

**APPROVED MANUFACTURERS' PRODUCTS FOR LINEAR WATER SYSTEMS  
AUGUST 2021**

| PRODUCT  | MATERIAL TYPE  | SPECIFICATION*  | FEATURES   | MANUFACTURER                             | CATALOGUE #/IDENTIFIER | COMMENTS  |   |
|--|--|---|--|--|------------------------|---|---|
| <b>PIPE</b>                                    |  |   |  |  |                        |   |   |
| Watermain up to and including 300mm diameter   | Ductile Iron with Polyethylene Encasement              | Class 52<br>AWWA C104<br>AWWA C111/A21.11<br>AWWA C150<br>AWWA C151<br>AWWA C105<br>ANSI A21.5  | 6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications | U.S. Pipe                                | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Canada Pipe Company ULC                  | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Atlantic States                          | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Clow Water Systems                       | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Pacific States                           | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Griffin Pipe Products                    | Tyton® Joint Pipe      |   |   |
|  |  |   |  | McWane Ductile/Canada Pipe               | TR Flex                |   |   |
|  | Ductile Iron with Zinc/Epoxy & Polyethylene Encasement | Class 52<br>AWWA C104<br>AWWA C111/A21.11<br>AWWA C150<br>AWWA C151<br>AWWA C105<br>ANSI A21.5  | 6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications | Electrosteel USA                         | Nublu                  |   | Exterior coating to be 200g/m2 + epoxy top coat coloured to match intended use. |
|  |  |   |  |  |                        |   |   |
|  |  |   |  |  |                        |   |   |
|  |  |   |  |  |                        |   |   |
|  |  |   |  |  |                        |   |   |
|  | Polyvinyl Chloride (PVC)                               | Class 150, SDR 18<br>AWWA C900<br>CSA B137.3  | Push-on Joint, Colour Coded "blue", 6.1 metres in length                         | IPEX                                     | Blue Brute             |   | Factory Capped  |
|  |  |   |  | Royal Pipe                               | CIOD PVC P.P.          |   |   |
|  |  |   |  | JM Eagle                                 | Blue Brute CSA         |   |   |
| Diamond Plastics Corp.                         |  |   |  | C900CSA                                  |                        |   |   |
| National Pipe Inc.                             |  |   |  | Dura-Blue                                |                        |   |   |
| Molecularly Oriented Polyvinyl Chloride (PVCo) | AWWA C909<br>CSA B137.3                                | Push-on Joint, Colour Coded "blue", 6.1 metres in length  | IPEX   | Bionax                                   | Factory Capped         |   |   |
| Watermain 400mm Diameter                       | Polyvinyl Chloride (PVC), DR18                         | Class 150, SDR 18<br>AWWA C905<br>CSA B137.3  | Push-on Joint, Colour Coded "blue", 6.1 metres in length                         | IPEC                                     | Centurion              |   |   |
|  |  |   |  | North American Pipe Compay (Royal Pipe)  | CIOD PVC P.P.          |   |   |
|  |  |   |  | Diamond Plastics Corp.                   | C900                   |   |   |
| Watermain 400mm diameter and larger            | Fibreglass Reinforced Pipe                             | AWWA C950<br>NSF-61<br>AWWA M45 Manual  |  | Thompson Pipe Group/Corix Water Products | Flowtite FRP Pipe      |   |   |
|  |  |   |  |  |                        |   |   |
|  |  |   |  |  |                        |   |   |
|  | Prestressed Concrete Pressure Pipe 500mm and larger    | AWWA C301<br>AWWA C304  |  | Push-on Joints (deep joints)             | Decast                 | E-301, L-301  | Mortar Collar Diaper required at all joints, performance bedding required       |
|  |  |   |  |  | Forterra               |   |   |
|  | Ductile Iron with Polyethylene Encasement              | AWWA C104<br>AWWA C115<br>AWWA C150<br>AWWA C151  | 6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications | U.S. Pipe                                | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Canada Pipe Company ULC                  | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Atlantic States                          | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Clow Water Systems                       | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Pacific States                           | Tyton® Joint Pipe      |   |   |
|  |  |   |  | Griffin Pipe Products                    | Tyton® Joint Pipe      |   |   |
|  |  |   |  | McWane Ductile/Canada Pipe               | TR Flex                |   |   |
|  | Ductile Iron with Zinc/Epoxy & Polyethylene Encasement | CLASS 250<br>AWWA C105<br>AWWA C111/A21.11<br>AWWA C150<br>AWWA C151<br>AWWA C105<br>ANSI A21.5 | 6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications | Electrosteel USA                         | Nublu                  | Exterior coating to be 200g/m2 + epoxy top coat coloured to match intended use. |   |
|  |  |   |  |  |                        |   |   |
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| <b>SERVICES</b>         |  |   |   |                               |                                     |  |
| Water Services          | Copper - 25mm to 50mm                    | AWA C800<br>ASTM B88  | Type "k", 3rd Party (W.H.) soft copper  |                               | as per manufacturer                 |  |
|                         | Cross-linked Polyethylene - 25mm to 50mm | AWWA C904<br>ASTM F876/F877<br>ASTM F2080<br>CSA B137.5<br>NSF-14<br>NSF-61 | Cross-linked polyethylene (PEX) Tubing  | Rehau                         | Municipex, Blue 904                 | Municipex valves and fittings conform with AWWA C800. C800 applies to "Underground Service Line Valves and Fittings" Appropriate Standard C904 "Cross Linked Poly Services" Suggest NSF Standard 14 and 61                           |
|                         |  |   |   | IPEX                          |                                     |  |
|                         |  |   |   | CB Supplies Limited           | CANPEX Ultra (Without Tracerwire)   |  |
|                         |  |   |   | CB Supplies Limited           | CANPEX UV PLUS (Without Tracerwire) |  |
|                         |  |   |   |                               |                                     |  |
|                         |  |   |   |                               |                                     |  |
| Corporation (Main) Stop | No Lead Alloy - 25mm to 50mm             | AWWA C800<br>NSF-61<br>ASTM B-62<br>ASTM B-584<br>NSF-372                   | Ball Valve, Compression Joint   | Cambridge Brass               | 301NL-A4HE4                         | Stainless Steel Saddles to be used on all PVC Pipe. Rockwell Type Double Solid Band Saddles for 38mm and up on DI or Cast Main. Must have a set screw for accepting tracer wire when connecting to Cross-linked Polyethylene piping. |
|                         |  |   |   |                               | 301NL-A6HE6                         |  |
|                         |  |   |   |                               | 301NL-A7HE7                         |  |
|                         |  |   |   | Ford Meter Box Company        | FB1000-4-TW-Q-NL                    |  |
|                         |  |   |   |                               | FB1000-6-TW-Q-NL                    |  |
|                         | FB1000-7-TW-Q-NL                         |   |   |                               |                                     |  |
| Curb Stop               | No Lead Alloy - 25mm to 50mm             | AWWA C800<br>NSF-61<br>ASTM B-62<br>ASTM B-584<br>NSF-372                   | Ball Valve, Compression Joint, Non-Draining   | Mueller Canada                | B-25209N                            | Set screw for accepting tracer wire on one nut (road side) required when connecting to Cross-linked Polyethylene Service Piping  |
|                         |  |   |   | Cambridge Brass               | 202NL-H4HE4                         |  |
|                         |  |   |   |                               | 202NL-H6HE6                         |  |
|                         |  |   |   | Ford Meter Box Company        | 202NL-H7HE7                         |  |
|                         |  |   |   |                               | B44-444-TW-Q-NL                     |  |
|                         |  |   |   |                               | B44-666-TW-Q-NL                     |  |
|                         | B44-777-TW-Q-NL                          |   |   |                               |                                     |  |
| Service Boxes           | Epoxy Coating Cast Iron                  | N/A   | Extension required if special depths are encountered (as per manufacturers recommendations) | Mueller Canada                | A724/A728                           |  |
|                         |  |   |   |                               | A800                                |  |
|                         |  |   |   | Clow Canada                   | D1                                  |  |
|                         |  |   |   |                               | D3                                  |  |
|                         |  |   |   | Bibby Ste Croix               | VSB1                                |  |
|                         | VSB2                                     |   |   |                               |                                     |  |
| Service Box Rods        | Stainless Steel                          | N/A   | 36" Stainless Steel, Self Centering, Brass Cotter Pin                                       | Mueller Canada                | 88036                               |  |
|                         |  |   |   | Clow Canada                   | T4-36                               |  |
| Service Saddles         | Ductile Iron Watermain (38mm to 50mm)    | AWWA C800<br>AWWA C213<br>ASTM A536<br>ASTM D2000<br>ASTM A240<br>NSF-61    | Ductile Iron, Double Strap, AWWA Tapered Threads  | Smith-Blair                   | 313                                 | Service Saddles are mandatory on all PVC Watermain   |
|                         |  |   |   | Ford Meter Box Company        | F202                                |  |
|                         |  |   |   | Robar                         | 2408                                |  |
|                         |  |   |   | Cascade                       | CSC2                                |  |
|                         |  |   |   |                               |                                     |  |
|                         | PVC Watermain (25mm to 50mm)             | NSF-61  | Type 304 Stainless Steel including hardware, Double Bolt, Broad Band, AWWA Tapered Thread   | Smith-Blair                   | 373                                 |  |
|                         |  |   |   |                               | 3742                                |  |
|                         |  |   |   | Ford Meter Box Company        | FS303DB, FS313                      |  |
|                         |  |   |   | Cambridge Brass (Teck Saddle) | Up to 400 mm Series 403DB           |  |
|                         |  |   |   | Robar                         | Up to 300mm 2616DB                  |  |
|                         | Up to 400mm 2626DB                       |   |   |                               |                                     |  |
|                         |  | Cascade   | CSC2  |                               |                                     |  |

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| <b>SERVICES CONTINUED</b> |                                |   |   |                            |                        |                 |
| Tapping Sleeves           | Ductile Iron                   | ASTM D2000<br>ASTM A3<br>AWWA C223<br>NSF-61  | Order with Stainless Steel Bolts; MJ Outlet; Epoxy Coating  | Ford Meter Box Company     | FTSS                   |                 |
|                           |                                |   |   | Robar                      | 6906                   |                 |
|                           |                                |   |   | Smith-Blair                | 622                    |                 |
|                           |                                |   |   | Mueller Canada             | H-621                  |                 |
|                           | PVC                            | AWWA C223<br>AWWA C207<br>NSF-61<br>ASTM D2000  | Stainless Steel; MJ Outlet; Full Surround Girded Gasket   | Smith-Blair                | 663                    |                 |
|                           |                                |   |   | Robar                      | 6606                   |                 |
|                           |                                |   |   | Ford Meter Box Company     | Fast Tap               |                 |
|                           |                                |   |   |                            |                        |                 |
| Couplings                 | No Lead Variety - 25mm to 50mm | AWWA C800<br>NSF-61<br>NSF-372<br>ASTM B584<br>ASTM B62   |   | Mueller Canada             | H-15403                | No Lead Variety |
|                           |                                |   |   | Ford Meter Box Company     | C44-77                 |                 |
|                           |                                |   |   | Cambridge Brass            | 119NL-B4B4             |                 |
|                           |                                |   |   |                            | 119NL-B6B6             |                 |
|                           |                                |   |   |                            | 119NL-B7B7             |                 |
| McDonald Brass            | 4758T                          |   |   |                            |                        |                 |
| Angle Meter Stops         | 25mm                           | AWWA C800<br>AWWA C700<br>ASTM B62<br>ASTM B584<br>NSF-61<br>NSF-372  | Full Port, No Handle  | Ford Meter Box Company     | BA43-444W-NL           | No Lead Variety |
|                           |                                |   |   | McDonald Brass             | 74602B-22              |                 |
|                           |                                |   |   | Cambridge Brass            | 210NL-B4T4             |                 |
|                           |                                |   |   |                            |                        |                 |
|                           | 25mm x 19mm                    | AWWA C800<br>AWWA C700<br>ASTM B62<br>ASTM B584<br>NSF-61<br>NSF-372  | Full Port, No Handle  | Ford Meter Box Company     | BA43-342W              | No Lead Variety |
|                           |                                |   |   | McDonald Brass             | 4182-059               |                 |
|                           |                                |   |   | Cambridge Brass            | 210NL-B4T3             |                 |
|                           |                                |   |   |                            |                        |                 |
| <b>FITTINGS</b>           |                                |   |   |                            |                        |                 |
| Fittings                  | Ductile Iron + PVC             | AWWA C110/A21.10<br>AWWA C153/A21.53<br>AWWA C111/A21.11<br>ASTM A536<br>NSF-61<br>NSF-372<br>AWWA C115/A21.15<br>ANSI B16.1<br>AWWA C104/A21.4 | Mechanical Joint, Ductile Iron Body and Glands cement lined seal coat to AWWA C104/A21.4  | TylerUnion/Biddy           | as per manufacturer    |                 |
|                           |                                |   |   | Sigma                      |                        |                 |
|                           |                                |   |   | Star                       |                        |                 |
|                           |                                |   |   |                            |                        |                 |
|                           |                                |   |   |                            |                        |                 |
|                           |                                |   |   |                            |                        |                 |
|                           |                                |   |   |                            |                        |                 |
|                           | Polyvinyl Chloride (PVC)       | AWWA C900<br>AWWA C907<br>AWWA C905<br>NSF-61<br>CSA 137.2 & 137.3<br>ASTM D1784<br>ASTM F477<br>ASTM D3139                                     | Push-on Joint CSA B137.2 (100mm to 200mm only). Must have integral joint restraint or be external mechanical restraint capable. | IPEX                       | Blue Brute             |                 |
|                           |                                |   |   | Royal Pipe                 | CIOD PVC P.P.          |                 |
|                           |                                |   |   | Harrington Corp            | HARCO C907             |                 |
|                           |                                |   |   | Utility Supply Corporation | RCT Flex-tite Fitting  |                 |
|                           |                                |   |   |                            |                        |                 |
|                           |                                |   |   |                            |                        |                 |
|                           |                                |   |   |                            |                        |                 |

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| <b>FITTINGS CONTINUED</b> |  |  |  |   |                        |                               |  |
| Fittings                  | All Pipe Material                                      | AWWA C219<br>AWWA C111/A21.11<br>AWWA C153/A21.53<br>ASTM F1476<br>AWWA C227   | Multi/Joint to connect different pipe materials together with similar OD ranges.   | George Fischer                            | Multi/Joint 3000 Plus  |                               |  |
|                           |  |  |  |   |                        |                               |  |
|                           |  |  |  |   |                        |                               |  |
|                           |  |  |  |   |                        |                               |  |
| Couplings                 | Ductile Iron/PVC                                       | AWWA C110/A21.10<br>AWWA C153/A21.53<br>AWWA C111/A21.11<br>ASTM A536<br>AWWA C115/A21.15<br>CSA B16.1<br>AWWA C104/A21.4  | Mechanical Joint, Ductile Iron Body and Glands cement lined seal coat to AWWA C104/A21.4   | Sigma                                     | as per manufacturer    |                               |  |
|                           |  |  |  |   |                        |                               |  |
|                           |  |  |  |   |                        |                               |  |
|                           |  |  |  |   |                        |                               |  |
|                           | Dresser Type for DI, CI, PVC and HDPE (Use Hymax Only) |  |  | Epoxy Coated                              | Robar                  | as per manufacturer           |  |
|                           |  |  |  |   | Smith-Blair            | as per manufacturer           |  |
|                           |  |  |  |   | TPS                    | HYMAX                         |  |
|                           |  |  |  |   | EBBA                   | 3800 Mega Coupling            |  |
|                           | Cast Iron/Oversized Main                               | AWA C219<br>ASTM A536<br>ASTM D2000<br>AWWA C111<br>NSF-61   |  | DI Bodies, Stainless Steel Nuts and Bolts | Robar                  | 1406                          |  |
|                           |  |  |  |   | Smith-Blair            | 441                           |  |
|                           |  |  |  |   | Dresser                | as per manufacturer           |  |
|                           |  |  |  |   | TPS                    | HYMAX 2000                    |  |
| Restraining Glands        | Ductile Iron Watermain                                 | ASTM A536<br>AWWA C111/A21.11<br>AWWA C153/A21.53<br>AWWA C110/A21.10<br>AWWA C104/A21.4<br>AWWA C150/A21.50               | Colour Code "black" for Ductile Iron Use. Tie Rods stainless steel.  | Smith-Blair                               | Cam-Lock 111           |                               |  |
|                           |  |  |  | Star                                      | Stargrip               |                               |  |
|                           |  |  |  | Ford Meter Box Company                    | Uni-Flange Series 1400 |                               |  |
|                           |  |  |  | Sigma                                     | One-Lok                |                               |  |
|                           |  |  |  | Clow                                      | TUFGrip-TGP            |                               |  |
|                           | PVC Watermain  | AWWA C110/A21.10<br>ASTM A536<br>AWWA C151/A21.51<br>AWWA C150/A21.50<br>AWWA C111/A21.11<br>AWWA C153/A21.53<br>AWWA C909 | Tie Rods Stainless Steel. The split ring restraint design shall incorporate a series of non-directional machined serrations (not "as cast") on the inside diameter to provide positive restraint, exact fit, 360 degree contact and support of the pipe wall. *If machined serrations are directional, additional safeguards must be built into casting. | Star                                      | Stargrip               |                               |  |
|                           |  |  |  | Ford Meter Box Company                    | Uni-Flange Series 1400 |                               |  |
|                           |  |  |  | Sigma                                     | One-Lok, PV-Lock       |                               |  |
|                           |  |  |  | Clow                                      | TUFGrip-TGP            |                               |  |
|                           |  |  |  | Smith-Blair                               | Cam-Lock 120           |                               |  |
|                           | PVCo Watermain   | AWWA C110/A21.10<br>ASTM A536<br>AWWA C151/A21.51<br>AWWA C150/A21.50<br>AWWA C111/A21.11<br>AWWA C153/A21.53<br>AWWA C909 | Tie Rods Stainless Steel. The split ring restraint design shall incorporate a series of non-directional machined serrations (not "as cast") on the inside diameter to provide positive restraint, exact fit, 360 degree contact and support of the pipe wall. *If machined serrations are directional, additional safeguards must be built into casting. | Sigma                                     | PV-LokPWPF             | PVCo to PVC Fitting           |  |
|                           |  |  |  |   | PV-LokPWPF             | PVCo to PVCo                  |  |
|                           |  |  |  |   | One-Lok SLC            | PVCo to Mech-Joint Fitting    |  |
|                           |  |  |  | Clow                                      | TUFGrip                | PVCo to Mech-Joint Fitting    |  |
|                           |  |  |  | Star                                      | StargripPVCo           | PVCo to PVCo                  |  |
|                           |  |  |  |   |                        |                               |  |
| Repair Clamps             | Stainless Steel  |  | All repair clamps to be supplied with stainless steel (passive 304) nuts and bolts. Tapered Gaskets.   | Total Piping Solutions                    | EZ-Maxplus             | Excluding (100mm x 19mm AWWA) |  |
|                           |  |  |  | Cambridge Brass                           | as per manufacturer    |                               |  |
|                           |  |  |  | Clow Canada                               | Series 200             |                               |  |

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| <b>VALVES</b>     |   |   |   |                     |                                     |          |
| Gate Valve        | Resilient Seated Gate Valve M.J. x M.J.   | AWWA C509<br>ASTM A536<br>AWWA C515<br>AWWA C550<br>ASTM A126<br>NSF-61                         | 52mm Square Nut, M.J. x M.J. (100mm - 600mm)<br>open counter clockwise, Resilient Seated Gate, Epoxy Coating  | Mueller Canada      | A2361-23                            |          |
|                   |   |   |   | Clow                | F-6100 (A2369/2340)                 |          |
|                   |   |   |   | Avk                 | Series 25/00                        |          |
|                   |   |   |   | Bibby Ste Croix     | as per manufacturer                 |          |
|                   |   |   |   |                     |                                     |          |
| Tapping Valve     | Resilient Seated Valves Tapping           | C509<br>ASTM A536   | Flange x M.J. 150mm to 300mm, Open Counter clockwise, 52mm Square Nut, Epoxy Coated   | Mueller Canada      | H-687                               |          |
|                   |   |   |   | Clow                | F-6114                              |          |
|                   |   |   |   | Bibby Ste Croix     | as per manufacturer                 |          |
|                   |   |   |   | Avk                 | 25/30081                            |          |
| Butterfly Valve   |   | AWWA C504<br>AWWA C516<br>NSF-61<br>NSF-372   | Greater Than or Equal To 750mm Only   | Pratt               | Groundhog                           |          |
|                   |   |   |   | Crispin Valve       | F47 Series                          |          |
|                   |   |   |   |                     |                                     |          |
| Air Release       | Air Release Valve Combination/Direct Bury | AWWA C512<br>ASTM A126 Class B<br>ASTM D429<br>AWWA C515<br>AWWA C550<br>ASTM A126<br>AWWA C606 | I.P. Thread x I.P. Thread (Ball Type) 150mm Cover   | A.R.I               | D-090-P                             |          |
|                   |   |   |   |                     | D-040-C                             |          |
|                   |   |   |   |                     | S-050-C                             |          |
|                   |   |   |   | APCO                | Model #65                           |          |
|                   |   |   |   | Clayton Valve       | 34AR-332-3/4"                       |          |
|                   |   |   |   | Bibby Ste Croix     | VB800                               |          |
| Pressure Reducing | Pressure Reducing and Check Valve         | AWWA C510<br>ASTM A216<br>ASTM A536<br>ASTM B148<br>ASTM B62<br>NSF-61                          | Flange x Flange (Note: City of Barrie to supply contractor with the appropriate pressure range)   | Clayton Valve       | 90-01                               |          |
|                   |   |   |   |                     |                                     |          |
|                   |   |   |   |                     |                                     |          |
|                   |   |   |   |                     |                                     |          |
|                   |   |   |   |                     |                                     |          |
| Check Valve       | Flexible Disc Check Valve                 | AWWA C508<br>ASTM A536, Grade 65-45-12<br>ANSI B16.1, Class 125<br>NSF-61<br>NSF-372            | Position Indicator, Backflow Actuator, Surge Inhibitor, Limit Switch  | Henry Pratt Company | RD Series Flexible Disc Check Valve |          |
|                   |   |   |   |                     |                                     |          |
|                   |   |   |   |                     |                                     |          |
|                   |   |   |   |                     |                                     |          |
| Valve Box         |   | N/A   | Guide Plate<br>Extension 300mm<br>Extension 450mm<br>Extension 600mm; Slide Style, Upper/Lower Section  | Bibby Ste Croix     | VB875                               |          |
|                   |   |   |   |                     | VB700                               |          |
|                   |   |   |   |                     | VB705                               |          |
|                   |   |   |   |                     | VB710                               |          |
|                   |   |   | Guide Plate<br>Extension 300mm<br>Extension 450mm<br>Extension 600mm; Slide Style, Upper/Lower Section<br>300mm Slide Extension<br>450mm Slide Extension<br>600mm Slide Extension<br>Paving Riser | Sigma               | VB4500                              |          |
|                   |   |   |   |                     | VB4253                              |          |
|                   |   |   |   |                     | VB4401                              |          |
|                   |   |   |   |                     | VB4400                              |          |
|                   |   |   |   |                     | VB4512                              |          |
|                   |   |   |   |                     | VB4518                              |          |
|                   | VB4524                                    |   |   |                     |                                     |          |
|                   | VBPR4400                                  |   |   |                     |                                     |          |

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| PRODUCT                           | MATERIAL TYPE  | SPECIFICATION*  | FEATURES  | MANUFACTURER                           | CATALOGUE #/IDENTIFIER    | COMMENTS  |
|-----------------------------------|--|---|---|--|---------------------------|---|
| <b>VALVES CONTINUED</b>           |  |   |   |  |                           |   |
| Valve Stem Extension              |  | N/A   | Required for additional depth over 1.7 metres; 52mm top operation c/w set screw; *contractor to supply required length  | Bibby Ste Croix                        | VB950                     |   |
|                                   |  |   |   | Concord/Daigle                         | as per manufacturer       |   |
|                                   |  |   |   | Mueller Canada                         | 218/758 (Nut)             |   |
|                                   |  |   |   |  | 29/06 (Socket)            |   |
| Backflow                          | Reduced Pressure Principal Back Flow Preventer   | AWWA C511<br>CSA B64.4  |   | Watts                                  | #909 Series               | c/w Mechanical Indicator  |
|                                   |  |   |   | Val-Matic                              | Swingflex 500             |   |
| <b>HYDRANTS</b>                   |  |   |   |  |                           |   |
| Hydrant                           |  | AWWA C502<br>ASME B16.1<br>OPSS 441<br>Can/ULC-S520-07<br>ASTM A536<br>ASTM B62<br>AWWA C502<br>AWWA C550 | 1.98 Metres (6'6") Barrel Length Chrome Yellow; Post type dry barrel compression shutoff with ball valve closing with flow; M.J. Elbow, 5" Valve Ball, 2 CSA Standard Hose Connections (2½" Nominal), 4" Storz threadless pumper connection as per NFPA 1963 and AWWA C502, Breakaway Flange, Self Draining | Clow                                   | D67M Premier              | <b>Notes:</b><br>Storz connections must be supplied by manufacturer specific to the Hydrant.<br><br>Bibby and AVK Hydrants may be installed in Private Applications Only. |
|                                   |  |   |   | Canada Valve                           | Century                   |   |
|                                   |  |   |   | AVK                                    | 2780                      |   |
|                                   |  |   |   | Bibby Ste Croix                        | Sentinel                  |   |
|                                   |  |   |   |  |                           |   |
|                                   |  |   |   |  |                           |   |
| Post/Yard Hydrant                 |  |   |   | Kupferle                               | Mainguard Model #77       |   |
|                                   |  |   |   | Mueller Canada                         | A-410                     |   |
| <b>CHAMBERS</b>                   |  |   |   |  |                           |   |
| Pressure Reducing Chamber Station | Steel - Fusion Bonded Epoxy  | ASTM A36<br>ASTM A500<br>CSA C22.1/C22.2 no. 108<br>National Electrical Code                              | Minimum plate thickness 6mm   | Engineered Fluid Inc.                  | as per manufacturer       | H-20 Vehicle Loading  |
|                                   |  |   |   |  |                           |   |
|                                   |  |   |   |  |                           |   |
| Water Chambers                    | Watertight Precast Concrete  | OPSD 1108.010   | 2 Piece Monolithic Construction   |  | as per manufacturer       | H-20 Vehicle Loading  |
| <b>CATHODIC PROTECTION</b>        |  |   |   |  |                           |   |
| Anodes                            | High Potential Magnesium Anode   | ASTM B843<br>OPSS 442   | Grade M1C Magnesium Anodes: 14.5kg  | Interprovincial Corrosion Control      | MAXMAG 17D3GG             |   |
|                                   |  |   |   | Bren Technologies                      | Magnesium Anode           |   |
| Reference Electrode               | Zinc   | ASTM B418 - Type 2  |   |  | as per manufacturer       |   |
| Test Station                      |  |   |   | Pro-Mark                               | PM-TS5                    | H-20 Vehicle Loading, Secure - Flush Mount  |
| Sacrificial Caps                  | Cathodic Protection (Nuts and Caps)  | ASTM B418 - Type 2  | 99.9% High Grade Zinc, Steel Core, Coated with Low Resistant Depolarizing Material: 175 grams   | Maple Agencies - Exothermal Industries | Protecto Caps 175P190     |   |
|                                   |  |   |   | Duratron                               | DSN0750                   |   |
|                                   |  |   |   | Bren Technologies                      | SAP CAP                   |   |
|                                   |  |   |   | Integrity Pipeline Ltd.                | Integrity Cap             |   |
| Protective Coatings               | Protective Coatings for metal fittings, polyethylene encasement for ductile iron watermain pipe and fittings, Poly-Tube with overlap | AWWA C105/A21.5<br>AWWA C217  |   | Interprovincial Corrosion Control      | PetroWrap                 |   |
|                                   |  |   |   | Denso North America                    | Denso Wrap                |   |
|                                   |  |   |   | Bren Technologies /PCS                 | PCS Petro Coating Systems |   |
| <b>METERING</b>                   |  |   |   |  |                           |   |
| Water Meter 19mm - 50mm           |  | C700-2.3m <sup>3</sup> /hr - 18.0m <sup>3</sup> /hr   | Encoder Register  | Sensus                                 | Model ECR, DR             | SRII, Omni (38mm, 50mm), Accustream   |
| Water Meter 75mm                  |  | AWWA C702<br>ANSI Class 125<br>NSF-61<br>NSF-372  | 5m <sup>3</sup> c/w Touch Pad Compound Meter Operating Range 1 1/2 to 320 GPM (0.11 to 72.6m <sup>3</sup> /h), Accuracy of 100% +/- 1.5% of Actual Thruput Flanged 3" Round Single Register to Read High and Low Flows  | Sensus                                 | 3" OMNI C2                |   |

**APPROVED MANUFACTURERS' PRODUCTS FOR LINEAR WATER SYSTEMS  
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| PRODUCT  | MATERIAL TYPE | SPECIFICATION*                                   | FEATURES   | MANUFACTURER           | CATALOGUE #/IDENTIFIER                             | COMMENTS  |
|--|---------------|--|--|------------------------|--|---|
| <b>METERING CONTINUED</b>  |               |  |  |                        |  |   |
| Water Meter 100mm  |               | AWWA C702<br>ANSI Class 125<br>NSF-61<br>NSF-372 | 5m <sup>3</sup> c/w Touch Pad Compound Meter Operating Range 1 1/2 to 320 GPM (0.11 to 72.6m <sup>3</sup> /h), Accuracy of 100% +/- 1.5% of Actual Thruput Flanged 3" Round Single Register to Read High and Low Flows | Sensus                 | 4" OMNI C2   |   |
| Water Meter 150mm  |               | AWWA C702<br>ANSI Class 125<br>NSF-61<br>NSF-372 | 5m <sup>3</sup> c/w Touch Pad Compound Meter Operating Range 1 1/2 to 320 GPM (0.11 to 72.6m <sup>3</sup> /h), Accuracy of 100% +/- 1.5% of Actual Thruput Flanged 3" Round Single Register to Read High and Low Flows | Sensus                 | 6" OMNI C2   |   |
| Meter Wire   |               | CSA Type CMG, LL3996                             | 22 Gauge 3 Conductor, Metgrey, Temperature: 60°C, Flame Rating - FT4   |                        |  |   |
| Pit Setter   | Plastic       |  | Lockable Lid   | Ford Meter Box Company | PTMBB-788-36-xx-NL<br>MC-36HH-MB-T                 | Minimum Depth 1.5m  |
| Splice Kits  |               |  |  | 3M Scotchlok           | UY2 (For Meter Wire)                               |   |
| <b>AUTOMATIC FLUSHING STATIONS</b>                               |               |  |  |                        |  |   |
| Automatic Flushing Station                                       |               |  | Lockable, with dechlorination, sampling point, 50 mm (2 inch) inlet, PVC pipe, 1.8 m (6 feet) bury depth   | Mueller Canada         | Hydro-Guard HG-4 cold climate model                |   |
| Automatic Flushing Station                                       |               |  | Lockable, with siphon dechlor system and dechlor basket, sampling point, 50 mm (2 inch) inlet, 1.8 m (6 feet) bury depth   | Kupferle               | Eclipse 9800 cold climate model                    |   |
| <b>TRACER WIRE SYSTEMS</b>                                       |               |  |  |                        |  |   |
| Tracer Wire (Open Cut Installations)                             |               |  | #12 AWG (0.0808" diameter) high strength copper clad steel conductor (HS-CCS) insulated with a 30mm, high density polyethylene (HDPE) insultaion, rated for direct burial use at 30 volts                              | Electrical Suppliers   | HF-CCS PE45  | Wire to be Colour Coded<br>Blue = Water<br>Green = Sanitary   |
|  |               |  |  | Canada Wire            | as per manufacturer                                |   |
|  |               |  |  | Phillips               | as per manufacturer                                |   |
|  |               |  |  | Maple                  | as per manufacturer                                |   |
|  |               |  |  | Pirrelli               | as per manufacturer                                |   |
|  |               |  |  | Copperhead             | as per manufacturer                                |   |
|  |               |  |  | Pro-Line               | as per manufacturer                                |   |
|  |               |  |  | DomTech                | 260TWU121BL/260TWU121GR                            |   |
| Tracer Wire (Directional Drilling and Jack & Bore Installations) |               |  | Directional Drilling/Jack & Bore Installation  | DomTech                | 260RWU121BL/260RWU121GR                            | For Water x=B, For Sanitary x=G<br>Minimum of 4 wires to be pulled  |
|  |               |  |  | Copperhead             | 845x-EHS   |   |
|  |               |  |  | Copperhead             | 1045B-EHS/1045G-EHS                                |   |
| Tracer Wire Connectors   |               | ASTM D1248<br>ASTM B910/B910M                    | Water Proof Connector  | Copperhead             | 1245B-EHS/1245G-EHS                                | To be used for all Tracer Wire Connections.   |
|  |               |  |  | Copperhead             | Low Voltage Ace Connectors (SC-PB-01)              |   |
| Test Station (above grade)                                       |               |  |  | Rhino                  | 72" RhinoDome Test Station<br>RDR72UU-TS9125-WPCLK | Post to be Colour Coded<br>Blue = Water<br>Green = Sanitary<br>Purple = Low Impact Developments<br>Post to contain warning sticker<br>Water = "Warning Water Pipeline"<br>Sanitary = "Warning Sanitary Pipe Line" |
|  |               |  |  |                        |  |   |
|  |               |  |  |                        |  |   |
|  |               |  |  |                        |  |   |
|  |               |  |  |                        |  |   |
| Test Station Locking Lid   |               |  |  | Rhino                  | DOME-TS-LOCK                                       |   |
| Hydrant Three Terminal Test Station                              |               |  | 5/8", Blue in Colour   | Copperhead             | Cobra T3 Hydrant Flange Package                    |   |
| Flushmount Test Station  |               |  | RB14B2TSW , Blue   | Copperhead             | Snake Pit Switchable Access Box, Roadway           |   |
| Anodes   | Magnesium     |  | ANO-12, Anode, Magnesium Drive   | Copperhead             | Ground Rod 12-AWG                                  | 42.5 cm (17') length and equipped with a 12AWG tail   |

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| PRODUCT               | MATERIAL TYPE        | SPECIFICATION*                  | FEATURES  | MANUFACTURER                  | CATALOGUE #/IDENTIFIER | COMMENTS                |
|-----------------------|----------------------|---------------------------------|---|-------------------------------|------------------------|-------------------------|
| <b>MISCELLANEOUS</b>  |                      |                                 |   |                               |                        |                         |
| Insulation            | Extruded Polystyrene | ASTM C578CAN<br>ULC S701 Type 4 | Styrofoam Highload 40   | Dow Chemical Canada           | as per manufacturer    | Minimum Strength 275kPa |
| Casing Spacers        | Casing End Seals     |                                 | Seal-Virgin SBR & Bands, T-304 Stainless Steel  | Cascade                       | as per manufacturer    |                         |
|                       |                      |                                 |   | PSI                           | as per manufacturer    |                         |
|                       |                      |                                 |   | Advance (APS)                 | as per manufacturer    |                         |
|                       | Casing Spacers       |                                 | Fusion Coated Steel Casing Insulators   | Cascade                       | as per manufacturer    |                         |
|                       |                      |                                 |   | PSI                           | as per manufacturer    |                         |
|                       |                      |                                 |   | Advance (APS)                 | Model SI & SSI         |                         |
| Metallic Caution Tape |                      |                                 | Mylar Marking Tape c/w Metallic Backing; Lineguard<br>Type 2 max bury of 150mm. "Caution Watermain"<br>colour code "Orange" | Lineguard Maintenance Systems | as per manufacturer    |                         |
|                       |                      |                                 |   | Health Survey Consultants     | as per manufacturer    |                         |

\*All Products are required to be certified to the newest version of the Specification.