



CUB Standard and Approved Product List

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CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST

For: **AIR RELEASE VALVES FOR WATER**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

**STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER DISTRIBUTION SYSTEM,
SECTION 03100 VALVES, BLOWOFFS AND
HYDRANTS**

DESCRIPTION: Air Release Valves, automatic, for water service. Cast Iron Body, Stainless Steel or Bronze Trim. Working pressure 0-150 psi. 3" and smaller 300 psi body - screwed (NPT) inlet. 4" and larger 250 psi. body - flanged inlet (flat, class 125 except as specified). All valves shall have threaded or flanged outlets. Inlet and orifice sizes shall be as shown or approved Engineer's design drawings. AWWA C512.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	VAL-MATIC VALVE & MFG. CO. 905 Riverside Drive Elm Hurst, IL 60126	¾ to 1 inch - Model 25-5 2 inch – Model 45
7/01/09	CRISPIN VALVE 600 Fowler Avenue Berwick, PA 18603	UL Series
7/01/09	APCO WILLAMETTE VALVE & PRIMER CORPORATION 1420 South Wright Blvd. Schaumburg, IL 60196	200 Series with stainless steel internals

NOTES:

1. Valve types other than those defined by above description may be used if required by engineered design and shown on Engineer's approved design drawings. CUB does not typically allow use of air/vacuum valves in the public water distribution system. However, should Engineer determine a particular circumstance justifies such use, its installation shall first be approved by CUB. Any use of Air Vacuum Valves in combination with Air Release Valves shall require that vent piping be acceptably installed and protected.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST

For: **BACKFLOW PREVENTION ASSEMBLIES**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES:

DESCRIPTION: Reduced Pressure Backflow Prevention Assemblies including Reduced Pressure Detector Backflow Prevention Assemblies. Units shall be in compliance with applicable provisions of AWWA C511, and shall be the appropriate manufacturer's model number as given below. Copper alloy parts (bronze and brass) shall contain not more than 16 percent zinc. Copper alloy UNS No. shall be shown on permanent external marking in addition to markings required by AWWA C511.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	APPROVED BACKFLOW PREVENTION ASSEMBLY MANUFACTURERS AND PRODUCTS ARE LISTED IN APPENDIX C - BACKFLOW / CROSS CONNECTION	

NOTES:

1. Listed assemblies are the only ones permitted for use in CUB-owned facilities. Their use where required on private property is at the discretion of that Property Owner and Owner's Engineer but must be as approved by the Tennessee Department of Environment and Conservation – Division of Water Supply (see listing of Approved Backflow Prevention Assemblies located in APPENDIX C of these Standards).
2. The manufacturer shall provide verification of approval by the University of California Foundation for Cross Connection Control and Hydraulic Research (USC, FCCC&HR)
3. Valves must be installed in the orientation (horizontal or vertical) as indicated in the Approved Backflow Prevention Assemblies listing located in APPENDIX C of these Standards.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **BALL VALVES FOR CURB STOPS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03200 WATER SERVICE ASSEMBLIES

DESCRIPTION: Valves, Ball for Curb Stops complying with AWWA C800 -Underground Service Line Valves. With inside iron pipe thread on one end and quick CTS on other end.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	FORD METER BOX CO., INC. P.O. Box 443 Wabash, IN 46992-0443	3/4-inch ⇔ B41-333Q 1-inch ⇔ B41-444Q
7/01/09	MUELLER COMPANY 500 West Eldorado Street Decatur, IL 62525	Mueller 300 Ball curb valve with Mueller 110 connection 3/4-inch ⇔ B-25172-3/4 1-inch ⇔ B-25172-1
7/01/09	A.Y. McDONALD P.O. Box 508 Dubuque, IA 52004	3/4-inch ⇔ 6102Q3/4 1-inch ⇔ 6102q1

NOTES:

1. These Ball Valves are to be furnished with inside iron pipe thread on one end and quick CTS on the other end



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: BUTYL MASTIC SEALANT

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS SECTION
04100 - MANHOLES

DESCRIPTION: Butyl mastic sealant shall meet or exceed the requirements of Federal Specification SS-S-210 (210-A), AASHTO M-198B, and ASTM C-990-91 AND be used when joining the casted frame to the precast manhole, and for all manhole adjustments, to provide a watertight seal to all components of the structure. The sealing compound shall be produced from blends of refined hydrocarbon resins and plasticizing compounds reinforced with inert mineral filler, and shall contain no solvents, irritating fumes, or obnoxious odors. The compound shall not depend on oxidizing, evaporating, or chemical action for its adhesive or cohesive strength. It shall be supplied in extruded rope form of suitable cross section and in such sizes as to seal the joint space.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	<i>Mailing Address:</i> CONCRETE SEALANTS, INC. P. O. Box 176 New Carlisle, OH 45344 <i>Physical address:</i> 9325 State Route 201 Tipp City, Ohio 45371	Product Identification: CS102B
7/01/09		
7/01/09		

NOTES:



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **CAM LOCK FITTINGS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER DISTRIBUTION SYSTEM

DESCRIPTION: Cam Lock fittings – also known as cam and groove couplings, shall adhere to MIL-C-27487 specifications to ensure interchangeability. Adapters shall be made of brass. Cam Lock dust caps may be made of either brass or polypropylene as determined by CUB. Locations and installation requirements may vary depending upon specific site conditions and shall be subject to CUB’s approval.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	PT COUPLING COMPANY P. O. Box 3909 Enid, OK 73702	2-inch Adapters - #1200120 (Brass) 2-inch Dust Caps - #1291120-20V (Brass) - #2701120-20V (Poly) See notes below
7/01/09	DIXON VALVE & COUPLING CO. 800 High Street Chestertown, MD 21620	2-inch Adapters - #200-A-BR (Brass) 2-inch Dust Caps - #200-DC-BR (Brass) - #PPH200 (Poly) See notes below

NOTES:

1. Dust Caps are not designed to be used in pressure applications.



**CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST**

For: **CAST IRON or DUCTILE IRON SPLIT-BODY TAPPING and REPAIR SLEEVES**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER LINES

DESCRIPTION: Sleeves, split body, mechanical joint, for cast iron, ductile iron pipe or cast-iron-OD PVC pipe. Working pressure: 250 psig for 4 to 12-inch; 200 psig for 16-inch. Mechanical joint with accessories furnished; glands, gaskets, bolts and nuts. Tapping Sleeves shall be provided with a 2 inch F.I.P.T. test port with brass plug. Sleeves shall be ductile iron construction meeting ASTM A536 Grade 65-45-12. Side flange seals shall be of the O-ring type of either round, oval or rectangular cross sectional shape. Sizes 4 to 24-inch must be capable of working on Class ABCD pipe diameters by changing only the MJ gasket (without changing either half of sleeve) and will permit use of plain rubber and duck-tipped gaskets for various O. D. piping sizes. Sizes 14" and larger must be specified to which class is needed. All sleeves are to include the end joint accessories and split glands necessary to assemble sleeve to pipe. Interior and exterior of sleeves shall be coated with asphaltic varnish in compliance with NSF-61. Chemical and physical properties of the ductile iron are to be in accordance with the requirements of ANSI/AWWA C110/A21.10, latest edition.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	U.S. PIPE & FOUNDRY CO. P.O. Box 10406 Birmingham, AL 35202	T-9 MJ Tapping Sleeves
7/01/09	KENNEDY VALVE 1021 East Water Street PO Box 931 Elmira, NY 14901	Split-Body Tapping Sleeves
7/01/09	AMERICAN-DARLING VALVE 1501 31st Avenue North P.O. Box 2727 Birmingham, Alabama 35202-2727	SERIES 2800 Compact DI Tapping Sleeve
7/01/09	MUELLER COMPANY 500 West Eldorado Street Decatur, IL 62525	Split-Body Tapping Sleeves Split-Body Repair Sleeves
7/01/09	DRESSER Piping Specialties 41 Fisher Avenue Bradford, PA 16701	STYLE 50 Split-Body Repair Sleeve

NOTES:

- To be used only as indicated on the drawings and as directed by CUB.
- Project submittal must include manufacturer's order data sheet that lists, among other information, the type of steel; type of nuts, bolts and washers; type of coating; class of flanges; and pressure rating of body.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: COMPACT FITTINGS FOR DUCTILE IRON PIPE

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER LINES

DESCRIPTION: Fittings, compact (or reduced wall) ductile iron and gray iron fittings for water lines in accordance with C153/A21.53. All fittings shall have markings cast on the body as required by AWWA C153 and shall be asphalt coated and cement-mortar lined with asphaltic seal coat complying with AWWA C104, or fusion-bonded epoxy coated and lined (inside and outside) complying with AWWA C116. Cement mortar lined in accordance with ANSI/AWWA C104/A21.4. Accessories (glands, bolts and rubber gaskets) shall be furnished in accordance with ANSI/AWWA C111/A21.11. Fusion-bonded epoxy must be red and shall comply with requirements of NSF 61.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	TYLER PIPE CO. P.O. Box 2027 Tyler, TX 75710	All Series; no retainer glands
7/01/09	GRIFFIN PIPE PRODUCTS CO 2601 Ninth Ave Council Bluffs, IA 51501	All Series
7/01/09	U.S. PIPE AND FOUNDRY CO. P.O. Box 10406 Birmingham, AL 35202	All Series TRIM TYTE
7/01/09	UNION FOUNDRY CO./DIVISION OF McWANE P.O. Box 309 Anniston, AL 36202	All Series
7/01/09	AMERICAN FLOW CONTROL P.O. Box 2727 Birmingham, AL 35202-2727	4" – 12"
7/01/09	INFACT CORPORATION 7555 Caney Fork Road Fairview, TX 37062	Foster Adaptor, Flex T-2 and Flex T-3 (Use nuts recommended by manufacturer)

NOTES:

1. Joints shall be push-on, gasketed using TYTON or FIELD-LOK gaskets.
2. The use of mechanical joint set screw-type retainer glands shall not be allowed on any reduced wall fitting.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **CONCRETE MANHOLE SECTIONS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

**STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS SECTION
04100 - MANHOLES**

DESCRIPTION: Pre-cast concrete manhole sections consisting of risers, conical tops, flat slab tops, and base sections. Base sections shall consist of a riser section monolithically cast with an integral floor. Base riser sections must have approved connectors. Joint configuration and dimensions for 48" diameter sections shall be as shown on CUB STANDARD DETAIL DRAWINGS. Gaskets shall be listed under "Manhole Gaskets". Shop drawings shall be submitted for large diameter precast manholes used as junction boxes. The shop drawings shall include flowline elevations of all incoming and outgoing pipes, elevation of transition from large diameter sections to 48" ID section, top of manhole elevation, surrounding ground elevation, as well as special construction considerations that are specified in the contract drawings. Precast plant must be NPCA certified.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	SHERMAN DIXIE CONCRETE INDUSTRIES 200 42 nd Avenue North Nashville, TN 37209	
7/01/09	EAST TENNESSEE PRECAST 3700 Industrial park Drive Lenoir City, TN 37771	
7/01/09	BARGER & SONS 1009 Pawnook Farm Road Lenoir City, TN 37771	
7/01/09	HAMPTON PRECAST CONCRETE 1009 County Road 172 Athens, TN 37303	

NOTES:

1. Sections must comply with requirements of description above and with approved details.
2. Base sections shall be designed to prevent insertion of connecting pipe beyond inside surface of manhole wall.
3. Base sections for new construction shall be of precast concrete.
4. Flat slab tops shall only be used when specified in the contract drawings.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **COPPER METER SETTERS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03200 WATER SERVICE ASSEMBLIES

DESCRIPTION: Coppersettors, complete and ready made for meter setting, assembled with lead-free solder, angle ball meter valve on inlet side with padlock wing and single check valve on outlet side. Connectors shall be aligned and true for setting a 5/8" x 3/4" meter. Riser heights may vary depending upon meter sizes and particular installation conditions, but typical setter heights are as listed below.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	FORD METER BOX COMPANY P.O. Box 443 Wabash, IN 46992-0443	70 SERIES as follows: ¾-INCH VBH72-7W-11-33 1-INCH VBH74-10W-11-44 1½-INCH VBB76-12B-11-66 2-INCH VBB77-12B-11-77

NOTES:



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **DOUBLE STRAP SERVICE SADDLE for DUCTILE IRON or ASBESTOS CEMENT PIPE**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03200 WATER SERVICE ASSEMBLIES

DESCRIPTION: Service Saddles (tapping sleeves) double-strap having 12-mil nylon-coated ductile iron saddle with flat stainless steel straps and stainless steel bolts. Sizes are 4" x ¾" through 12" x 2" for Ductile Iron Pipe O.D. or Asbestos Cement Pipe O.D. Shall conform to AWWA C800, where applicable.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	SMITH-BLAIR, INC. P.O. Box 5337 Texarkana, TX 75505	Series 313 See note below
7/01/09	ROMAC INDUSTRIES, INC. 21919 20 TH Avenue SE Bothell, WA 98021	Style 202U See note below
7/01/09	FORD METER BOX COMPANY P.O. Box 443 Wabash, IN 46992-0443	F202 See note below
7/01/09	MUELLER COMPANY 500 West Eldorado Street Decatur, IL 62525	DR2A Series See note below
7/01/09	A.Y. McDONALD P.O. Box 508 Dubuque, IA 52004	Model 3825

NOTES:

1. Bolt opening on one side or both sides of body must fully enclose strap bolts.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST

For: **DUCTILE IRON PIPE & FITTINGS**

LAST REVISION: 07/1/09

CUB STOCK NUMBER:

DESCRIPTION: Water Pipe, Ductile Iron complying with AWWA C151; and Fittings, Ductile Iron complying with AWWA C110. Ductile Iron Water Pipe complying with AWWA C151 and Ductile Iron Fittings complying with AWWA C110 shall be asphalt coated and cement-mortar lined with asphaltic seal coat complying with AWWA C104. (See also Standard and Approved List for Compact Fittings for Ductile Iron Pipe.)

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	AMERICAN CAST IRON PIPE CO. P.O. Box 2727 Birmingham, AL 35202	See notes below
7/01/09	U.S. PIPE & FOUNDRY CO. P.O. Box 10406 Birmingham, AL 35202	See notes below
7/01/09	TYLER PIPE/UNION FOUNDRY P.O. Box 2027 Tyler, TX 75710	See notes below
7/01/09	GRIFFIN PIPE PRODUCTS CO. 2601 Ninth Avenue Council Bluffs, IA 51501	See notes below
7/01/09	McWANE, INC. (incl. ATLANTIC STATES PIPE CO., CLOW PIPE, and PACIFIC STATES PIPE CO.) P. O. Box 607 Birmingham, AL 35201	See notes below

NOTES:

1. Ductile Iron Water Pipe, except flanged pipe, to 12" diameter shall be Class 350 as defined by AWWA C150; sizes 16 inch and larger shall be Class 250 minimum. Flanged D.I. pipe shall be Special Thickness Class 53 meeting AWWA C115.
2. Materials shall meet applicable CUB's Standard Specification requirements. Acceptable sizes are 4", 6", 8", 12", and 16".
3. Submittals, if required by CUB, shall include results of independent laboratory testing showing that seal coating on pipe meets test requirements of Section 5.2 of AWWA Standard C104, and is in compliance with Section 4.11 of that Standard.
4. Only Tapping Saddles listings in that particular STANDARD AND APPROVED LIST shall be used for tapping D.I. pipe 12" in diameter and smaller.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **END CAPS FOR WASTEWATER SERVICE LINES**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 WASTEWATER COLLECTION SYSTEM

DESCRIPTION: End caps, rubber or approved equal, for temporary capping of wastewater service lines.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	CHERNE INDUSTRIES 5700 Lincoln Drive Minneapolis, MN 55436-1608	Test-Kaps
7/01/09	MISSION RUBBER P.O. Box 2349 Corona, CA 92878-2349	Band-Seal End Caps

NOTES:



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **END SEALS FOR ENCASEMENT PIPE**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES:

DESCRIPTION: End seals for encasement pipe. Neoprene rubber with stainless steel clamps unless otherwise noted.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	CCI PIPING SYSTEMS 1058 O'Neal Drive Breaux Bridge, LA 70517	Model ESW wrap-around w/mastic seal Model ESC seamless pull-on
7/01/09	THE BWM COMPANY P.O. Box 414 Forest City, NC 28043	Model BWM ES wrap-around w/mastic seal

NOTES:



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **FIRE HYDRANTS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES:

DESCRIPTION: Fire Hydrants – 5 ¼ inch, 250 psi (WP-AWWA) – dry-barrel, traffic model, post type, compression type main valve, AWWA C502. Hydrants shall have an operating rod travel stop nut, shall have approved coatings, and shall be furnished with caps, cap caskets, and cap chains. Typically for new work, bury depth shall be 42 inches.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	MUELLER COMPANY 956 Industrial Boulevard Alberville, AL 35950	A-423, 5 ¼ , Super Centurion 250 3-way, 250 WP AWWA
7/01/09	M&H VALVE COMPANY (If Approved) Anniston, AL	Style 129 Compression Type, 5 ¼ , 3-way, 250 WP AWWA

NOTES:

1. Only manufacturer’s catalog numbers indicated shall be used. Use of other items must have prior approval by CUB’s Director – Water and Sewer Department.
2. All Fire hydrants must have bronze-to-bronze seat retainer to insure easy removal of main valve. Copper alloy parts (bronze or brass) shall contain not over 16 percent zinc. Copper alloy UNS Numbers shall be shown on permanent external markings.
3. Exterior surfaces of hydrants above ground shall be coated with a paint system and color as approved by both CUB and the Clinton Fire Department.
4. At time of installation, installer shall re-lubricate operating mechanism and nozzle threads using the brand and type of lubricant listed for each hydrant, which are manufacturer-recommended lubricants. Substitution of other brands or types of lubricants is not permitted.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST

For: **FLEXIBLE PIPE-TO-MANHOLE CONNECTORS (AKA “BOOT”)**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

**STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS SECTION 04100
- MANHOLES**

DESCRIPTION: Flexible connector specifically designed and manufactured to produce a positive watertight seal for pipes entering precast concrete structures. Made from EPDM compound engineered to conform to the requirements of section 4.1.1, and stainless steel hardware is in compliance with section 4.2, of ASTM C-923-00. Installation procedures shall conform to ASTM C-1244 and ASTM C-478C.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	A-LOK PRODUCTS INC P. O. box 1647 697 Main Street Tullytown, PA 19007	Z-LOK
7/01/09	TRELLEBORG PIPE SEALS, INC 250 Elm Street P. O. box 301 Milford, NH 03055	Kor-N-Seal
7/01/09	PRESS-SEAL GASKET CORP. 2424 West State Blvd. Fort Wayne, IN 46808	Cast-A-Seal

NOTES:

1. Pipe-to-manhole connectors vary in design and manufacture when installed in pre-cast manhole sections during the manhole manufacturing process as compared to connectors used where existing manhole sections have been core drilled. Submittals shall be made to CUB for approval prior to ordering any such connector.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: GRAVITY SEWER PIPE – PVC (6-INCH to 15-INCH DIAMETER)

LAST REVISION: 7/01/2021

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS

DESCRIPTION: Pipe, polyvinyl chloride (PVC) gravity sewer 6" to 15" diameter meeting ASTM D 3034, with typical minimum wall thickness of SDR 26 and minimum pipe stiffness of 115 psi according to ASTM D 2412, with elastomeric gasket joints meeting ASTM D 3212 and gaskets meeting F 477. Pipe wall thicknesses and installation requirements may vary depending upon specific project conditions and shall be subject to CUB's approval.

Table with 3 columns: LISTING DATE, MANUFACTURER, PRODUCT IDENTIFICATION/COMMENT. Rows include manufacturers like NORTH AMERICAN PIPE CORP., JM EAGLE, Vulcan Plastics Corporation, and Sanderson Pipe.

NOTES:

- 1. For each project, Design Engineer shall submit to CUB's Director - Water and Sewer Department, deflection calculations based upon actual installation conditions. Pipe material specifications and installations will be considered for approval by CUB on a case-by-case basis.
2. Deflection testing is required and shall be conducted after final backfill has been in place at least 30 days. A rigid mandrel shall be used. Mandrel sizes are as follows:

Table with 4 columns: Nominal Size (inches), Average O.D. (inches), Minimum Wall Thickness, (inches), 95% Mandrel Diameter, (inches). Rows for sizes 6, 8, 12, and 15.

- 3. For 6" diameter pipe, maximum distance from center of the gasket to outermost edge of the pipe bell shall be not over 2" (ASTM F 1336).
4. 10" diameter pipe may be used for repairs only.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **JOINT RESTRAINT DEVICES, 4-INCH THROUGH 16-INCH DIAMETER**

LAST REVISION: 7/01/09

CUB STOCK NUMBER:

DESCRIPTION: Restraint Devices for joints on pipe, fittings, and valves. Devices shall be of the wedge-action lug-type mechanical joint (MJ) Retainer Glands or the split, full-circle grip-ring type with High Strength Low Alloy (HSLA) threaded thrust rods and nuts and stainless steel clamping bolts and nuts. For use only with 4" – 16" Ductile Iron (DI) pipe or 4" – 12" AWWA C900 (PVC) pipe as indicated and color-coded as noted. Restraint devices shall have a working pressure rating that equals or exceeds the pressure of the pipe, fittings, or valves on which they are used. The only approved products are those having the exact same identification as listed below.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	EBAA IRON, INC. Box 857 Eastland, TX 76448	Megalug: 1104 to 1116, Black MJ retainer gland for DI pipe 1704 to 1716, Black MJ retainer gland for DI pipe w/push-on joints 2004PV to 012PV, Red MJ retainer gland for PVC pipe Megaflange: 2104 to 2112, Red MJ retainer gland for PVC pipe, for above ground installation PVC Bell Restraint Harness 1500, Red split full-circle grip rings w/HSLA threaded rods and stainless steel clamping bolts
7/01/09	UNI-FLANGE/DIVISION OF FORD METER BOX CO. P.O. Box 443 Wabash, IN 46992-0443	Uni-Flange: UFR 1300 C-4 to C-8, Split full-circle grip-rings w/HSLA threaded rods and stainless steel clamping bolts. Black for DI, red for PVC. UFR 1390 C-4 to C-8, Split full-circle grip-rings w/HSLA threaded rods and stainless steel clamping bolts. Black for DI, red for PVC. UFR 1400 D-4 to D-16, Black MJ retainer gland for DI pipe UFR 1450 D-4 to D-16, Black MJ retainer gland for DI pipe with push-on joints UFR 1500 CA-4 to CA-12, Red MJ retainer gland for PVC pipe
7/01/09	SMITH-BLAIR 30 Globe Avenue PO Box 5337 Texarkana, AR 71854	Cam-Lock Joint Restraint Clamp #111 for DI pipe, 4"-16" nominal Clamp #120 for PVC pipe, 4"-24" nominal
7/01/09	ROMAC INDUSTRIES, INC. 21919 20 TH Avenue SE Bothell, WA 98021	GripRing, Yellow MJ retainer gland w/black split full circle grip-rings for DI or PVC pipe, 4" - 12" RomaGrip, Black MJ retainer gland for DI pipe, 16"



NOTES:

1. Only manufacturer's products indicated shall be used.
2. Restraint devices for DI pipe shall have a black coating.
3. Restraint devices for PVC pipe shall have a red coating.
4. These devices are not to be used on Plain-end DI fittings.
5. Specifying or use of restraint devices outside the indicated size range requires prior approval by CUB on a project-by-project basis.
6. Threaded thrust rods and nuts used with split, full-circle grip-ring restraint devices must be High Strength Low Alloy steel supplied by the restraint device manufacturer. Galvanized All-thread or similar rod is not allowed.
7. High Strength Low Alloy components must meet AWWA C111.
8. Warning tape shall be placed on the top of PVC pipe restrained by these devices and on the top of polyethylene wrap around DI pipe restrained with these devices for the full length of restrained joint pipe and fittings. The warning tape shall be yellow and shall have black lettering at least 2 inches high that states "Restrained Joint" at intervals not exceeding 24 inches. The warning tape shall be polypropylene having a minimum thickness of 2 mils, a minimum width of 3 inches, and adhesive backing on the side opposite the lettering.
9. Design for and select joint restraints based on water distribution system working pressure of 350 psi.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **JOINT RESTRAINT GASKETS for DUCTILE IRON PIPE**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

DESCRIPTION: Gaskets, rubber with stainless steel teeth for wedging action, used to provide restrained joints on standard push-on (socket and spigot) pipe 4-inch through 16-inch diameter. Gaskets shall meet performance requirements of AWWA C111.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	U.S. PIPE & FOUNDRY CO. P.O. Box 10406 Birmingham, AL 35202	Field Lok 350 Gasket used with Tyton Joint Pipe. See notes
7/01/09	GRIFFIN PIPE PRODUCTS CO. 2601 Ninth Avenue Council Bluffs, IA 51501	Field Lok 350 Gasket used with Tyton Joint Pipe. See notes.
7/01/09	AMERICAN CAST IRON PIPE CO. P.O. Box 2727 Birmingham, AL 35202	Fast-Grip Gasket used with Fastite Pipe. See notes.

NOTES:

1. These gaskets shall be used only on pipe joints, not fittings.
2. Fittings, used on pipe that is restrained with these gaskets, shall be M.J. that are restrained using devices listed on SPL WW-27A.
3. Not to be used on pipe larger than 16 inches unless approved by CUB.
4. Not to be used on pipe installed in encasement pipe unless approved by manufacturer.
5. Not to be used on pipe installed above ground.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: LININGS FOR DUCTILE IRON WASTEWATER PIPE

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES:

DESCRIPTION: Corrosion Resistant Linings for Ductile Iron Wastewater Pipe and Fittings: Pipe Meeting AWWA C151, Fittings Meeting AWWA C110 or C153 and requirements of CUB's STANDARD SPECIFICATIONS. Pipe or fitting manufacturer remains fully responsible for satisfactory performance of the lined wastewater pipe and fittings.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	MADISON CHEMICAL INDUSTRIES INC. 490 McGreachie Drive Milton, Ontario L9T 3Y5	Corropipe II Wasteliner or Polythane Polyurethane Lining
7/01/09	INDURON PROTECTIVE COATINGS c/o Vulcan Painters, Inc. Bessemer, AL 35021	Protecto 401 Epoxy Lining Ceramic
7/01/09		
7/01/09		

NOTES:

1. Ductile Iron Force Main Pipe, except flanged pipe, to 12-inch diameter shall be Class 350; sizes 16-inch and larger shall be Class 250 minimum.
2. All flanged D.I. Pipe shall be special Class 53 meeting AWWA C115.
3. Materials shall meet applicable specification requirements. Acceptable pipe sizes are 4" through 12" diameter, and all larger D.I. Pipe sizes.
4. Type and brand of lining shall be marked on each pipe or fitting.
5. Only one type and brand of lining shall be used for fittings on a project.
6. Only one type and brand of lining shall be used for pipe on a project.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **MANHOLE FRAME AND COVER CASTING SETS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

**STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS SECTION
04100 - MANHOLES**

DESCRIPTION: Manhole Frames (ring) and Covers (26 inch diameter covers) Gray Cast Iron, ASTM A48, Class 30B or higher or Ductile Iron, ASTM A536, Grade 60-40-18 or higher. Cover marked "CUB" and "Sanitary Sewer" to be cast top and bottom of cover, respectively. Castings (frame and cover combined) shall weigh no less than 287 pounds, and 5 pounds or more underweight will result in rejection. 24 inch diameter covers are for use only for replacements on older manholes.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	EAST JORDAN IRON WORKS 301 Spring Street East Jordan, MI 49727	Frame Cat # 1045Z Cover Cat # 1040A Meeting description and note
7/01/09	JOHN BOUCHARD & SONS CO. 1024 Harrison Street Nashville, TN 37203	Frame & Cover # 1152 Meeting description and note.

NOTES:

1. Must be in compliance with above description and with CUB STANDARD DRAWING No. 18. Machined surfaces shall be true to dimensions shown; no principal dimensions shall vary by more than 1/8" from dimension given on CUB STANDARD DRAWING No. 18.
2. Rocking or interference in fit between interchanged frame and cover will not be acceptable.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **MANHOLE GASKETS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS SECTION 04100 - MANHOLES

DESCRIPTION: Gaskets, elastomeric, for 48-inch diameter pre-cast manholes. Gaskets must meet ASTM C 443, including gasket marking, which shall include name of manufacturer, usable temperature range for application and storage, shelf life, lot or batch number, and manufacturer's product identification.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	HAMILTON KENT 77 Carlingview Drive Toronto, Ontario M9W 5E6	Product Identification: HK2021 (Solid-body Wedge, requires lubrication) Product Identification: Tylox SuperSeal 186 (Hollow body Wedge, self-lubricating)
7/01/09	PRESS-SEAL GASKET CORP. P.O. Box 10482 Fort Wayne, IN 46852	Product Identification: 210-4G (Solid-body Wedge, requires lubrication)

NOTES:



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **MANHOLE GRADE RINGS – RUBBER COMPOSITE**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

**STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS SECTION
04100 - MANHOLES**

DESCRIPTION: Flexible durable and light weight grade rings for adjusting the elevations of manhole rings and covers, as well as to match surrounding road surfaces, dampen traffic loads and reduce water infiltration. Manufactured of rubber fibrepolyurethane prepolymer composite material.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	EAST JORDAN IRON WORKS 216 E. 6th Street San Angelo, TX 76901 (formerly Western Iron Works and Vulcan Foundry)	INFRA-RISER

NOTES:

1. Maximum height of stacked rubber-composite grade rings shall not exceed 3-inches on any installation.
2. Grade rings shall be furnished either round or round with taper, as determined best for each specific installation, to best match the surrounding grade and provide maximum resistance against water infiltration.
3. Rocking or interference in fit between interchanged frame and grade ring will not be acceptable.
4. Vacuum testing of manholes shall be performed after all grade rings, risers, frame and cover have been installed.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **METER BOXES AND VAULTS - HDPE**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES:

DESCRIPTION: HDPE Meter Boxes (Light Weight) - Residential (¾" and 1" meters) and Commercial (1½" and 2" meters). HDPE meter boxes shall not be used with air release valves.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	CARSON INDUSTRIES 1160 Nicole Court Glendora, CA 91740	For ¾" meters – MIDSTATE PLASTICS, B-Series 15"x18" For 1" and 2" Meters – 012-12 Jumbo Meter Box With 012-3 Solid Cover
7/01/09	PENTAIR, INC. 502 Indiana Avenue Sheboygan, WI 53081	For 1" and 2" Meters – No. 190109

NOTES:

1. HDPE boxes are not for use in areas subject to traffic loads.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **PRESSURE REDUCING VALVES**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES:

DESCRIPTION: Pressure Reducing Valves for water service.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	CLA - VAL P.O. Box 1325 Newport Beach, CA 92659	90G - 01ABCS 90G-21 UL See notes below
7/01/09	WATTS ACV P.O. Box 752289 Houston, TX 77275-2289	No. 115 Series See notes below
7/01/09	BERMAD 4070 Leaverton Ct. Anaheim, CA 92807	Model No. 720 See notes below
7/01/09	ROSS VALVE MFG. CO., INC. 6 Oakwood Avenue P. O. Box 595 Troy, NY 12181	Model 40WR See notes below

NOTES:

1. Valves shall be designed to automatically reduce a higher inlet pressure to a lower, adjustable maximum outlet pressure regardless of fluctuations in demand.
2. Valves for use on fire service mains shall be UL listed, and shall have pressure gauges installed both upstream and downstream of the Pressure Reducing Valve, and a relief valve of not less than ½ inch in size shall be installed on the down stream side of the pressure control valve. Adequate drainage for the relief valve discharge shall be provided.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **PRESSURE WASTEWATER VALVES – BALL VALVES**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

**STANDARD SPECIFICATIONS REFERENCES: SECTION 04200 WASTEWATER FORCE MAIN
and SECTION 04300 PRESSURE WASTEWATER
VALVES**

DESCRIPTION: Ball valves for PVC, 2-inches to 6 inches in diameter, shall be full port design with adjustable seat retainer and true union couplings. Double O-ring stem seals and coupling seals shall be constructed of EPDM.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	HAYWARD FLOW CONTROL One Hayward Industrial Drive Clemmons, NC 27012	Hayward True Union TB Series
7/01/09		
7/01/09		
7/01/09		

NOTES:

1. Valves must be in compliance with above description and with CUB STANDARD DRAWINGS for L.P.S.S. SERVICE TIE-IN and L.P.S.S. FLUSHING CONNECTION.
2. Portions of the low pressure sanitary sewer service lines between the street right-of-way (or public easement) and the building to be served by the service line shall be in accordance with Chapter 3 of Clinton Utilities Board’s Sewer Use Rules, the Low Pressure Sewer Policy of the area where the valve will be located, and the latest revision of the International Plumbing Code as determined by the Codes Enforcement Office with jurisdiction.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: PRESSURE WASTEWATER VALVES – CHECK VALVES

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04200 WASTEWATER FORCE MAIN and SECTION 04300 PRESSURE WASTEWATER VALVES

DESCRIPTION: Check valves for PVC, 2-inches to 4 inches in diameter, able to work in any position except downflow. Check valves shall be full port design with true union couplings. Seals shall be constructed of EPDM.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	HAYWARD FLOW CONTROL One Hayward Industrial Drive Clemmons, NC 27012	Hayward True Union TC Series
7/01/09		
7/01/09		
7/01/09		

NOTES:

1. Valves must be in compliance with above description and with CUB STANDARD DRAWINGS for L.P.S.S. SERVICE TIE-IN.
2. Portions of the low pressure sanitary sewer service lines between the street right-of-way (or public easement) and the building to be served by the service line shall be in accordance with Chapter 3 of Clinton Utilities Board’s Sewer Use Rules, the Low Pressure Sewer Policy of the area where the valve will be located, and the latest revision of the International Plumbing Code as determined by the Codes Enforcement Office with jurisdiction.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **REDUCED WALL, RESILIENT-SEATED GATE AND TAPPING VALVES - AWWA C515**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER DISTRIBUTION SYSTEM AND SECTION 03100 VALVES, BLOWOFFS AND HYDRANTS

DESCRIPTION: Reduced wall, resilient-seated gate valves, nominal diameters of 4 through 16 inches, bronze mounted with non-rising stems. All products furnished shall conform to the American National Standards Institute and American Water Works Association C515-01 Standard (ANSI/AWWA C515-01) or latest revision thereof and Manufacturers Standardization Society Standard Practice for Connecting Flange Joint Between Tapping Sleeves and Tapping Valves MSS SP-60 or latest revision thereof.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	MUELLER COMPANY	Model A2361
7/01/09	U.S. PIPE AND FOUNDRY CO. P.O. Box 10406 Birmingham, AL 35202	Reduced Wall Metroseal
7/01/09	CLOW VALVE COMPANY	Model 2638
7/01/09	AMERICAN FLOW CONTROL P.O. Box 2727 Birmingham, AL 35202-2727	Model 2500
7/01/09		

NOTES:

1. Flanged and bolted joint as described in ANSI/AWWA C110/A21.10 or ANSI B16.1, Class 125
2. Mechanical Joint, gasketed and bolted, as described in ANSI/AWWA C111/A21.10, ANSI/AWWA C110/A21.11 or ANSI/AWWA C153/A21.53.
3. Push-On Joint shall be a single rubber gasket joint as described in ANSI/AWWA C111/A21.11.
4. Minimum design working water pressure shall be 200 psig.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: RESILIENT SEATED GATE AND TAPPING VALVES – AWWA C-509

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER DISTRIBUTION SYSTEM

DESCRIPTION: Resilient Wedge Gate and Tapping Valves, AWWA C-509 (3" through 24" diameter only), UL Listed, FM Approved, non-rising stem type with 2-inch operating nut, having ends with gaskets, glands, bolts, etc. as specified, and fully epoxy coated on the interior and the exterior. Copper alloy parts (bronze or brass) shall contain not over 16 percent zinc. Copper alloy UNS No. shall be shown on permanent external marking in addition to markings required by AWWA C509. Valve stems shall turn clockwise to close. Tapping valves shall be resilient seat type with bodies and bonnets made of ductile iron for 250 psig. working pressure. The mating valve flange to the tapping sleeve outlet must have a raised male face, conforming to MSS SP-60, to ensure true alignment of valve and tapping sleeve. The outlet end of the valve shall have the desired joint connection for the intended pipe.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	AMERICAN FLOW CONTROL P.O. Box 2727 Birmingham, AL 35202-2727	Series 2500-1 (3" - 12") Series 2500 (14" - 24")
7/01/09	MUELLER CO. 500 West Eldorado Street Decatur, IL 62525-1808	A-2360 (4" - 12") A-2361 (14" - 24")
7/01/09	M & H VALVE Division of McWane, Inc. P. O. Box 2088 Anniston, AL 36202	Style 7000 (3" - 12")

NOTES:

1. Specifying or use of valves outside the indicated size range requires approval of CUB on a project-by-project basis.
2. Valves shall be supplied with o-ring seals at all joints – no flat gaskets will be allowed.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: SEMI-RIGID COUPLINGS AND ADAPTERS

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 WASTEWATER COLLECTION SYSTEM

DESCRIPTION: Semi-Rigid couplings and adapters for joining no-hub wastewater lines. Shall be made of approved semi-rigid material or shall be covered with stainless steel shear-bands to prevent objectionable movement or offsets between jointed pipes.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	MISSION RUBBER CO., INC. P. O. Box 1839 Corona, CA 71718-1839	Shielded Couplings
7/01/09	DFW PLASTICS, INC. P.O. Box 648 Bedford, TX 76021-0648	Non-Shear Couplings and Adapters
7/01/09	FERNCO, INC. 300 South Dayton Street Davison, MI 48423	5000 Series Couplings

NOTES:

1. Stainless steel bands with nut and bolt tighteners (worm gear tighteners not allowed) shall be provided for effecting seals and for securing shear bands in place.
2. Use of these couplers to connect pipes of different sizes is allowed, but size reduction must be by a solid, one-piece semi-rigid material. Size reduction by installing a separate insert or bushing into a size-on-size coupling is not allowed.
3. These items are for use in repair of existing systems, except PVC pipe. They shall not be used in new installation, or for the repair of new piping, without prior written approval of CUB.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **SINGLE STRAP SERVICE SADDLES**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03200 WATER SERVICE ASSEMBLIES

DESCRIPTION: Service saddles, single-strap, brass alloy with silicon bronze bolts. Sizes are 2" x ¾", 2½" x ¾", 2" x 1", and 2½" x 1". Shall conform to ASTM B62, ASTM B584 and AWWA C800, where applicable.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	FORD METER BOX COMPANY P.O. Box 443 Wabash, IN 46992-0443	S70 - hinged See note below
7/01/09	MUELLER COMPANY 500 West Eldorado Street Decatur, IL 62525	S13000 See note below
7/01/09	AY McDONALD P. O. Box 508 Dubuque, IA 52004-0508	3891 See note below

NOTES:

1. Bolt opening on one side or both sides of body must fully enclose strap bolt.
2. Saddles sized to fit on IPS PVC



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: STAINLESS STEEL FULL CIRCLE REPAIR CLAMPS

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER LINES

DESCRIPTION: Stainless steel, full-circle repair clamps, typically used on cast iron water mains at a ring break. Sleeves shall have split body that completely surrounds pipe. Sleeves shall have mechanical joint body and flanged outlet and shall include accessories including MJ gaskets, split MJ glands, side flange gaskets, and 304 stainless steel nuts, bolts and washers. The interior and exterior surfaces of the sleeve shall be coated with fusion-bonded epoxy meeting AWWA C116.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	SMITH-BLAIR P.O. Box 5337 Texarkana, TX 75505	244 Full Circle <2 inch 245 regular < 2 inch 226 single band 2 inches and larger
7/01/09	FORD METER BOX COMPANY P.O. Box 443 Wabash, IN 46992-0443	Style FSC – Regular & Full Circle
7/01/09	MUELLER COMPANY 500 West Eldorado Street Decatur, IL 62525	230 Series – Full Circle 200 Series - Regular
7/01/09	DRESSER PIPING SPECIALTIES 15455 Dallas Parkway Addison, TX 75001	Style 360

NOTES:

1. Since these clamps are rated for a maximum of 150 psi working pressure they are not typically allowed in CUB’s system. However, in some circumstances, if allowed by CUB, these clamps may be used to make temporary repairs to Cast Iron, Ductile Iron, PVC, and AC pipe.
2. To be used only if indicated on the drawings.
3. Project submittal must include manufacturer’s order data sheet that lists, among other information, the type of steel; type of nuts, bolts and washers; type of coating; class of flanges; and pressure rating of body.



**CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST**

For: **STAINLESS STEEL SPLIT-BODY TAPPING and REPAIR SLEEVES**

LAST REVISION: 7/01/2023

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER LINES

DESCRIPTION: Sleeves, split body, stainless steel construction for cast iron, Class 350 ductile iron pipe or cast-iron-OD PVC pipe. Since most Split Body Tapping and Repair Sleeves are only rated for 150 psi working pressure the use of these fittings is typically not allowed in CUB’s system. However, if allowed by CUB, stainless steel split-body repair sleeves may be used to make temporary repairs to Cast Iron, Ductile Iron, PVC, and AC pipe. Sleeves shall have split body that completely surrounds pipe, body of 304 stainless steel. Both the interior and exterior surfaces of the sleeve shall be coated with fusion-bonded epoxy meeting AWWA C116.

Tapping Sleeves shall be provided with a 2 inch F.I.P.T. test port with brass plug. Tapping sleeves shall have flanged outlet designed to accommodate tapping valves. Flanges shall meet AWWA C207 Class E (275 psi) and body shall be rated for at least 200 psi working pressure.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	SMITH-BLAIR P.O. Box 5337 Texarkana, TX 75505	622 All Stainless Steel Tapping Sleeve 662 All Stainless Steel Tapping Sleeve with Epoxy Coated Flange
7/01/09	FORD METER BOX COMPANY P.O. Box 443 Wabash, IN 46992-0443	Style FTSS
7/01/09	ROMAC INDUSTRIES, INC. 21919 20 TH Avenue SE Bothell, WA 98021	Style FTS420
7/01/09	Mueller Co. 1401 Mueller Ave. Chattanooga, TN 37406	H-615 Tapping Sleeve

NOTES:

1. To be used only as indicated on the drawings and as directed by CUB.
2. Project submittal must include manufacturer’s order data sheet that lists, among other information, the type of steel; type of nuts, bolts and washers; type of coating; class of flanges; and pressure rating of body.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **STOPS - CORPORATION**

LAST REVISION: 7/01/2011

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03200 WATER SERVICE ASSEMBLIES

DESCRIPTION: Corporation ball valve type, quick joint for copper tubing (CTS) by AWWA/CC taper thread. Corp. Stops shall be designed to withstand working pressures up to 300 psi. Brass components shall be of no-lead alloy UNS/CDA No. C89833.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	FORD METER BOX COMPANY P.O. Box 443 Wabash, IN 46992-0443	¾-INCH FB1000-3-Q 1-INCH FB1000-4-Q
7/1/09	A.Y. McDonald P.O. Box 508 Dubuque, IA 52004	¾" & 1"-4701BQ

NOTES:



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: **TRANSITION COUPLINGS**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER LINES

DESCRIPTION: Couplings, Transition, Bolted, Welded Steel or Ductile Iron (12" through 24") for connection of pipe of same nominal size with different outside diameter.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	SMITH-BLAIR, INC. P.O. Box 5337 Texarkana, TX 75505	Style 441
7/01/09	ROMAC INDUSTRIES, INC. 21919 20 th Avenue SE Bothell, WA 98021	Style 501 Style XR 501
7/01/09	FORD METER BOX CO. P.O. Box 443 Wabash, IN 46992-0443	Style FC2A
7/01/09	DRESSER PIPING SPECIALTIES 15455 Dallas Parkway Addison, TX 75001	Style 62 Transition Coupling

NOTES:



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: VALVE BOXES AND LIDS – CAST IRON

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER DISTRIBUTION SYSTEM

DESCRIPTION: Valve boxes, manufactured from gray cast iron, one or two piece construction, screw-type, furnished complete with matching lids (covers), for use over valves with 2-inch operating nuts.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	EAST JORDAN IRON WORKS 301 Spring Street East Jordan, MI 49727	8560 Series with 6800 Valve Box Drop Lid
7/01/09	TYLER UNION 11910 CR 492 Tyler, TX 75706	6850 Series with matching drop lid
7/01/09	BINGHAM & TAYLOR P.O. Box 939 Culpeper, VA 22701	4905 with matching drop lid (cover)

NOTES:

1. Specifying for use of boxes for valves larger than 12-inch or for valves other than resilient seated gate or tapping valves requires approval of CUB on a project-by-project basis.
2. Wording shall be cast into the top of removable lids (covers) to indicate valve service. Wording shall large and readable, and as follows:

Potable Water	“WATER”
Fire Hydrant Isolation Valve	“FIRE”
Wastewater	“SEWER”
Low Pressure Sewer	“LPSS”



**CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST**

For: **VALVE BOXES ALIGNMENT DEVICE**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER DISTRIBUTION SYSTEM

DESCRIPTION: Valve box alignment devices for use with standard resilient wedge gate valve meeting AWWA C509 or C515, and in standard two-piece cast iron valve boxes (See Standard and Approved Products List for Resilient Gate and Tapping Valves, and Valve Boxes – Cast Iron.)

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	EMMA SALES P. O. Box 730 Farview, TN 37062	BOXLOK
7/01/09	SIGMA CORPORATION 700 Goldman Drive Cream Ridge, NJ 08514	BOX-LOK

NOTES:

1. Specifying for use on valves larger than 12-inches, or for valves other than resilient seated gate or tapping valves requires approval of CUB on a project-by-project basis.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: WASTEWATER GASKETED SEWER PIPE FITTINGS

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 SANITARY SEWERS

DESCRIPTION: Fittings, polyvinyl chloride (PVC) gravity sewer. 4” through 12” injection molded gasketed SDR 35 sewer fittings shall be manufactured in accordance with ASTM D 3034, ASTM F-1336, and CSA B182.2. They shall be injection molded from virgin PVC compound having a cell classification of 12454 or 13343 in accordance with, and certified by the National Sanitation Foundation (NSF), to meet ASTM D-1784. Gaskets shall be manufactured in accordance with ASTM F 477 or ASTM F 913. Gaskets shall be firmly seated in fitting in order to ensure proper installation and to prevent dislocation or misalignment during system assembly. Gasket joints must comply with ASTM D 3212 Internal Pressure Test (exfiltration) and Vacuum Test (infiltration) at 5 degrees of gasket joint deflection. Installation shall be in accordance with ASTM D-2321.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	HARCO P. O. Box 10335 Lynchburg, VA 24506	HARCO SDR35 Meeting description and notes
7/01/09	PLASTIC TRENDS, INC 56400 Mound Road Shelby TWP, MI 48316	ASTM D3034 Includes 6-inch two-way cleanout fitting No. H1004 Meeting description and notes.
7/01/09	GPK PRODUCTS, INC. 1601 43 rd Avenue Fargo, ND 58102	ASTM D3034 Meeting description and note.
7/01/09	MULTI-FITTINGS CORPORATION 4507 LeSaint Court Fairfield, OH 45014	ASTM D3034 Meeting description and note.

NOTES:

1. Must be in compliance with above description and with CUB STANDARD DRAWING for IN-LINE CLEANOUT and STANDARD RESIDENTIAL GRAVITY SEWER SERVICE DETAIL.
2. Portions of the gravity sanitary sewer service lines between the street right-of-way (or public easement) and the building to be served by the service line shall be in accordance with the latest revision of the International Plumbing Code, as determined by the Codes Enforcement Office with jurisdiction.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT

STANDARD AND APPROVED PRODUCTS LIST

For: WASTEWATER (SEWER) PIPE - DUCTILE IRON

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES: SECTION 04000 WASTEWATER COLLECTION SYSTEM and SECTION 04200 WASTEWATER FORCE MAIN

DESCRIPTION: Wastewater Gravity and Force Main Pipe, Ductile Iron. AWWA C151 and Fittings. Joints shall be AWWA C111 mechanical or push-on type with plain rubber gaskets. Ductile Iron Wastewater Pipe and Fittings shall be lined with a CUB-approved corrosion resistant material. Lining material used shall be in accordance with Standard and Approved Products List. No more than one type or brand of lining shall be used for any project. This pipe may only be used for gravity flow wastewater lines except when, in the opinion of the Engineer or as otherwise directed by CUB, the strength of DI makes its use appropriate, and then only if specifically shown on CUB-approved construction drawings.

Table with 3 columns: LISTING DATE, MANUFACTURER, PRODUCT IDENTIFICATION/COMMENT. Rows list manufacturers like AMERICAN DUCTILE IRON PIPE CO., UNITED STATES PIPE & FOUNDRY CO., TYLER PIPE, GRIFFIN PIPE PRODUCTS CO., and McWANE CAST IRON PIPE CO.

NOTES:

- 1. Ductile Iron Water Pipe, except flanged pipe, to 12" diameter shall be Class 350 as defined by AWWA C150; 16" and larger shall be Class 250 minimum. Flanged D.I. pipe shall be special Class 53 meeting AWWA C115.
2. Materials shall meet applicable specification requirements. Acceptable sizes are 4", 6", 8", 12", 16", 20", 24", 30", and multiples of 6" in larger sizes.
3. Pipe Manufacturer shall certify that the lining will withstand, without damage, high pressure jet washing that is used to flush lines prior to CCTV inspection and as required for normal maintenance purposes.
4. Approved tapping clamp required for tapping DI force main 12" and smaller.



**CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST**

For: WATER and/or WASTEWATER (SEWER) PIPE - HDPE (2-INCH to 4-INCH DIAMETER)

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

**STANDARD SPECIFICATIONS REFERENCES: SECTION 03000 WATER DISTRIBUTION SYSTEM,
SECTION 04000 SANITARY SEWERS and SECTION 04200
WASTEWATER FORCE MAIN**

DESCRIPTION: HDPE pipe, 2-inch to 4-inches in diameter, and fittings shall be SDR-11 or SDR-09 high-density polyethylene meeting the requirements of ASTM D3035, ASTM D2239, ASTM D2737, ASTM F714, AWWA C901/C906. The pipe shall be manufactured from premium PE3408/PE3608 resin material that conforms to ASTM D3350 with the cell classification of 345464C/E and is listed with the Plastic Pipe Institute’s TR4. It is to be formulated with carbon black and /or ultraviolet stabilizer for maximum protection against UV rays.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	NORTH AMERICAN PIPE CORP. 2801 Post Oak Blvd. Suite 410 Houston, TX 77056	
7/01/09	JM EAGLE 5200 West Century Boulevard Los Angeles, CA 90045	
7/01/09	Vulcan Plastics Corporation 207 Durham Drive Athens, AL 35611	

NOTES:

1. For each project, Design Engineer shall submit to CUB’s Director - Water and Sewer Department, pipe wall thickness requirements based upon actual installation conditions. Pipe material specifications and installations will be considered for approval by CUB on a case-by-case basis.
2. Except for special installation, piping and fittings shall be joined together using socket, heat or saddle fusion procedures and/or compression fittings designed specifically for use on HDPE pipe, approved by CUB and installed by acceptable directional drilling methods as further described in these Standards.



CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST

For: **WATER MAIN PIPE - PVC**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REF'S: SECTION 03000 WATER DISTRIBUTION SYSTEM

DESCRIPTION: Pipe, polyvinyl chloride (PVC) pipe (2-inch diameter and larger) and fittings shall be NSF-Approved SDR-17 Class 250. The pipe shall be manufactured from Class 12454-B polyvinyl chloride plastic (PVC 1120) as defined by ASTM D1784, and in accordance with ASTM D2241 and the Materials Specifications.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	NORTH AMERICAN PIPE CORP. 2801 Post Oak Blvd. Suite 410 Houston, TX 77056	NSF-Approved SDR-17 Class 250 See notes below
7/01/09	JM EAGLE 5200 West Century Boulevard Los Angeles, CA 90045	NSF-Approved SDR-17 Class 250 See notes below
7/01/09	Vulcan Plastics Corporation 207 Durham Drive Athens, AL 35611	NSF-Approved SDR-17 Class 250 See notes below
7/01/09	CERTAINTEED CORPORATION P. O. Box 860 Valley Forge, PA 19482	NSF-Approved SDR-17 Class 250 See notes below

NOTES:

1. Material must comply with requirement of description above and be rated above design pressure. Acceptable sizes are 4 inch, 6 inch, 8 inch and 12 inch.
2. Gaskets and lubricants intended for use with PVC pipe, as supplied by the pipe manufacturer, shall be made from materials that are compatible with the plastic material and with each other when used together will not support the growth of bacteria, and will not adversely affect the potable qualities of the water that is to be transported. Gaskets shall be the elastomeric type and shall be manufactured to conform to the requirements of ASTM F-477.
3. Pipe lengths shall be no greater than 20 feet.



**CLINTON UTILITIES BOARD WATER AND SEWER DEPARTMENT
STANDARD AND APPROVED PRODUCTS LIST**

For: **WATER METERS - RESIDENTIAL 5/8" x 3/4" and 1-inch**

LAST REVISION: 7/01/2009

CUB STOCK NUMBER:

STANDARD SPECIFICATIONS REFERENCES:

DESCRIPTION: Water meters for typical residential installation; positive displacement measuring chamber design, roll-sealed register, bronze main case meters which meet or exceed the latest revision of AWWA C700; frost-proof type with cast iron bottom plates; register shall be the hermetically sealed magnetic type, straight reading, U.S. Gallons with test hand.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
7/01/09	UNITED UTILITIES, INC 528 Almadale Road Smyrna, TN 37167	M25 5/8" x 3/4" M55 1-inch

NOTES:

1. CUB SERIAL NUMBERS shall be affixed inside the lid of each meter as directed by CUB when the order is placed; YOM serial numbers on housing and outside lid.
- 2.