

Appendix B



Approved Products List

AURORA WATER APPROVED PRODUCTS LIST (APL)				
Last Updated: September 20, 2019				
MATERIAL DESCRIPTION	APPROVED MANUFACTURER	PERFORMANCE SPECIFICATION AND/OR MODEL	ITEMS SELECTED	
100 SERIES – GENERAL				
101 MANHOLES AND APPURTENANCES				
101.1 PRECAST MANHOLE BASES AND VAULTS <i>NOTE: Meets ASTM C478 and C913 AASHTO HS-20 Loading</i>	Copeland Precast	Base		
	Forterra	Base & channel poured monolithic		
	Lindsay Precast	Base & precast channel		
	Rinker	Base		
	Oldcastle / Colorado Precast	Base		
101.2 STANDARD RINGS AND COVERS <i>NOTE: Cast Iron ring and covers shall meet ASTM A126, Class B All ring and covers located in traffic shall be solid and meet AASHTO HS-20 loading</i>	Neenah (Cast Iron)	Model R-1706 (24" Ø), R-1741-D (36" Ø w/ 22" Ø offset), R-1758-C Frost Retardant (24" Ø), R-1798 (30" Ø) Slab Construction: Model R-1706-1S (24" Ø)		
	D & L Supply Co. (Cast Iron)	Slab Construction: Model A-1166 (24" Ø), A-1161 ((24" Ø, Private MH's Only)		
	12.5" Ø Composite Lid (3/4" and 1" Meters)			
	DFW Plastics	Model DFW12ACO-1WT AURORA-LID		
	Nicor	Model 13.0PAURthO - Castings/Denver – BLK		
	Trumbull	Model 4776		
	23.75" Ø Composite Lid (>1" Meters)			
	Trumbull	Model 4315 (Solid), 4316 (1-Hole), 4317 (2-Hole) Composite Frame Model 367-5623		
	101.3 WATERTIGHT RINGS AND COVERS	Neenah (Cast Iron)	Model R-6464-F, Slab Construction: Model R-6461-GH	
	101.4 LOCKABLE MANHOLE LIDS	Neenah (Cast Iron)	Model R-1926-7 with Type J-T Handle Bar Lock	
101.5 ADJUSTABLE SLOPE MANHOLE RINGS	East Jordan Iron Works	Cast Iron Manhole Sloped Risers (AASHTO HS-20 loading)		
		Adjustable HDPE (AASHTO HS-20 loading)		
102 GASKETS AND SEALS				
102.1 PIPE PENETRATION GASKETS	Trelleborg Kor-N-Seal	106-406 Series (Sanitary & Storm) & 506 Series (Storm), ASTM C923		
	Press Seal Corporation	PSX connectors, ASTM C923		
	Hamilton Kent	Tylox 3SPW push-fit connectors, ASTM C923		
	A-Lok Products	A-Lok, Z-Lok, Quik-Lok, ASTM C923		
102.2 PREFORMED FLEXIBLE JOINT SEALANTS FOR CONCRETE PIPE, MANHOLES, AND PRECAST BOX SECTIONS	Trelleborg Kor-N-Seal	750 Sealingstrip, ASTM C990		
	Hamilton Kent	Kent Seal No. 2 Butyl Rubber Sealant, ASTM C990		
	Henry Company	RN101 Ram-Nek Preformed Flexible Plastic Strips, ASTM C990		
	ConSeal Concrete Sealants	CS-202 Butyl Rubber Sealant, ASTM C990		
102.3 PREFORMED RUBBER GASKETS FOR CONCRETE MANHOLES	Trelleborg Kor-N-Seal	170 Pre-Lube Hinge ASTM C443 and ASTM C1619		
	Hamilton Kent	TSS Series Tylox SuperSeal gasket, ASTM C443 and ASTM C1619		
103 LININGS AND COATINGS				
103.1 CORROSION PROTECTIVE LININGS <i>NOTE: For new construction or re-lining non-structural applications. Surface shall be prepared in accordance with ASTM D4259 standard practice for preparation of concrete by abrasion prior to coating application. For structural repairs, please contact Aurora Water Engineering for minimum cementitious base thickness requirements.</i>	EPOXY BASED			
	Raven Lining Systems	Raven 405, minimum thickness shall be 80 mils		
	Tnemec Company	Perma-Glaze Series 435, minimum thickness shall be 80 mils		
	Environmental Coatings	Sewer Shield 150-Sprayable, minimum thickness shall be 80 mils		
	Sauereisen	SewerGard 210-Sprayable, minimum thickness shall be 60 mils		
	POLYUREATHANE BASED			
	SpectraShield	TLS for Wastewater Structures, minimum thickness shall be 500 mils		
	SprayRoq	SprayWall, minimum thickness shall be 500 mils		
	104 NON-SHRINK GROUT, CEMENT MORTAR, CONCRETE			
	104.1 NON-METALLIC, NON-SHRINK, AND CEMENT-BASED GROUT <i>NOTE: Minimum 28 day compressive strength 4000 psi</i>	BASF Master Builders Solutions	MasterFlow 100, ASTM C1107	
Dayton Superior		1107 Advantage Grout, ASTM C1107		
104.2 CEMENT MORTAR <i>NOTE: Minimum 28 day compressive strength 4000 psi</i>	Quikrete	Commercial Grade FastSet Repair Mortar, ASTM C928		
	US Mix	Quickset (Vert. & Over), ASTM C928		
	Sika	SikaQuick VOH, ASTM C928		
104.3 CONCRETE <i>NOTE: Minimum 28 day compressive strength 4000 psi</i>	Sakrete	High Strength Concrete Mix, ASTM C387		
	Quikrete	Concrete Mix 1101, ASTM C387		
105 CASING SPACERS AND SEALS				
105.1 CASING SPACERS <i>NOTE: Spacer to be provided on each side of pipe joint. Maximum spacing between spacers is eight feet along pipe barrel.</i>	CCI Pipeline Systems	CCI Stainless Steel Band Casing Spacer Model CSS12		
	The Ford Meter Box Company	Uni-flange Casing Spacers		
	Cascade Waterworks	Stainless Steel Model CCS		
	Advance Products & Systems	Stainless Steel Model SSI		
	PowerSeal Pipeline Products	4810 Type 304 (18-8) Stainless Steel		
	BWM Company	Stainless Steel Model BWM-SS		
105.2 CASING END SEALS	CCI Pipeline Systems	CCI Model ESC Pull-on		
	Cascade Waterworks	Model CCES		
	Advance Products & Systems	Model AC Pull-on OR Model AM		
	BWM Company	Model BWM-PO		
	Pipeline Seal and Insulator (PSI)	Model C (Max Casing Diameter & Length 36" / 300 LF)		

MATERIAL DESCRIPTION	APPROVED MANUFACTURER	PERFORMANCE SPECIFICATION AND/OR MODEL	ITEMS SELECTED	
106 MISCELLANEOUS				
106.1 FOAM INSULATION	DOW	Styrofoam Highload 100		
	Amoco Foam Products	Amofoam-RCY		
	Owens Corning	Foamular 400 or 404		
106.2 ELECTRONIC UTILITY MARKERS <i>NOTE:</i> Mid-range markers allowed by Inspector approval only If buried depth is greater than 8ft, proposed markers must be approved by Aurora Water Engineer or Inspector.	3M			
	Water	Blue 1252 Full-range (8ft bury depth), Mid-range 1403-XR Ball (5ft bury depth)		
	Wastewater	Green 1253 Full-range (8ft bury depth), Mid-range 1404-XR Ball (5ft bury depth)		
	Storm	Purple 1248 Full-range (8ft bury depth), Mid-range 1408-XR Ball (5ft bury depth)		
200 SERIES - WATER SYSTEM				
201 PIPE AND FITTINGS				
DUCTILE IRON PIPE (DIP)				
201.1 DUCTILE IRON PIPE (DIP) <i>NOTE:</i> 16" and Smaller shall be Pressure Class 350 psi Greater than 16" up to 36" shall be Pressure Class 250psi See section 12.03.1 Thickness Class Design of Pipe for minimum nominal wall thickness (Class 52). <u>See section 204.6 V-BIO POLYETHYLENE ENCASEMENT for required corrosion protection</u>	American Ductile Iron Pipe Co.	Fastite, AWWA C151/A21.51, C150/A21.50 (4"- 36")		
	U.S. Pipe	Tyton, AWWA C151/A21.51, C150/A21.50 (4"- 36")		
	McWane / Pacific States	Tyton, AWWA C151/A21.51, C150/A21.50 (4"- 36")		
201.2 DUCTILE IRON MJ FITTINGS <i>NOTE:</i> 16" and Smaller shall be Pressure Class 350 psi Greater than 16" up to 36" shall be Pressure Class 250psi	Tyler Union	AWWA C153/ A21.53 C111/A21.11 (4-36")		
	Star Pipe Products	AWWA C153/ A21.53 C111/A21.11 (4-36")		
	Serampore Industries (SIP)	AWWA C153/ A21.53 C111/A21.11 (4-36")		
	Sigma	AWWA C153/ A21.53 C111/A21.11 (4-36")		
	U.S. Pipe	AWWA C153/ A21.53 C111/A21.11 (4-36")		
201.3 DUCTILE IRON RESTRAINED JOINT PIPE & RESTRAINTS <i>NOTE:</i> 16" and Smaller shall be Pressure Class 350 psi Greater than 16" up to 36" shall be Pressure Class 250psi	RESTRAINED JOINT PIPE			
	U.S. Pipe	TR Flex (4"-36") and Field Lok 350 (4"-24")		
	JOINT RESTRAINTS			
	EBAA Iron	Megalug Series 1700, ASTM A536 (4"- 36")		
	Star Pipe	Stargrip Series 3100P and 3100S, ASTM A536 (4-36")		
	Romac Industries	RomaGrip, ASTM A536 (4"-36")		
	MECHANICAL JOINT RESTRAINTS			
	EBAA Iron	Megalug Series 1100, ASTM A536 (4"- 36")		
	Ford	Uni-Flange Series 1400, ASTM A536 (4"- 36")		
	Star Pipe	Series 3000, ASTM A536 (4-36")		
	Sigma Corporation	One-Lok SLCE Series, ASTM A536 (4"- 36")		
	POLYVINYL CHLORIDE (PVC) C900 PIPE			
	201.4 POLYVINYL CHLORIDE (PVC) C900 PIPE <i>NOTE:</i> Meets NSF/ANSI 61 and Color is Blue* 16" and Smaller shall be Pressure Class 305psi DR 14 Greater than 16" shall be Pressure Class 235psi DR 18 *Color Green is required for Wastewater *Color Purple is required for Reclaimed	North American Pipe Corp. (NAPCO)	AWWA C900/C605, ASTM D1784/D3139/F477 (4"-24")	
Diamond Plastics Corporation		AWWA C900/C605, ASTM D1784/D3139/F477 (4"-12")		
JM Eagle		Blue Brute, AWWA C900/C605, ASTM D1784/D3139/F477 (4"-12")		
VinylTech / Northern Pipe		AWWA C900/C605, ASTM D1784/D3139/F477 (4"-24")		
201.5 PVC C900 RESTRAINED JOINT PIPE & RESTRAINTS <i>NOTE:</i> Meets NSF/ANSI 61 and Color is Blue* Meets AWWA C900/905, C111/A21.11, and ASTM D1784/D3139/F477 16" and Smaller shall be Pressure Class 305psi DR 14 Greater than 16" shall be Pressure Class 235psi DR 18 *Color Green is required for Wastewater *Color Purple is required for Reclaimed Fusible C900 PVC will be approved on a case by case basis by Aurora Water Engineering.	RESTRAINED JOINT PIPE			
	North American Pipe Corp. (NAPCO)	RJ/RJB Certa-Lok (4"-24")		
	JM Eagle	Eagle Loc 900 (4"-16")		
	Diamond Plastics Corporation	Lok-21 (4"-24")		
	JOINT RESTRAINTS			
	EBAA Iron	Series 1500, ASTM A536 (4"-12")		
	Ford	Uni-Flange Restraint 1390-C-x-Q-U/I (4"-12")		
	Star Pipe	Series 1100 ASTM A536 (4"-36")		
	Sigma Corporation	PV-Lok Model D-PWP, ASTM A536 (4"-36")		
	MECHANICAL JOINT RESTRAINTS			
	EBAA Iron	Series 2000PV, ASTM A536 (4"- 36")		
	Ford	Uni-Flange Series 1500, ASTM A536 (4"- 36")		
	Star Pipe	Series 4000, ASTM A536 (4-36")		
Sigma Corporation	One-Lok SLCE Series, ASTM A536 (4"- 36")			
STEEL PIPE				
201.6 BOLTED COUPLINGS FOR STEEL PIPE <i>NOTE:</i> Meets AWWA C111, C200, 203, 205, 206, 208, 219 and AWWA Manual M11.	Trupply	Style 38 Coupling (4"-36")		
	Romac Industries	Styles XR501, 501 & Alpha (4"-24")		
	Smith-Blair	Model 411 Coupling (4"-36")		
	JCM Industries	200 Series Coupling (4"-36")		

MATERIAL DESCRIPTION	APPROVED MANUFACTURER	PERFORMANCE SPECIFICATION AND/OR MODEL	ITEMS SELECTED
202 VALVES			
202.1 TAPPING VALVES (Resilient Wedge, FL/MJ) NOTE: Ductile Iron per ASTM A536 Meets AWWA C509 / C515 Minimum Rated 250 PSI Full Port, Open RT	American AVK	Model 45 (4"-12")	
	American Flow Control	Model 2500 (4"-12")	
	Mueller Co.	Model 2361 (4"-12")	
	Kennedy	Model KS-FW 8950SS (4"-12")	
	Crispin	(4"-12")	
	Clow Valve Co.	Model 2639 F-6114 (4"-12")	
202.2 GATE VALVES (Resilient Wedge, MJ/MJ) NOTE: Ductile Iron per ASTM A536 Meets AWWA C509 / C515 Minimum Rated 250 PSI Full Port, Open RT	American AVK	Model 45 (4"-16")	
	American Flow Control	Model 2500 (4-12")	
	Mueller Co.	Model 2361 (4"-12")	
	Kennedy	Model KS-FW 8571SS (4"-12")	
	Crispin	(4"-16")	
	Clow Valve Co.	Model 2639 F-6100 (4"-12")	
202.3 DOUBLE-DISC GATE VALVES NOTE: Ductile Iron per ASTM A536 or Cast Iron per ASTM A126, Class B Meets AWWA C500 Minimum Rated 200 PSI Full Port, Open RT	Clow Valve Co.	Model F-5065(4-12")	
	Kennedy	Model F-5065 (4"-12")	
	Crispin/K-Flow Valves	(4"-12")	
202.4 BUTTERFLY VALVES (BFV) NOTE: Ductile Iron per ASTM A536 Stainless Steel Shaft Meets AWWA C504 Class 250B Minimum Rated 250 PSI Full Port, Open RT	Henry Pratt Co.	HP250II (16"-36")	
	Clow Valve Co.	Series 1450, 4500 (16"-36")	
	Mueller Co.	Lineal XPII Class (16"-36")	
	Valmatic	Series 2300 (16"-36")	
	Crispin/K-Flow Valves	Series 47 (24"-36")	
	DeZurick	Model BAW (16"-36"), Model BOS-US Resilient Seated (16" Only)	
202.5 AIR & VACUUM RELEASE VALVES NOTE: Meets AWWA C512		Apco	
		Valmatic	
		ARI	
		Crispin Valves (C series & AL series)	
		Vent-O-Mat	
202.6 PRESSURE REDUCTION VALVES (PRV) NOTE: Ductile Iron per ASTM A536 Meets AWWA C530 Minimum Rated 250 PSI Full Port, PRV Size to be specified on Civil Plans	Cla-Val Co.	Model 90-01 w/ 100-01 Hytrol Main Valve (FL/FL, Globe, 4"-36")	
202.7 CHECK VALVES NOTE: Distribution system requires cushion check valves; on services, swing check valves are acceptable. Meets AWWA C508 Minimum Rated 250 PSI (System) 175 PSI (Services)	Cla-Val Co.	Distribution System Only: Model 81-02 w/ 100-01 Hytrol Main Valve (FL/FL, Globe, 4"-24") Services Only: Series 584 Flex-Check Valve (FL/FL 2"-12")	
	VAG USA / GA Industries	Services Only: Model 200-D (FL/FL 2"-12")	
	American Flow Control	Distribution System and Services: Series 2100 (FL/FL 2"-16") Services Only: Swing Gravity Series 600 and 52-SC (FL/FL 4"-12")	
	Mueller Co.	Distribution System and Services: Model 851A (FL/FL 2"-24") Services Only: Swing Gravity Model A-2600-6-02BB (FL/FL 2"-12")	
202.8 VALVE BOXES WITH DROP LID NOTE: Cast Iron per ASTM A48 Class 35 Meets HS-20 Traffic Loading Installed per AWWA M44	Tyler Union	Model 6850, 6860 with #6 Base	
	East Jordan Iron Works	Model 8550, 8560	
	Castings	Model 6860	
	Star Pipe	Model VB-0002.VB-0006	
	Sigma	Model VB261, VB630	
202.9 VALVE BOX ADAPTORS	Adaptor	Valve Box Adaptor II	
202.10 EXTENDED OPERATORS	Limitorque	21" radius, for manual & motorized valve control	
	MDT	21" radius, for manual & motorized valve control	
	Valmatic	21" radius, for manual & motorized valve control	
	EIM	21" radius, for manual & motorized valve control	
	Rotork	21" radius, for manual & motorized valve control	
	DeZurick	21" radius, for manual & motorized valve control	

MATERIAL DESCRIPTION	APPROVED MANUFACTURER	PERFORMANCE SPECIFICATION AND/OR MODEL	ITEMS SELECTED
203 WATER SERVICES			
203.1 TAPPING SADDLES (6"-12" X ¾"-2") <i>NOTE:</i> Meets AWWA C800	A.Y. McDonald	Model 3825 (DIP, AC, CI), 3805 (PVC)	
	Ford	Model 202B (DIP, AC), S90 Style B (PVC)	
	Mueller Co.	Model BR2B (DIP, AC, CI), H-13000/OD Series (PVC)	
	PowerSeal	Model 3407 (DIP, AC, CI, PVC)	
203.2 CTS CORPORATION STOPS (¾" TO 2") <i>NOTE:</i> Meets AWWA C800 AWWA Taper Inlet x Conductive Compression (CC) Connection with stainless steel retainer ring and positive stop.	A.Y. McDonald	Model 74101BQ	
	Ford	Model FB1000-XX-Q-NL	
	Mueller Co.	Model B2500810N	
203.3 CTS CURB STOPS (¾" TO 2") <i>NOTE:</i> Meets AWWA C800 CC X CC connection with stainless steel retainer ring and positive stop.	A.Y. McDonald	Model 76100Q	
	Ford	Model B44-XXX-Q-NL	
	Mueller Co.	Model B-25209N	
203.6 CURB STOP BOXES <i>NOTE:</i> Meets AWWA C800 Cast Iron per ASTM A48, Class 2	A.Y. McDonald	Model 5614 (¾" / 1"), 5615 (1 ½" / 2")	
	Ford	Model EM2-50-56 (¾" / 1"), EM2-50-57 (1 ½" / 2")	
	Mueller Co.	Model H-10300 (¾" / 1"), H-10300-990002 (1 ½" / 2")	
	Tyler Union	Model Box # 95E (¾"to 1 ½"), Enlarged Base (2")	
203.8 CTS SERVICE LINE COUPLINGS (¾" TO 2") <i>NOTE:</i> Meets AWWA C800 CC X CC connection with stainless steel retainer ring and positive stop.	A.Y. McDonald	Model 74758Q	
	Ford	Model C44-XX-Q-NL	
	Mueller	Model H15403N	
203.9 CTS STOP AND WASTE VALVES (¾" TO 2")	A.Y. McDonald	Model 76000Q	
	Ford	Model B44-XXXSW-Q-NL (1 ½" and 2" Only)	
	Mueller	Model B25219N	
203.10 CTS METER SETTERS – (¾" TO 2") <i>NOTE:</i> Meets AWWA C800 CC X CC connection with stainless steel retainer ring and positive stop.	A.Y. McDonald	Model 731-2--WDQQ 33 (5/8" x 3/4") Model 731-3--WDQQ 33 (3/4" x 3/4") Model 731-4--WDQQ 44 (1" x 1") Model 721B612WWQQ 665 (1 ½" x 1½") Model 721B712WWQQ 775 (2" x 2")	
	Ford	Model VBHH72-12W-44-33-Q-NL (5/8" x 3/4") Model VBHH73-12W-44-33-Q-NL (3/4" x 3/4") Model VBHH74-12W-44-44-Q-NL (1" x 1")	
	Mueller	Model B-2474-2N (5/8", 3/4", 1")	
204 CORROSION PROTECTON			
204.1 POST MOUNTED TEST STATIONS	Farwest Corrosion Control Co.	Testox CP Test Stations by Gerome Series 700 Pipe Mounted Test Station (1 ¼" Threaded)	
204.2 SPRAY PRIMER	Farwest Corrosion Control Co.	Royston Roybond 747	
204.3 WELD CAPS <i>Meets AWWA C-209</i>	Farwest Corrosion Control Co.	Royston Handy Cap IP	
	Farwest Corrosion Control Co.	Tapecoat H35 Gray Tape	
	Canusa-CPS	Melt stick (MS)	
	Canusa-CPS	Coating Repair Patch (CRP)	
204.4 HEAT SHRINK SLEEVES	Canusa-CPS	Model GTS-HT (High Temperature Corrosion Protection and Mechanical Resistance), GTS-PP-65 (Mechanical Resistance Only)	
204.5 STEEL PIPE COATINGS <i>Meets ASTM G 95</i>	IrataneFutura (ITW)	Protec II	
	LifeLast	Durashield DS310-61	
	Trenton	Primer and Wax Tape	
	Denso	Primer and Wax Tape	
204.6 V-BIO POLYETHYLENE ENCASEMENT <i>Meets ANSI/AWWA C105/A21.50 Minimum Thickness is 8 Mil</i>	American Ductile Iron Pipe Co.	V-BIO Polywrap	
	U.S. Pipe	V-BIO Polywrap	
	McWane / Pacific States	V-BIO Polywrap	

MATERIAL DESCRIPTION	APPROVED MANUFACTURER	PERFORMANCE SPECIFICATION AND/OR MODEL	ITEMS SELECTED	
204.7 POLYVINYL CHLORIDE TAPE	Farwest Corrosion Control Co.	Polyken #900		
	3M Company	Scotchwrap Tape #50		
205 OTHER				
205.1 FIRE HYDRANTS (5 1/4" MAIN VALVE) <i>NOTE:</i> <i>Color is Safety Yellow</i> <i>Ductile Iron per ASTM A536 / C151</i> <i>Meets AWWA C502 / C550</i> <i>Minimum Rated 250 PSI</i>	Mueller Co.	Model A-403 Centurion 350		
	American Flow Control	Model Waterous Pacer WB67-250		
	Clow Valve Co.	Model Admiral Hydrant 350		
205.2 AUTOMATIC FLUSHING DEVICE (2") <i>NOTE:</i> <i>Minimum Rated 150 PSI</i>	Kupferle	Model Eclipse #9800 (Cold Climate)		
205.3 SAMPLING STATION	Kupferle	Model MainGuard #66 (Cold Climate)		
205.4 FOSTER ADAPTOR <i>NOTE:</i> <i>Meets AWWA C111 and C153</i>	Infact	MJ X MJ Restraint Adaptor (4-24")		
	Star Pipe	Series 100 MJ x MJ Restraint Adaptor (4-12")		
205.5 SWIVEL Adapters <i>NOTE:</i> <i>Meets AWWA C111 and C153</i>	Tyler Union	Swivel Adapter		
	Sigma	Swivel Adapter		
	Star Pipe	Swivel Adapter		
205.6 METER PITS (3/4" / 1") <i>NOTE:</i> <i>Concrete meter pits shall meet ASTM A48</i>	Oldcastle Enclosure Solutions	Model 00241001-0024-48 B-Body B-W 2MSHL (24" Ø Plastic)		
	Forterra	24" I.D. Concrete, sections must be provided in 1 ft sections.		
205.7 DOUBLE CHECK DETECTOR ASSEMBLIES <i>NOTE:</i> <i>Meets AWWA C510 and C515</i> <i>Approved by UL & FM</i> <i>Outside stem and yoke (OS&Y) resilient seated gate valves</i> <i>Minimum Rated 175 PSI</i>	Zum / Wilkins	Model 350DA (4"-10")		
	Watts Regulatory Co.	Model 774 DCDA-OSY (4"-10")		
	FEBCO	Model MasterSeries LF876V (4"-10")		
	Ames Fire & Waterworks	Model Colt C300, Model 3000SS (4"-10")		
	2" DOUBLE CHECK DETECTOR ASSEMBLIES			
	Watts Regulatory Co.	Model 007M1DCDA		
205.8 PIPE CLAMPS	National Pipe Hanger	Heavy Duty Two-Bolt Pipe Clamp (Stainless Steel or Electro-Galvanized Carbon Steel)		
	PHD Manufacturing	4-Bolt Underground Pipe Clamp Part #590 (Electro-Galvanized)		
205.8 PIPE CLAMPS	A.Y. McDonald	Model 40MJ07PVC		
	Ford	Model IDLER-X-NL		
	Mueller Co.	Model H-10887		
300 SERIES - SANITARY SEWER SYSTEM				
301 PIPE				
301.1 POLYVINYL CHLORIDE (PVC) PIPE <i>NOTE:</i> <i>Meets ASTM D3034-SDR35 (4"-15")</i> <i>ASTM F679 (18"-27")</i> SDR 35 for Depths < 15' SDR 26 for Depths >15' and <20' C900 for Depths >20' Force Mains will be reviewed on a case-by-case basis by Aurora Water Engineering.	North American Pipe Corp. (NAPCO)			
	Diamond Plastics Corporation			
	JM Eagle			
	VinylTech / Northern Pipe			
301.2 STRUCTURE MARKERS	JS Contractor Supply Item No: UFP-TYPE 2 CRY5 (72" Yellow post with white sheeting)			
400 SERIES - STORM SEWER				
401 PIPE				
401.1 RCP / CBC <i>NOTE:</i> <i>Meets AASHTO M170, M242</i> <i>ASTM C76, C655 or C361, ACI 318</i> Force Mains will be reviewed on a case-by-case basis by Aurora Water Engineering.	REINFORCED CONCRETE PIPE (RCP) / CONCRETE BOX CULVERT (CBC)			
	Lindsay Precast (CBC)			
	Forterra (RCP/CBC)			
	Rinker (RCP/CBC)			
	Oldcastle / Colorado Precast (RCP/CBC)			

All rubber gaskets and seal material shall be made of SBR (Styrene Butadiene Rubber) or EPDM (Ethylene Propylene Diene Monomer) Rubber, including PVC and DIP pipe joint gaskets.

All components in contact with potable water shall conform to NSF/ANSI 61 and NSF/ANSI 372, AWWA C800 and ASTM B584, UNS C89833 (latest revision)

PROCEDURE FOR PRODUCT APPROVAL

1. Contractors, suppliers and manufacturers desiring to submit products for approval and inclusion in these Standards shall submit materials detailed below to the Aurora Water Warehouse at 13645 E. Ellsworth Ave., Aurora CO. 80012. Contractors, suppliers and manufactures wishing to visit warehouse supervisor in person shall first request an appointment by calling (303) 326-8500.
2. The City will complete its review within 90 days. Contractors, suppliers and manufacturers desiring to appeal the decision of the review committee shall submit an appeal to the Manager of Aurora Water Engineering within 30 days after the final decision by the review committee.
3. Aurora Water shall review the appeal and render a decision within 30 days. The decision of the Director will be final.
4. Contractors, suppliers and manufacturers desiring to submit materials for approval and inclusion in these Standards shall submit the following minimum information:
 - a Manufacturer's standard drawings, schematics and diagrams:
 - i Description of the material or equipment for which the supplier or manufacturer desires to be considered.
 - ii Delete information not applicable to the submittal.
 - iii Supplement standard information to provide information specifically applicable to the material or equipment.
 - iv Detailed operation and maintenance and disassembly information for maintenance if applicable.
 - v Applicable standards, such as ASTM or Federal Specification numbers.
 - vi Manufacturer's name, type and model number of equipment.
 - vii Drawings, catalogs or parts thereof, manufacturer's specifications and data, instructions, performance characteristics and capacities, and other information specified or necessary.
 - viii Parts, devices, controls and accessories forming a part of equipment.
 - ix Descriptive literature for paint and coating systems.
 - x Description of where parts may be ordered and anticipated time for delivery of parts.

- b Manufacturer's warranties.
- c Format.
 - i Present in a clear and thorough manner.
 - ii Minimum sheet size: 8 1/2"x11".
 - iii Clearly mark each copy to identify pertinent products and models.
 - iv Individually annotate standard drawings which are furnished, cross out items that do not apply, describe exactly which parts of the drawing apply to the equipment being considered.
 - v Individually annotate catalog sheets to identify applicable items.
 - vi Clearly identify the Supplier and Manufacturer along with addresses, telephone number and person to contact for additional information.