA C509, and shall open counter-clockwise”.
20.	Products and Materials	200-64	V.5.19.H.2 Fire Hydrants	Add the following sentence: “The upper standpipe shall be painted OSHA Red and the nozzle caps and dome shall be painted gloss white”.
21.	Products and Materials	200-65	V.5.19.H.6 Fire Hydrants	Delete the sentence and replace with the following: “Fire hydrants shall be Mueller Centurion - A 423, American Flow Controls American Darling B84B, or Kennedy Guardian K-81, or U.S. Pipe, Metropolitan 250, Model 94. The operating nut shall turn left (counter-clockwise) to open the fire hydrant.”

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22.	Products and Materials	200-66	V.5.19.J.2 Water Meters	Revise to read: "Water meters shall be provided in accordance with Section 2.27 of the JCSA Criteria manual."
23.	Products and Materials	200-67	V.5.19.J.3 Water Meters	Delete the paragraph and replace with the following: "3. Water meter box and meter yokes shall be as manufactured by Ford Meter Box Company Inc and Mueller, or approved equal, as specified on JCSA details W14.0, W14.1 and W15.0. Meter Box shall have a non-locking lid. Meter yoke shall be of the riser-type complete with key operated shut-off valve on the inlet side of the yoke. Meter yokes shall be compatible with approved meters."
24.	Products and Materials	200-67	V.5.19.K.4 Concrete Reaction Blocking	Delete in its entirety and replace with the following: "Concrete reaction blocking shall not be permitted, unless approved by JCSA; except concrete reaction blocking shall be required where existing pressure pipelines are being tapped. Tapping sleeve and hardware shall be wrapped with 6 mil polyethylene prior to placing the concrete."
25.	Products and Materials	200-68	V.5.19.L.3 Tapping Valves and Sleeves	Delete paragraph and replace with the following: "3. Tapping sleeves shall be constructed of all stainless steel conforming to the following requirements:  a. Flange - The flange shall be 18-8, type 304 stainless steel with recess to accept the standard tapping valve according to MSS-SP60. The flange shall also conform to AWWA C207 - latest revision, Class D ANSI 150 lb. drilling. The bolt hole shall be aligned to straddle the pipe centerline.  b. Body - The body shall be 18-8, type 304 stainless steel. All

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				<p>welds shall be fully restored to stainless steel characteristics.</p> <p>c. Gaskets - The gaskets shall be virgin SBR compounded for water service. ASTM D2000 8M 4AA607. The gasket shall be a full 360 degree pipe coverage. The outlet gasket shall be Buna-N.</p> <p>d. Test Plug - Provide a waterworks brass 3/4-inch test plug with standard square head.</p> <p>e. Bolts and Nuts - The bolts and nuts shall be 18-8, type 304 stainless steel NC threads. Provide heavy hex nuts and washers fluorocarbon coated to prevent galling.</p> <p>f. Manufacture - Acceptable manufacturer is The Ford Meter Box Co., Inc., Model FTSS, Smith-Blair Style 665, Romac Industries Inc., SST or JCC Industries Inc., Model 432, or approved equal.</p>
26.	Products and Materials	200-69	5.19.M.6 Sleeves and Couplings	Add Ford Meter Box Company, Inc., Ultra-Flex FC2W and Mueller Company, AquaGrip approved products.
27.	Abandonment of Existing Pipelines and Structures	530-3	II.2.1.E Laterals and Cleanouts	Revise paragraphs 1.c, 2.a and 3 to read as follows: “Plugging at the sewer main with a grout plug by open cut excavation or internal grout plugging from inside the main”.

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28.	Water Distribution Systems	801-4	II.2.2.F Tracer Wire	Revise the first sentence to read as follows: “All underground pressure pipe systems shall be installed with continuous tracer wire, conforming to Section 200, attached every 10-feet with plastic strapping to the piping system.”
29.	Water Distribution Systems	801-4	II.2.4.B Hydrant Installation	Revise the second sentence to read as follows: “Nozzles shall be set 18 to 24-inches above finished grade (measure from established finished grade to the centerline of the nozzle).”
30.	Water Distribution Systems	801-5	II.2.7.B Connections to Existing Mains	Revise to require <b>“72-hours”</b> notification.
31.	Water Distribution Systems	801-8	II.2.7.I Offsets to Existing Water Main	Add the following notes: “14. The Engineer and Contractor shall have a coordination meeting with JCSA personnel at least 10 days prior to the planned waterline shutdown and provide a written Schedule of the work. The Schedule shall be a detailed work plan including valve operation, installation procedures and testing processes. An anticipated timeline of the shutdown shall also be provided by the Contractor. JCSA shall review the Schedule and either approve it or meet with the Engineer and Contractor within 3 business days after receipt of the Schedule to satisfactorily modify it. 15. It will be the responsibility of the Contractor to contact all residents, businesses and fire department 48 hours in advance of interrupting service.”

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				<p>16. The Contractor shall notify JCSA at least 5 business days in advance of performing the offset/shutdown. Work can be delayed maximum 48 hours from the anticipated shutdown if due to inclement weather and is approved by JCSA. Otherwise, rescheduling and re-notification of customers will be required.</p> <p>17. Work can be scheduled between 7 a.m. Monday to 4 a.m. Friday. No Work shall be scheduled/performed after 4 a.m. Friday, on Saturday, Sunday or on Holidays. It is preferred that Work be performed during normal business hours. However, avoiding customer shutdowns and high demand periods may require off hours Work.</p>
32.	Water Distribution Systems	801-9	II.2.8.A.5 Testing and Inspection	<p>Replace with the following:</p> <p>“5. Prior to initiating testing, Contractors shall fill and soak water mains for a minimum of 24 hours. The JCSA Inspector shall be notified 3 business days prior to flushing and will confirm with the JCSA Chief Water Engineer that adequate water is available for flushing. Contractor shall provide the required duration and volume to the Inspector. Flushing will be scheduled only on Mondays, unless authorized otherwise by JCSA, and will be on a first come-first serve basis.</p>
33.	Water Distribution Systems	801-11	II.2.8.D.2.a Disinfection Solution	<p>Add the following sentence: “Initial chlorine concentrations shall not exceed 100-ppm.”</p>

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34.	Sanitary Gravity Sewer Systems	802-7	II.2.4.A Testing and Inspection	<ol style="list-style-type: none"> <li>1. Modify Paragraph 1 as follows: “ All flushing, air, vacuum, or infiltration....”.</li> <li>2. Add the following paragraph: “7. No testing shall be performed on sanitary sewer lines until 30 days following complete filling of the trench to the proposed subgrade elevation.</li> </ol>
35.	Sanitary Gravity Sewer Systems	802-8	II.2.4.B.1.b Deflection Test	Delete entirely, as JCSA does not require deflection testing unless visual inspection, or internal television inspection, so warrants.
36.	Sanitary Gravity Sewer Systems	802-10	II.2.4.B.1.c.(2) Infiltration	Delete entirely, as JCSA does not allow Infiltration testing.
37.	Sanitary Gravity Sewer Systems	802-10	II.2.4.B.1.d Remote Camera/TV Inspection	JCSA requires television inspection for <b>gravity sewer mains and service laterals</b> . For development construction, television inspection shall not be performed until the letter certifying that all other utilities have been installed, is received by the JCSA.
38.	Sanitary Force Main Systems	803-3	II.2.2.F Tracer Wire	Revise the first sentence to read as follows: “All underground pressure pipe systems shall be installed with continuous tracer wire, conforming to Section 200, attached every 10-feet with plastic strapping to the piping system.”
39.	Sanitary Force Main Systems	803-5	II.2.6.B Connections to Existing Mains	Revise to require “ <b>72-hours</b> ” notification.

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40.	Sanitary Force Main Systems	803-7	II.2.6.J Offsets to Existing Force Main	<p>Add the following notes:</p> <p>“14. The Engineer and Contractor shall have a coordination meeting with JCSA personnel at least 10 days prior to the planned force main shutdown and provide a written Schedule of the work. The Schedule shall be a detailed work plan including any pump station shutdowns, pump and hauls, valve operation, installation procedures and testing processes. An anticipated timeline of the shutdown shall also be provided by the Contractor. JCSA shall review the Schedule and either approve it or meet with the Engineer and Contractor within 3 business days after receipt of the Schedule to satisfactorily modify it.</p> <p>15. The Contractor shall notify JCSA at least 5 business days in advance of performing the offset/shutdown. Work can be delayed maximum 48 hours from the anticipated shutdown if due to inclement weather and is approved by JCSA. Otherwise, rescheduling will be required.</p> <p>16. Work can be scheduled between 7 a.m. Monday to 4 a.m. Friday. No Work shall be scheduled/performed after 4 a.m. Friday, on Saturday, Sunday or on Holidays. It is preferred that Work be performed during normal business hours.</p>
41.	Separation of Water Mains and Sewers	805-1	I.1.1 Factors to be Considered	<p>Add the following paragraphs:</p> <p>“H. Space for repairs and alterations of water and sewer mains. I. Identification of the physical restraints preventing normal separation.”</p>
42.	Sewer Line Cleaning	810-3	II.2.2.A.4 Cleaning Operations	<p>Revise the first sentence to read as follows:</p> <p>“ Existing flows shall not be interrupted for periods longer than necessary, but in no case shall back-ups into homes or sewer overflows be permitted.”</p>

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43.	Television Inspection	811-1	I.1.2.A Submittals	Revise the second sentence to read as follows: “The storage media shall be coordinated with JCSA prior to initiating the job. The storage media shall be compatible with JCSA viewing capabilities.”
44.	Point Repair by Excavation	818-2	II.2.2.E, F & G Installation	Delete references to “Fernco Strong Back RC or approved equal” and “flexible” couplings, as JCSA does not permit the use of these couplings. For acceptable sleeves and couplings, refer to Section 200 and associated JCSA Special Provisions.
45.	Sanitary Sewer Service Reconnections	821-5	II.2.2.C.2 Reconnection or Replacement Segments	Revise the third sentence to read as follows: “Reconnect new service lateral to existing service lateral with fittings of compatible materials or approved coupling.”

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1.	Standard Details	WD_01	Single & Dual Service Connections	Revise the detail as follows: <ol style="list-style-type: none"> <li>1. Add the following note: “The single service water meter box shall also be a minimum of 2.5-feet from a property line”</li> <li>2. Revise the first sentence of Note 3 to read as follows: “All ductile iron mains shall be tapped with saddles.”</li> <li>3. Delete the last sentence of Note 3 and replace with the following: “Saddles shall be as specified in Section 200.”</li> <li>4. Multiple services (3 or 4 off the same service line) shall use a Ford “Y” (Y11-474) with appropriate brass compression couplings. Permitted where approved by JCSA.</li> </ol>
2.	Standard Details	WD_02	Water Service Installation Detail	Replace with JCSA Typical Water Meter Installation detail, Drawing No. W13.0.
3.	Standard Details	WD_03 and WD_04	Water Meter Box (Type I & II)	Delete these details and replace with JCSA 5/8 x 3/4 through 1-inch Meter Setting detail, Drawing No. W14.0.
4.	Standard Details	WD_05	Blow-Off Assembly	Revise detail as follows: <ol style="list-style-type: none"> <li>1. Revise Note 2 to read as follows: “2. A blow-off is to be used on pipe sizes less than 16-inches in diameter, or as directed by JCSA.</li> <li>2. Revise Note 3 to read as follows: “3. A fire hydrant is to be used as a blow-off assembly for pipe sizes 16-inches or greater, or as directed by JCSA.”</li> </ol>

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5.	Standard Details	WD_06 WD_07 and WD_08	Fire Hydrant Setting (Type I, II & III)	Revise detail as follows: <ol style="list-style-type: none"> <li>1. Delete the blocking behind the hydrant base.</li> <li>2. The stone around the base of the hydrant shall extend at least 1.5 feet below the hydrant and at least 1.5 feet on each side.</li> <li>3. Concrete restraint behind main line tee is only required by JCSA when connection is to an existing main.</li> <li>4. Provide stone around valve per Detail No. WS_02.</li> <li>5. The six-inch valve shall be installed in accordance with the Valve Setting Detail No. WS_02.</li> <li>6. Fire hydrants to be installed within existing or proposed VDOT right-of ways shall be located in accordance with VDOT requirements.</li> </ol>
6.	Standard Details	WD_10	Precast Concrete Vault - Non Load Bearing (3" thru 10" Water Meter Assemblies)	Revise detail as follows: <ol style="list-style-type: none"> <li>1. Revise Note 3 to read: "Meter to be purchased and installed by the Developer/Contractor".</li> <li>2. Add the following to the notes on Sheet 1 of 2:               <ol style="list-style-type: none"> <li>4. Vault shall be provided with gravity drainage to atmosphere or a 1-foot square sump provided.</li> <li>5. Joints exterior to the vault shall be restrained.</li> <li>6. Pipe supports shall be stainless steel as manufactured by Stand-on or approved equal."</li> </ol> </li> <li>2. Revise Vault Section as follows:               <ol style="list-style-type: none"> <li>a. Remove requirement for coupling in the vault.</li> <li>b. Remove "Core Wall" and replace with "Provide a galvanize wall sleeve (typ).</li> </ol> </li> <li>3. Revise Vault Plan as follows:               <ol style="list-style-type: none"> <li>a. Delete the 4-foot vault width requirement. Vault width dimension shall be based on providing a</li> </ol> </li> </ol>

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				<p style="text-align: center;">minimum 2-foot edge-to-edge clearance between the water meter and vault walls.</p> <p>b. Vault shall be designed and sealed by a structural engineer registered in the Commonwealth of Virginia. Vault detail shall be provided on the plans.</p> <p>c. Vault shall be painted in accordance with JCSA detail VPT.1.</p>
7.	Standard Details	WD_11	Precast Concrete Vault - H20 Loading (3" thru 10" Water Meter Assemblies)	<p>Revise detail as follows:</p> <p>1. Add the following notes:</p> <p>“1. Provide positive drainage away from vault. 2. Top elevation as per plan. 3. Meter to be purchased and installed by the Developer/Contractor . 4. Vault shall be provided with gravity drainage to atmosphere or a 1-foot square sump provided. 5. Joints exterior to the vault shall be restrained. 6. Pipe supports shall be stainless steel as manufactured by Stand-on or approved equal.”</p> <p>2. Revise Vault Section as follows:</p> <p>a. Remove requirement for coupling in the vault. b. Remove “Core Wall” and replace with “Provide a galvanize wall sleeve (typ).”</p>

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				3. Revise Vault Plan as follows: <ol style="list-style-type: none"> <li>a. Delete the 4-foot vault width requirement. Vault width dimension shall be based on providing a minimum 2-foot edge-to-edge clearance between the water meter and vault walls.</li> <li>b. Vault shall be designed and sealed by a structural engineer registered in the Commonwealth of Virginia. Vault detail shall be provided on the plans.</li> <li>c. Vault shall be painted in accordance with JCSA detail VPT.1.</li> </ol>
8.	Standard Details	WD_12	Metal Meter Vault (3" thru 8" Water Meter Assemblies)	Delete detail as metal meter vaults are not allowed in JCSA systems. Fiberglass vaults are also not allowed.
9.	Standard Details	SS_01 & SS_03	Standard Precast Concrete Manhole w/Extended monolithic Base & Sanitary Sewer Straddle Manhole	Revise details as follows: <ol style="list-style-type: none"> <li>1. Manhole steps are required. Steps shall be "wedge-lok" rubber coated steel steps or approved equal, and shall be cast in place.</li> <li>2. Rims of manholes in non-maintained and non-traffic areas shall be 12-inches minimum above the surrounding grade.</li> <li>3. Flat top slabs are not permitted for these installations and shall only be used on shallow manhole installations (depth less than 4-feet), unless authorized otherwise by JCSA.</li> </ol>
10.	Standard Details	SS_04	Sanitary Sewer Interior Drop Manhole	Revise detail as follows: <ol style="list-style-type: none"> <li>1. Delete the word "optional" referring to the PVC cap, 2/3 pipe diameter, at the tee inside the manhole. JCSA requires the</li> </ol>

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				<p>cap.</p> <p>2. Revise the note reference for the Transition Coupling from "See Note 2" to "See Note 3".</p> <p>3. Add the following sentences to Note 3 as follows: "3. JCSA requires the transition coupling to be placed directly to the tee within the wall of the manhole opening. No pipe joints or couplings shall be permitted within 10-feet of the manhole."</p> <p>4. Add note 8 as follows: "The interior drop shall be no more than 6-inches from the manhole wall.</p>
11.	Standard Details	SS_05	Sanitary Sewer Exterior Drop Manhole (For Existing Manhole)	Delete this detail as JCSA does not allow exterior drop manholes.
12.	Standard Details	SS_11	Sanitary Service Lateral Clean Out Frame and Cover	Revise Note #1 to read as follows: " 1. Cleanout frame and cover to be supplied by Capital Foundry of Virginia, Inc (Phone # 757-427-9431) Model number NPN-CW-18* or approved equal."
13.	Standard Details	SS_12	Sanitary Service Lateral Clean Out Frame and Cover for Heavy Loads	Revise Note #2 to read as follows: " 2. Cleanout frame and cover to be supplied by Capital Foundry of Virginia, Inc (Phone # 757-427-9431) Model number VB9*S or approved equal."

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14.	Standard Details	SS_14	Sanitary Sewer Service Connection	Revise detail as follows: 1. In James City County the clean out shall terminate at the property line, right-of-way or easement line, unless otherwise authorized. 2. Add Note 3 as follows: "3. For tapping an existing sewer main, use "sealtite" sewer pipe saddle or approved equal." 3. Delete "Fernco Strong Back RC or approved equal coupling" from the detail and replace with "Rigid Coupling". Fernco couplings are not permitted on JCSA infrastructure. Refer to Section 200 and JCSA Special Provisions for acceptable couplings.
15.	Standard Details	SS_16	Deep Sanitary Sewer Service Connection	1. Deep sanitary sewer service connections shall be used where mains are 12 feet or deeper. 2. Delete "Fernco Strong Back RC" from the detail and replace with "Rigid Coupling". Fernco couplings are not permitted on JCSA infrastructure. Refer to Section 200 and JCSA Special Provisions for acceptable couplings.

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16.	Standard Details	WS_02	Valve Setting Detail	Revise detail as follows: <ol style="list-style-type: none"> <li>1. Revise stone bedding depth from “6-inches” to “8-inches” beneath the valve box frame and cover and above the main to support the valve box.</li> <li>2. Replace the first sentence of Note 1 with the following: “The top of the operating nut shall be no more than 12 to 24-inches below the top rim of the valve box (as measured from final grade). The Contractor shall install an approved valve stem extension devices where necessary to comply with this requirement.”</li> </ol>
17.	Standard Details	WS_03	Manual Air Vent Assembly	Revise detail as follows: <ol style="list-style-type: none"> <li>1. Add “6-inches” as #57 stone bedding requirement above the main to support the valve box.</li> <li>2. Revise the first sentence of Note 2 to read as follows: “All ductile iron mains shall be tapped with saddles.”</li> <li>3. Delete the last sentence of Note 2 and replace with the following: “Saddles shall be as specified in the JCSA Special Provisions.”</li> <li>4. Revise the separation between valve box cover to the 2" brass threaded cap from “4" min/6" max” to “8"min/10" max”.</li> <li>5. Provide a 2-inch single check valve (straight in-line accessible) above the corporation stop with flow direction oriented towards the frame and cover. Check valve shall only be provided for water distribution systems. Acceptable manufacturers are The Ford Meter Box Co., Inc., Model HS11-777, NIBCO Model T-413 or equal.</li> </ol>

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				6. Add "12-inches max" for the 2" Ball Valve location from the valve box cover.
18.	Standard Details	WS_04	Steel Casing Detail	Revise detail as follows: 1. Delete "Brick and Mortar Cap" as it is not permitted. Add Cascade C&ES Rubber End Seal as an approved product for sealing the steel casing. 2. Add Note 5 and 6 as follows: "5. For gravity sewer pipelines, manholes shall not be placed closer than 5-feet minimum to one end and 25-feet minimum to the other end of the casing pipe." 6. Carrier pipe installation to be witnessed by JCSA."
19.	Standard Details	JCSA W15.0	1-1/2" and 2" Water Meter Setting	Add Detail
20.	Standard Details	JCSA W16.0	Water Sample Station Detail	Add Detail
21.	Standard Details	JCSA W17.0	Detector Check Valve Assembly for Fire Suppression Systems	Add Detail
22.	Standard Details	JCSA W23.0	Temporary Construction Meter Installation	Add Detail
23.	Standard Details	JCSA S12.1	Manual Air Release Valve for 3-inch and Smaller Diameter Force Mains	Add Detail
24.	Standard Details	JCSA S12.2	Low Pressure Force Main Terminal Flushing Assembly	Add Detail

**JCSA Special Provisions to the  
HRPDC Regional Construction Standards (Fourth Edition)  
Appendix A**

<b>Item</b>	<b>Title</b>	<b>Detail</b>	<b>Name</b>	<b>Notes/Modifications</b>
25.	Standard Details	JCSA S16.0	Typical Anchor Detail for Grades over 20 Percent	Add Detail
26.	Standard Details	JCSA GP-1, GP-2, GP-3 & GP-3.1	Residential Grinder Pump Installation Details	Add Detail
27.	Standard Details	JR.1	Joint Restraint Table	Add Detail
28.	Standard Details	JCSA PB.1	Pipe Bridge	Add Detail
29.	Standard Details	JCSA PC.1	Pipe Crossing Detail	Add Detail
30.	Standard Details	JCSA PP.1	Bituminous Pavement Patching for Utility Installation within VDOT Secondary Roads	Add Detail
31.	Standard Details	JCSA VPT.1	Meter Vault Paint Table	Add Detail