

UPDATE LOG FOR APPROVED LIST OF MATERIALS

Date	Item(s) Changed	Page 1
12/2022	<p>APPROVED LIST OF MATERIALS</p> <p>Please replace the entire document dated 08/2022 with the attached document dated 12/2022.</p>	All
	<p>APPROVED LIST OF MATERIALS</p> <p><u>I. Water/Recycled Water Facilities</u></p> <p>K. <u>PVC Pipe C900</u></p> <p>Vinyl Tech Diamond North American Pipe Westlake Pipe & Fittings</p>	5

Change Legend:
 Added
 Strike-out

Appendix "A"

APPROVED LIST OF MATERIALS

I. Water/Recycled Water Facilities

A. Valves - Per Valve Application Table (herein)

1. Resilient Seat/Wedge Gate Valve

150 psi

American Flow Control - Series 2500
AVK Valve - Series 45
Clow Valve - Series F6102
M&H Valve - Series 7561, 7571, 7572
Mueller Valve - Series A-2360

200 psi

Mueller Valve - Series A-2360
US Pipe - Metro Seal
AVK Valve - Series 45
M&H Valve - Series 7561, 7571, 7572

250 psi

American Flow Control - Series 2500
AVK Valve - Series 45
Clow Valve
M&H Valve - Series 7561, 7571, 7572

2. Butterfly Valves

150 psi

Crispin K-Flo 504 (4-inch-20-inch)
Crispin K-Flo 47 (24-inch and larger)
DeZurik - BAW Series
Milliken - Model 511
Mueller - Linesal III - B3211
Pratt Groundhog (below-ground)

250 psi

Crispin K-Flo 504
DeZurik - BAW 250
Mueller - Linesal XPII - B5227
Pratt - HP250II

350 psi

Mueller - Linesal 350 - B5227
Pratt - HP350

3. Metal Seated Butterfly Valves

Adams Type MAK
Vanessa Model 30000QTSVE
DHC

4. Plug Valves

DeZurik Eccentric Non-Lubricated
(PEC)

5. Ball Valves

(6-inch and larger)
Under 300 psi - Rubber Seat
Over 300 psi - Metal Seat

B. Valves – 2-inch and Smaller

1. Ball Valves 400/600 WOG (Small Diameter)

Apollo - 70-100
Ford - B44-444-Q/B44-777-Q/B44-777-QW
Jones - J-1900-(Air Valve Installations)
J-1949SG/J-1949SGW
Mueller - B-25209/B-25416
A.Y. McDonald - 6100FH/6100MW
Cambridge - 202NL/212NL

2. Ball Angle Meter Stops – 1-inch, 1½-inch, & 2-inch

MSN x CU Flare:
Jones - E-1964W/E-1973W
Ford - BFA23-
444W/666W/777W
Mueller - B-24255/B-24277
A.Y. McDonald - 74602B
Cambridge - Series 210NL

MSN x Compression:

Jones - J-4201/J-1975W
J-1963W/1975WSG
Ford - KV43-444-NL/FV43-666W-NL
FV43-777W-NL
BA43-444W-Q
BFA43-777W-Q
Mueller - H-14258/H-14277
B24258-1/B-24276
A.Y. McDonald - 4602-T/4602-22
Cambridge - 210 (Series)

3. Curb Stop

Ford – ¾-inch - B11-333W-NL
1-inch - B11-444W-NL
1½-inch - B11-666W-NL
2-inch - B11-777W-NL
Jones - E1900W
A.Y. McDonald - 76101W
Mueller - B20283N
Cambridge - Series 212NL

4. Angle Curb Valve (Flare x FNPT)

Muller 300 - B24275 or approved
equal

5. Ball Corp Stops – 1-inch, 1½-inch, & 2-inch

MIPT x CU Flare:

Jones - E-1929
Ford - FB700 Series
Mueller - B25025
A.Y. McDonald - 74704B
Cambridge - Series 301NL

MIPT x Compression:

Jones - J-1935
Ford - FB1000-NL/RB1100-NL
F1100-4/F1100-7
Mueller - H-15000 (w/110)
H-15013 (w/IPT)
H-15023 (w/IPT)
H-15008
A.Y. McDonald - 4701-22
Cambridge - 301NL

6. Key Corp Stops – 1-inch, 1½-inch, & 2-inch

Jones - J-3401
Mueller - H-15008 (Series)
A.Y. McDonald - 4701-22
Cambridge - 301 (Series)

C. Air Valve Units

1a. AV/AR Valves – Single Body

Apco 1-inch - 143C
Apco 2-inch - 145C
Apco 4-inch - 149C
ARI D-040
Crispin 1-inch - Model UL10
Crispin 2-inch - Model UL20
Crispin 4-inch - Model UL41
Valmatic 1-inch - Model 201C
Valmatic 2-inch - Model 202C
Valmatic 4-inch - Model 204C

1b. AV/AR Valves – Dual Body

(Pump Station, Well, and Reservoir
Manifolds)

Apco 1800 Series
Valmatic 1-inch - Model 101S
Valmatic 2-inch - Model 102S
Valmatic 4-inch - Model 104S

D. Fire Hydrants

1. Residential (standard) 2-Port

Jones 6-inch - 3700, 3710, 4040
Clow 6-inch - 2050, 850, 950
AVK 6-inch - 2462, 2470

a. High Pressure Fire Hydrants

AVK - Series 2472 (with
integral 8-hole break-off spool)

2. Commercial (super) 3-Port

Jones 6-inch - 3765, 4060
Clow 6-inch - 2060, 860, 960
AVK 6-inch - 2464, 2490

E. Backflow Prevention Valves

1. Double Check Detector Assembly or
Reduced Pressure Detector
Assembly

(USC/FM/UL-approved)

2. Reduced Pressure Principle
Backflow Prevention Assembly

(Lead Free, USC/FM/UL-approved)

3. Silent Check Valve

Wafer Style:

Apco - Series 300

Globe Style:

Apco - Series 600

Cla-Val - Series 581

Crispin - GC

4. Single Swing Check Valve

(¾-inch - 2-inch)

(Buna or Teflon Seat)

Milwaukee

Hammonds

5. Double Swing Check ¾-inch - 1-inch
Valve

Watts No. 7 Dual Check Valve

FEBCO No. 810 Dual Check Valve

6. Swing Check Valve
(With Weight/Lever)

Clow/M&H - 159-02

Mueller - A2600-06-01

APCO/DeZurik - Series 250

APCO/DeZurik - Series 6000

American - Darling Model 52-SC

7. Hydraulic Check Valves

Apco

Dresser/M&H

8. Resilient Seated Check Valve

American Flow Control – Series 2100

F. Control Valves

1. Pressure Relief Valve

Cla-Val

(Model 50G-01 BKC D/S – Max. 8-inch)

2. Pressure Reducing Valve

Cla-Val

(Model 90G-01 BYKOC D/S – 8-inch
and smaller)

(Model 690G-01 BYKOC D/S – 10-inch
and larger)

3. Altitude Valve

(5-foot – 40-foot Range)

Cla-Val

(Model 210G-01 BYKC D/S – 16-inch
and smaller)

(Model 610G-01 BYKC D/S – 20-inch
and 24-inch)

4. Pump Control Valve

(Well Pumping Plant)

Pump-To-Waste

Cla-Val

(Model 61G-02 BYKC D/S)

(In-Line Combination Back Pressure,
Solenoid S/O & Check Valve)

Cla-Val

(Model 58G-01 BDKC)

5. Pump Control Valve
(Booster Pumps) (In-Line
Combination Pump Control
Valve/Check Valve)
- Cla-Val
(Model 60G-11 BCKC D/S or Model
60G-73 BCKC D/S – 8-inch and
smaller)
- (Model 60G-31 BYKC D/S – 10-inch
and larger)
6. Surge Anticipator
- Cla-Val Model 52G-03 BKC D/S
7. Basic Valve
- Cla-Val (Model 100-01, Clayton
Hytrol Valve)
- G. Tapping Sleeves and Service Saddles
- 1a. Tapping Sleeve
(Stainless Steel)
- Ford - Series FAST and FTSS
Power Seal - Series 3490AS
Romac - Series SST
JCM – Series 432
- 1b. Tapping Sleeve
(Ductile Iron with Fusion Epoxy
Coating)
- Power Seal
Romac
2. Service Saddle
- AC Pipe - Double Strap
S.S. or Bronze
- Jones - Series 979
Ford - Model 202BS
Romac - Style 202
- PVC Pipe C-900 – Double SS Strap
Or Wide Single SS Strap Less than
12-inch Diameter
- A.Y. McDonald - C900 Saddle – 3846
and 3856
- Ford - Model 202BS
Jones - Series 969
Romac - Series 202BS or
202NS (high pressure)
Mueller - BR2S or
DR2S (high pressure)
- More than 12-inch Diameter
Power Seal - Series 341AS
Romac - Series 202N
(with epoxy coating)
- H. Joint Restrainers
1. PVC Pipe Mechanical Joint Restraints
- Valve/Fitting Application
- a. EBBA - Iron (Megalug)
- Series 2000 Pipe Sizes 4-inch - 30-inch
- b. Ford (Uniflange)
- (1) Series 900 - Adaptor Flange
- Pipe Size up to 12"
(2) Series 1300 - Pipe Size up to
24"
- c. Sigma Joint Restrainers
- d. Tyler Union – Tuf Grip (Red)
- e. Romac
- (1) “Grip Ring” Style No. 612
(2) “Roma Grip”
(3) RFCA for PVC Pipe
- f. One Bolt
- g. JCM – Series 610
- h. Star Pipe Products – Series 1000

Bell and Spigot Application

- a. EBBA - Iron (Megalug)
 - (1) Series 1500 - Pipe Size up to 12-inch
 - (2) Series 2800 - Pipe Size greater than 12-inch
- b. Ford (Uniflange)
Series 1350 - Pipe Size up to 24-inch
- c. Sigma Joint Restrainers
- d. Romac
 - (1) "Grip Ring" Style No. 611
 - (2) "Roma-Grip"
- e. JCM – Series 620
- f. Star Pipe Products – Series 1100

I. Ductile Iron Fittings

Clow
Long Beach Iron
Tyler Pipe Inc.
Sigma
South Bay Foundry
Star
Union Foundry Company
SIP Industries

J. Plastic/Concrete Boxes/Vaults/Vault Lids

1. Plastic Meter Boxes & Lids

- ¾-inch – 1-inch Services:
- Carson 1220-12
 - Applied Engineering 1320-1G2G
- 1½-inch – 2-inch Services:
- Carson 1220-12
 - Applied Engineering 1320-1G2G

1-inch AV/AR:

- Carson 1220-12
- Applied Engineering 1320-1G2G

2-inch AV/AR

- Carson 1730-18
- Applied Engineering 1730-18P2P

2. Round Plastic Valve Boxes
(Test Station Boxes)

- a. Applied Engineering Model 910
- b. Carson Model 910

3. Concrete Boxes/Vaults (Per Standard Drawings and Specs)

Associated
Best Concrete Products
Brooks
Christy
J&R Products
San Diego Pre-Cast
B & W Pre-Cast

4. Spring-Loaded Aluminum Lids

Puritan Manufacturing
USF Fabrication, Inc.
Bilco Co.
Lasco Lids

K. PVC Pipe C900

Vinyl Tech
Diamond
Westlake Pipe & Fittings

L. Pumps

Goulds
Peerless
Byron Jackson
Fairbanks-Morse

M. Casing Spacers and Insulators

Advance Products & Systems

N. Repair Couplings

Romac 501, XR-501, and Macro
Total Piping Solutions – Hymax Coupling

O. Grooved Couplings

Victaulic (Style 77)
Gruvlok (Fig. 7001)

P. Splicing Couplings

Cambridge – 119NL
Ford – C44-G Series/C44-44-NL
C44-66-NL/C44-77-NL
C84-44-NL/C66-44-NL
Jones – J-2609/J-2610
Mueller – H-15403/N-35403

II. Sewer Facilities

A. Composite Manhole Frames and Covers

1. EJCO 2600 Assembly Product
Number NPR19-000123A01
2. EJCO 3800 Assembly Product
Number NPR19-000225A01

B. Manhole Lid Hardware

TITUS TwistLIFT TL-125

C. Valves

1. Plug Valves
DeZurik eccentric, full port
2. Air Valves
ARI - AV/AR Valves

D. Pumps

1. Fairbanks-Morse
2. Flyght
3. KSB

III. Electrical

A. Motors (High Efficiency, Inverter Rated)

General Electric Corporation
Emerson Electric Co.
U.S. Electrical Motors Division
Baldor

B. Magnetic Flow Meter

Endress Hauser Promag W 400

C. Conductive Waterproof Compound

Zinc Clads Primer Coating No. B69A45
HTL-4 by Crouse-Hinds
Kopr shield by Thomas & Betts
Burndy

D. Flex Conduits (Electrical)

American Brass
Anaconda
Electroflex

E. Wire and Cable (Electrical)

Anaconda
General Cable
General Electric
Okonite
Triangle

F. Compression Connectors

Burndy “HI lug”
Thomas & Betts “Shure Stake”

G. Pre-Insulated Springs Connectors

Ideal Wing Nuts
3M

H. Pre-Insulated Fork Tongue Lugs

Thomas & Betts RC Series
Burndy

I. High Temperature Vinyl Tape

3M Scotch (33+)
3M Scotch (23)

J. Insulated Bushings

Thomas & Betts
Steel City
Appleton
Burndy

K. Insulated Ground Bushings

Thomas & Betts
Steel City
Gedney
Burndy

L. Erickson Coupling

Appleton Type EC, 3-Piece Coupling
Thomas & Betts
Steel City
Gedney
Hubbell
Hoffman

M. Liquid-Tight Fittings

Appleton Type ST
Crouse-Hinds
Thomas & Betts
Gedney
Hubbell

N. Hubs

Appleton Type HUB
Thomas & Betts
Myers Scru-Tite
Hubbell

O. Pressure Transmitters

Rosemount - Reservoirs (0 - 30 psi)
Dwyer - All other applications (0 - 600
psi)

P. Pressure Switches

Mercoid
Ashcroft

Q. Line Ammeter

G.E.
Compton
Yokogawa

R. Ammeter Switch

G.E.
Compton
Yokogawa

S. Thermostats

Rittal
Hoffman
Square D
Wiegmann
Vulcan

T. Space Heaters

Rittal
Hoffman
Square D
Wiegmann
Vulcan

U. Switches and Push Buttons (30 mm)

Cutler Hammer
Square D, Class 9001, Type K

V. LED Lights (Lamps)

Cutler Hammer
Square D

W. AC Relays (Ice cube, pin type)

Cutler Hammer
Square D
IDEC

X. DC Relays (Ice cube, blade type)

Cutler Hammer
Square D
IDEC

Y. Reset Timers

Cutler Hammer
Square D
IDEC

Z. Phase Failure Relay

Cutler Hammer
Square D
IDEC

AA. Induction Relay

Cutler Hammer
Square D
IDEC

BB. Elapsed Time Meter

Cutler Hammer
Cramer
Square D
IDEC

CC. Customer Metering System

Cutler Hammer
Cramer
Square D
IDEC

DD. Customer Metering System

Cutler Hammer
Square D

EE. Lighting Arrestors

Cutler Hammer
Square D

IV. Paint

A. Manufacturers: One of the following or equal:

1. Devoe: Devoe Coatings, Louisville, KY
2. Dunn Edwards: Dunn Edwards Paints, Los Angeles, CA
3. Sherwin-Williams Co., Cleveland, OH
4. Tnemec: Tnemec Co., Kansas City, MO.
5. FSC Coating

B. Pretreatment, Primers, Primer-Sealers, and Wood Stain

1. Aluminum Primer: One of the following or equal:
 - a. S/W: DTM Wash Primer B71Y1 for alkyd systems; none required for latex systems
2. Concrete Masonry Filler/Primer: One of the following or equal:
 - a. S/W: B42W46, Block Filler Interior/Exterior
 - b. Tnemec: 130-6601, Envirofill
3. Concrete, Porous, Filler/Primer: One of the following or equal:
 - a. S/W: B42W46, Block Filler Interior/Exterior
 - b. Tnemec: 130-6601, Envirofill
4. Concrete, Smooth, Filler/Primer: One of the following or equal:
 - a. S/W: B61W2, Epoxy Ester Masonry Filler/Sealer
 - b. Tnemec: W55 WB, Tneme-Crete

5. Ferrous Metal Primer: One of the following or equal:
 - a. S/W: B50WZ1, Kem Kromik Universal Metal Primer
 - b. Tnemec: Series 135 Chembuild

 6. Galvanized Metal Surface Pretreatment Materials: One of the following or equal:
 - a. Amercoat: 59.
 - b. S/W: P60G2, Wash Primer
 - c. Tnemec: 32-1210, Tneme-Grip

 7. Galvanized Metal Surface Primer: One of the following or equal:
 - a. S/W: Galvite HS B50WZ30 for alkyd systems; none for latex systems
 - b. Tnemec: Series 135 Chembuild

 8. Plaster Sealer: One of the following or equal:
 - a. S/W: PreRite 200 Primer B28W200
 - b. Tnemec: 51-792, PVA Sealer

 9. Plywood, Latex Finishes: One of the following or equal:
 - a. S/W: B42W41, A100 Latex Primer
 - b. Tnemec: Series 151, Elasto-Grip

 10. Wood Primer for Opaque Finish Paint, Interior Exposure: One of the following or equal:
 - a. S/W: B49WZ2, Wall and Wood Primer

 11. Wood Primer for Opaque Finish Paint, Exterior Exposure: One of the following or equal:
 - a. S/W: Y24W20, A-100 Primer

 12. Wood Stain: One of the following or equal:
 - a. S/W: Wood Classics Interior, Oil Stain
- C. Paints, Interior Exposure
1. Latex, Flat: One of the following or equal:
 - a. S/W: Promar 200, Latex Flat Wall Paint
 - b. Tnemec: Series 6, Tneme Cryl

 2. Latex, Semi-Gloss: One of the following or equal:
 - a. S/W: Promar 200, Latex Semi-Gloss Wall Paint
 - b. Tnemec: Series 7, Tneme Cryl

 3. Alkyd, Gloss: One of the following or equal:
 - a. S/W: B54Z, Industrial Enamel, VOC Complying

 4. Acrylic, Semi-Gloss: One of the following or equal:
 - a. S/W: Min-Wax Helmsman Varnish

 5. Urethane Varnish, Clear: One of the following or equal:
 - a. Flecto: Varathane Exterior Liquid Plastic
 - b. S/W: A67V4, Exterior Varnish

 6. Oil: One of the following or equal:
 - a. Watco Danish Oil

D. Paints, Exterior Exposure

1. Latex, Flat: One of the following or equal:
 - a. S/W: A-100, Flat Exterior Latex
 - b. Tnemec: W55 WB, Tneme-Crete

2. Alkyd, Gloss: One of the following or equal:
 - a. S/W: B54Z, Industrial Enamel, VOC Complying

3. Acrylic Latex, Semi-Gloss: One of the following or equal:
 - a. S/W: A100, Latex House and Trim Paint

4. Urethane Varnish, Clear: One of the following or equal:
 - a. Flecto: Varathane Exterior Liquid Plastic
 - b. S/W: A67V4, Exterior Varnish

E. Colors

1. Potable Water – Blue, Tan (Frazee “Travatan,” Color No. 213), or Safety Yellow
2. Recycled Water – Magenta
3. Sewer/Wastewater - Green