

THE METROPOLITAN DISTRICT APPROVED MATERIALS

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SANITARY SEWER & STORM DRAIN INSTALLATIONS

PRODUCT		CLASS/MODEL	SPEC SECTION
SDR-35 PVC GRAVITY SEWER PIPE (6" - 15")	Diamond IPEX (Ipex USA) National Pipe Westlake Pipe & Fittings (formerly NAPCO) Royal Pipe Systems JM Eagle	ASTM D3034 Type PSM; ASTM F679 Type PS-46 ASTM D3034 Type PSM (Ring-Tite) ASTM 1760 (Enviro-Tite) ASTM D3034 Type PSM; ASTM F679 Type PS-46 ASTM D3034 Type PSM; ASTM F679 Type PS-46 ASTM D3034 Type PSM; ASTM F679 Type PS-46 ASTM D3034 Type PSM; ASTM F679 Type PS-46	02622
PVC GRAVITY SEWER PIPE (18" - 24")	Diamond IPEX (Ipex USA) National Pipe Westlake Pipe & Fittings (formerly NAPCO) Royal Pipe Systems JM Eagle	ASTM F679, Type PS-46 ASTM F679, Type PS-46 Ring-Tite ASTM F679, Type PS-46 ASTM F679, Type PS-46 ASTM F679, Type PS-46 ASTM F679, Type PS-46	02622
PVC CLOSED PROFILE GRAVITY SEWER PIPE (30" - 48")	Diamond Vylon (Duraline, Prime Conduit) JM Eagle	ASTM F1803, F794, Type PS-46 ASTM F1803, F794, Type PS-46 ASTM F949/F794 & AASHTO M304, PS-46	02622
C900 PVC PRESSURE SEWER PIPE (6" - 12")	Diamond IPEX (Ipex USA) National Pipe Westlake Pipe & Fittings (formerly NAPCO) Royal Pipe Systems JM Eagle	ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, AWWA DR 18	N/A
C905 PVC PRESSURE SEWER PIPE (18" and 24")	Diamond IPEX (Ipex USA) National Pipe Westlake Pipe & Fittings (formerly NAPCO) Royal Pipe Systems JM Eagle	ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, SDR-18 ASTM D1784, AWWA DR 18	N/A
HIGH DENSITY POLYETHYLENE PIPE Fusion Welded, Solid Wall	KWH National Pipe Performance Pipe JM Eagle	ASTM F714, AWWA C906, PE 3408/4710 ASTM F714, AWWA C906, PE 3408/4710 ASTM F714, AWWA C906, PE 3408/4710 ASTM F714, AWWA C901/906, PE 4710	N/A
DUCTILE IRON SEWER PIPE (Class 52)	ACIPCO McWane Ductile U.S. Pipe	ASTM A-746, Protecto 401 ASTM A-746, Protecto 401 ASTM A-746, Protecto 401	02615
PRESTRESSED CONCRETE CYLINDER PRESSURE PIPE	Forterra Vianini	AWWA C-301 AWWA C-301	N/A
REINFORCED CONCRETE SEWER PIPE	Concrete Systems, Inc. Vianini United Concrete Products, Inc.	ASTM C-76, Class IV or V AWWA C-300 ASTM C-76, Class IV or V	02612
STORM DRAIN PIPE	ADS/Hancor Con-Tech Lane United Concrete Products, Inc.	AASHTO M252 and M294, HDPE Type S, N-12 AASHTO M252 and M294, HDPE Type S AASHTOM252 and M294, HDPE Type S ASTM C-76, Class IV or V	N/A

PRODUCT		CLASS/MODEL	SPEC SECTION
PRECAST MANHOLE CONNECTIONS	A-Lok Products, Inc. NPC Inc. (Trelleborg)	X-Cel Connector; ASTM C-923 Kor-N-Seal Connector; ASTM C-923	02605
EXISTING MANHOLE CONNECTIONS	A-Lok Products, Inc. NPC Inc. (Trelleborg) Fernco Press-Seal Corporation	Water Stop w/ SS Clamp Kor-N-Seal Connector LDCMA WS Waterstop	
MANHOLE MONOLITHIC LINING SYSTEM	The Strong Company IPA Systems, Inc. AP/M Perma Form Quadex, Inc.	Strong-Seal MS-2C Octrocrete Permcas Quadex QM-1s Restore	02768
MANHOLE INTERNAL CHIMNEY LINING	Sealing Systems, Inc. Primeline Products, Inc. Sani-Tred	Flex-Seal Primeliner Permaflex	02769
PRECAST SEWER CHIMNEY	Arrow Concrete Superior Products United Concrete Products, Inc.		N/A
PRECAST STRUCTURES	Arrow Concrete Concrete Systems, Inc. Connecticut Precast Cromwell Concrete Oldcastle Precast, Inc. (Rotundo) United Concrete Products, Inc.	ASTM C-478 and C-443 ASTM C-478 and C-443 ASTM C-478 and C-443 ASTM C-478 and C-443 ASTM C-478 and C-443 ASTM C-478 and C-443	N/A
SEWER BRICK SS or SM for inverts MS for manhole frame adjustment	Cromwell Concrete Products, Inc. K.F. Brick, Inc. McAvoy Vitrified Brick Co. Stiles & Hart Brick Company Watson town Brick Company	Concrete Building Brick (not for inverts or water tables), 2-1/4 x 3-3/8, x 7-5/8 ASTM C-139-05, Grade P-II Red Pavers , ASTM C-32, Grade SM or SS 2-1/4 Cob Set Sewer Brick, ASTM C-32, Grade SS Solid Brick with S&H Frog, ASTM C-32, Grade SM Luzerne Pavers, ASTM-C32, Grade SS, SM or MS	N/A
STORM SEPARATION UNITS	ConTech Stormceptor (Rinker) Stormwaterworks Hydroworks StormTrap	Vortechs and/or VortSentry Inline Stormceptor and/or Inlet Stormceptor Terre Kleen Hydrodynamic Separator Hydroguard StormSettler	N/A
KITCHEN FATS, OIL & GREASE SEPARATION UNITS	Arrow Concrete United Concrete Products, Inc.		N/A
BACKWATER VALVES: INTERIOR	Oatey Plumbest IPS Corporation BWV3P or BWV4P	4" PVC Backwater Valve, Product No. 43904 Extension Kit for 4" BWV, Part No. B04-403 8" Schedule 40 PVC Riser Pipe by Contractor 8" Cast Iron Lid, Part No. B04-008 4" PVC BWV with Extension Kit, No. B04-400K	N/A
BACKWATER VALVES: EXTERIOR	Clean Check (Rector Seal) Sioux Chief Or Approved Equal	6" PVC Extendable BWV, Catalog No. 94136 Contractor add Schedule 40 PVC 6" Insert Pipe, 8" Riser Pipe, Female Adaptor and Threaded Plug at surface	N/A
SUMP PUMP ASSEMBLY, EJECTOR PUMP, MACERATOR TOILET FIXTURE	Liberty Pumps Zoeller Saniflo Or Approved Equal	Model 451 (pump), 441 (pump), SP1822(pit), SC18 (Cover), P382LE51 (Ejector) Model 98 (pump) Saniplus Part 002 (1/2HP), 005, 083 or 087, 002	N/A
TRAP HOOD	Best Management Products, Inc. Campbell Foundry Neenah Foundry East Jordan Iron Works	Snout Oil - Debris Hood	

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WATER MAIN INSTALLATIONS

PRODUCT	MANUFACTURER	CLASS/MODEL	SPEC SECTION
DUCTILE IRON PIPE Double cement lined	ACIPCO McWane Ductile U.S. Pipe	AWWA C151, Class 54, Push On/MJ PIPE AWWA C151, Class 54, Push On/MJ PIPE AWWA C151, Class 54, Push On/MJ PIPE	02651
RESTRAINED JOINT PIPE Double cement lined	ACIPCO McWane Ductile U.S. Pipe	AWWA C151, Class 54, Flex Ring Joint AWWA C151, Class 54, TR Flex® AWWA C151, Class 54, TR Flex®	02651
PRESTRESSED CONCRETE CYLINDER PRESSURE PIPE	Forterra Vianini	AWWA C-301 AWWA C-301	N/A
DUCTILE IRON MJ FITTINGS Double cement lined	ACIPCO Star Pipe Products Tyler Union (McWane) U.S. Pipe Infact Corporation	AWWA C153, CL350, AWWA C110, CL250 AWWA C153, CL350, AWWA C110, CL250 AWWA C153, CL350, AWWA C110, CL250 AWWA C153, CL350, AWWA C110, CL250 Foster Adapter	02651
BOLTED COUPLINGS <i>Domestic Only</i> Epoxy or nylon coated DI body with stainless steel nuts and bolts	Dresser Pipeline Solutions Ford Meter Box Co. JCM Industries Mueller Co. Powerseal Pipeline Products Romac Smith Blair Hymax	Style 38 Style FC Series No. 210 and No. 212 Bolt on couplings Model 3501 Model 501 No. 441 (2"-16"); No. 411 (18" and larger); No. 461 (transition) Hymax 2 Coupling	N/A
JOINT RESTRAINT	EBBA Iron Sales, Inc. Ford Meter Box Co. Star Pipe Products	Megalug Series 1100 (MJ); Series 1700 (push-on); Series 1100HD (bell joints) Uni-Flange Series 1400 (MJ); Series 1450 (push-on); Style 1390-C (bell joints, 4-inch thru 12-inch) Stargrip Series 3000 (MJ); Series 3100P (push-on)	02651
Only locking type push on gaskets approved by the pipe manufacturer will be approved	McWane ACIPCO US Pipe	Sure Stop 350 Gasket (push on) Fast-Grip Gasket (push on) Field Lok 350 Gasket (push on)	
TAPPING SLEEVES <i>Domestic Only</i> All stainless steel with stainless steel nuts and bolts including stainless steel MJ flange outlet Only Dresser Pipeline Solutions brand Triple Tap MJ is approved for size on size taps	Ford Meter Box Co. JCM Industries Mueller Co. Powerseal Pipeline Products Romac Smith Blair Dresser Pipeline Solutions	Style FTSS MJ Model 439, 459 H-304MJ Model 3490MJ Model SSTIII-MJ Model 665MJ Triple Tap MJ	02656
GATE VALVES Resilient Seat	American Flow Control AVK Valves Clow Valve (McWane) Kennedy Valve (McWane) Mueller Co. U.S. Pipe, Valve & Hydrant Div. M&H Valve (McWane)	AWWA C515, Series 2500 – Reduced Wall D.I. AWWA C509, Series 45 – Full Wall Ductile Iron AWWA C509, Series 2639/2640 – C.I. or Full D.I. AWWA C515, Series 2638 – Reduced Wall D.I. AWWA C509, Series 8571 AWWA C515, Series 7571 – Reduced Wall D.I. AWWA C509, Series 2360 – Cast Iron AWWA C515, Series 2361 – Reduced Wall D.I. AWWA C509, Series 2362 – Ductile Iron AWWA C509, Series A-USPO – Cast Iron AWWA C515, Series A-USPI – Red. Wall D.I. AWWA C509, Style 4067	02642 and 02656

PRODUCT	MANUFACTURER	CLASS/MODEL	SPEC SECTION
BUTTERFLY VALVES	Clow Valve (McWane) Kennedy Valve (McWane) Mueller Co. Henry Pratt Co. M&H Valve (McWane)	AWWA C504, Style 4500 or Style 1450 AWWA C504, Style 4500 or Style 1450 AWWA C504, Lineseal III 150B, Lineseal XPII 250B AWWA C504, Groundhog AWWA C504	02644
GATE BOXES DWYER STYLE	Bibby-Ste-Croix (McWane) Bingham & Taylor EJ USA, Inc.	ASTM A48, MDC "Dwyer" Style, cover 8-3/8" or 6-3/8" and must read "water" ASTM A48, MDC "Dwyer" Style, cover 8-3/8" or 6-3/8" and must read "water" ASTM A48, MDC "Dwyer" Style, cover 8-3/8" or 6-3/8" and must read "water"	02642
GATE BOXES 5-1/4 INCH 2 PIECE SLIDING TYPE ADJUSTABLE TOP FLANGE	Bibby-Ste-Croix (McWane) Bingham & Taylor Tyler Union EJ USA, Inc.	Fig. No. 5664S, Code V683, Cover must read "water" Fig. No. 4908, Size No. 5664-S, Cover must read "water" No. 7126 Slip Type , 26" top, 36" bottom, Cover must read "water" 8555 Series Slip Type, 26" top, 36" bottom, Cover must read "water"	02642
GATE BOX EXTENSIONS	Bibby-Ste-Croix (McWane) Bingham & Taylor EJ USA, Inc. Turner Co., Inc. - Not for New Construction	ASTM A48, MDC "Dwyer" Style ASTM A48, MDC "Dwyer" Style ASTM A48, MDC "Dwyer" Style Injection-molded polypropylene fiberglass riser	02642
REPAIR CLAMPS <i>Domestic Only</i> Stainless steel with epoxy or nylon coated DI lugs with stainless steel nuts and bolts	GE (Dresser Pipeline Solutions) Ford Meter Box Co. JCM Industries Mueller Co. Powerseal Pipeline Products Romac Smith Blair Dresser Pipeline solutions	Style 360 Style F Series Model 171, 172 Model 500, 510 Model 3121, 3122 Model CL1, CL2 Model 226, 227 Quick Cam Repair Clamp	N/A
HYDRANTS	American Darling Valve (American Flow) Kennedy Valve (McWane) Mueller Co.	AWWA C502 and ULFM C550, B-84-B5, open left, red with yellow bonnet, 3-way nst AWWA C502 and ULFM C550, K-81-A,D Guardian, open left, red with yellow bonnet, 3- way nst AWWA C502 and ULFM C550, A-423, Super Centurian 250, open left, red with yellow bonnet, 3-way nst	02645
PRECAST HYDRANT COLLARS	United Concrete Products, Inc.	Precast Concrete Hydrant Collar	02645
CORPORATION <i>Domestic Only</i> Corporations for chlorination and air valves to be rated 250 psi minimum. Service corporations to be plug type.	A.Y. McDonald Manufacturing Co. Ford Meter Box Co. Mueller Co. Cambridge Brass	AWWA C800 and ASTM B-62, Outlet Ball Type AWWA C800 and ASTM B-62, Outlet Ball Type AWWA C800 and ASTM B-62, Outlet Ball Type, No. B25008 or H15008 AWWA C800 and ASTM B-62, Outlet Ball Type 301NL	02657
SERVICE SADDLE <i>Domestic Only</i> Double strap service saddles with epoxy or nylon coated DI body with stainless steel straps nuts and bolts. Taps shall be CC (Mueller) thread	Smith Blair Romac Mueller Co. JCM Industries Powerseal Pipeline Products Ford Meter Box Co. Dresser Pipeline Solutions	Model 317; Model 366 w/stainless steel bands (large diameter pipe) Model 362 w/stainless steel bands (concrete cylinder pipe) Model 202NS Model DR25 Model JCM 406 Model 3417DI Model FCD202 Series T3 all stainless steel w/ stainless steel bolts	
CURB STOP <i>Domestic Only</i>	A.Y. McDonald Manufacturing Co. Ford Meter Box Co. Mueller Co. Cambridge Brass	AWWA C800 and ASTM B-62, Compression-Ball AWWA C800 and ASTM B-62, Compression-Ball AWWA C800 and ASTM B-62, Compression-Ball Type; B25209 or H15209 AWWA C800 and ASTM B-62, Compression-Ball 202NL	02657
CURB BOX or SERVICE BOX and ROD	Bibby-Ste-Croix (McWane) Clow Canada (McWane) Ford Meter Box Co. Mueller Co. Bingham & Taylor	R-150, Erie, 2-hole water lid w/35" SS rod R-150, Erie, 2-hole water lid w/35" SS rod EA Series, HS 2-hole water lid w/35" SS rod H-10314, Erie, 2-hole water lid w/35" SS rod E-100, Erie/Eclipse, 2-hole water lid w/35" SS rod	02657

PRODUCT	MANUFACTURER	CLASS/MODEL	SPEC SECTION
COPPER TUBING	Cambridge Lee Industries Cerro Howell Metal Company Mueller Co. Weiland Werke (Halstead)	ASTM B 88-96, Type "K" soft ASTM B 88-96, Type "K" soft ASTM B 88-96, Type "K" soft ASTM B 88-96, Type "K" soft ASTM B 88-96, Type "K" soft	02641 and 02657
BRASS SERVICE FITTINGS <i>Domestic Only</i>	A.Y. McDonald Manufacturing Co. Ford Meter Box Co. Mueller Co. Cambridge Brass	AWWA C800 and ASTM B-62 Compression AWWA C800 and ASTM B-62 Compression AWWA C800 and ASTM B-62 Compression AWWA C800 and ASTM B-62 Compression	02641 and 02657
PRODUCT	MANUFACTURER	CLASS/MODEL	SPEC SECTION
BACKFLOW PREVENTERS	Conbraco (Apollo) Febco Flowmatic Watts Zurn Wilkins	AWWA C510 and C511 AWWA C510 and C511 AWWA C510 and C511 AWWA C510 and C511 AWWA C510 and C511	N/A
DETECTOR CHECK VALVES	Hersey	Model EDC IV (operated by a weighted lever)	N/A
METER BOXES (Plastic - 5/8" – 1")	Ford Meter Box Co. Mueller Co. Water & Sewer Specialties		02651
METER PITS (Concrete - 1.5" - 10")	United Concrete Products, Inc. Arrow		N/A
MANHOLE CASTINGS, FRAMES & COVERS ASTM A 48/A 48M, A 536 AASHTO M 105, M 306 24-1/4" gasketed cover opening with standard 36" frame and old style 24" frame	Bibby-Ste-Croix (McWane) EJ USA, Inc. Neenah Foundry Co. Turner Co., Inc. - Not for New Construction US Foundry & Manufacturing Corp.	Class 35/35B Class 35B Gray Iron Frame with one pick notch (36" MH opening)/00220513 Class 35B Gray Iron "WATER" Cover/ 00220549 (vented); 00220525 (solid) Class 35B Gray Iron Riser Ring/00220591(1-1/2"); 00220593(1-3/4"); 00220595(2-0") Campression 41420025W01 Class 35/35B Class 35/35B Class 35B Gray Iron Frame with one pick notch (36" MH opening) and cover ("WATER")/ 135-IR (solid cover); 135-IR V (center vent hole in cover); 135-IR ORS (solid cover w/gasket seal)	02605
MANHOLE RISERS FRAMES, COVERS, & RISERS ASTM A 48/A 48M, A 536	Bibby-Ste-Croix (McWane) EJ USA, Inc. Neenah Foundry Co. Turner Co., Inc. - Not for New Construction US Foundry & Manufacturing Corp.	Class 35/35B Class 35B Gray Iron Riser Ring/00220591(1-1/2"); 00220593(1-3/4"); 00220595(2-0") Class 35/35B Injection-molded polypropylene fiberglass riser Class 35/35B	02605

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GENERAL

PRODUCT	MANUFACTURER	CLASS/MODEL	SPEC SECTION
GEOTEXTILE for PIPE INSTALLATION Non-woven Filter Fabric	Carthage Mills Contech (Propex; Synthetic Ind.) Mirafi, Inc. (TenCate) Mutual Industries, Inc. Thrace-LINQ US Fabrics ADS	FX-40HS GEOTEX 401 140N, 4 oz. NW60 140EX US 120 NW 451	02200, 02605 and 02721
GEOTEXTILE for EROSION CONTROL Woven Filter Fabric	Mutual Industries, Inc. Thrace-LINQ US Fabrics	MISF 180 Spec. GTF 180SF or GTF 190SF US 670 or US 830	02270
GEOTEXTILE for EROSION CONTROL Silt Fence	Carthage Mills Contech (Propex; Synthetic Ind.) Mirafi, Inc. (TenCate) U.S. Silt & Site Supply / Getsco	FX-11 or FX-11M 104F FW500 or FW700 DOT Series, P3611M	02270
MATTING BLANKET Excelsior Matting	American Excelsior	AMXCO Curlex Blanket	02270