



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

DOMESTIC WATER

A. COPPER TUBING

- a. 1-inch copper tubing, K-soft

Approved Manufacturers:

- 1) Cerro
- 2) Mueller
- 3) Halstead
- 4) Cambridge-Lee Industries

- b. Factory Polyethylene Coated Copper Tubing

Approved Manufacturer:

- 1) Kamco Aqua Shield

- c. 1½-inch or 2-inch Copper Tubing, Rigid Pipe (Type “K” Soft in 20’ lengths)

Approved Manufacturers:

- 1) Cerro
- 2) Mueller
- 3) Halstead
- 4) Cambridge-Lee Industries

B. SERVICE LINE FITTINGS

- a. Corporation Stops

1-, 1½- and 2-inch; IPTx110 Compression

Approved Manufacturers:

- 1) Mueller #B-25028N
- 2) AY McDonald #74704BQ
- 3) Jones #E-J1935SG
- 4) Cambridge Brass #301NL series
- 5) Ford #FB1100-Q-NL



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Approved Materials List

b. Angle Meter Stops

1-inch; 110 Compression x Swivel

Approved Manufacturers:

- 1) Mueller #B-24258N-1 (no lip on swivel)
- 2) Ford #BA43-444W-Q-NL
- 3) Jones #J1963WSG
- 4) AY McDonald #74602BQ
- 5) Cambridge #210NL-H4T4

1½-inch; 110 Compression x Flange

Approved Manufacturers:

- 1) Mueller #B-24276N
- 2) Ford #BFA43-666W-Q-NL
- 3) Jones #J1975WSG
- 4) AY McDonald #74602BQ
- 5) Cambridge #210NL-H6MF6

2-inch; 110 Compression x Flange

Approved Manufacturers:

- 1) Mueller #B-24276N
- 2) Ford #BFA43-777W-Q-NL
- 3) Jones #J1975WSG
- 4) AY McDonald #74602BQ
- 5) Cambridge #210NL-H7MF7

c. Ball Valves, Brass, for Meters Only

1-inch, 1½-inch and 2-inch (all to be lever handle, with no lip on swivel)

Approved Manufacturers:

- 1) Mueller B-24351N-1
- 2) AY McDonald #76101MW/SHDLB
- 3) Cambridge # 212NL Series
- 4) Ford #B13-444W HB-34S-NL (1"), #B13-666W HB-67S-NL (1 ½"), #13-777W HB-67S-NL (2")



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Approved Materials List

d. Service Saddles

For 12-inch pipe and smaller, copper alloy body and double strapped bronze

Approved Manufacturers:

- 1) Jones J-979
- 2) AY McDonald 3826
- 3) Mueller BR2-B
- 4) Ford 202B
- 5) Smith-Blair 232
- 6) Cambridge Brass 810
- 7) Romac 202NS

For 18-inch pipe and larger, ductile iron service saddle epoxy coated or copper alloy body with triple stainless steel straps or extra wide single strapped stainless steel.

Approved Manufacturers:

- 1) Mueller DR2S
- 2) AY McDonald 4856A
- 3) Smith-Blair 366
- 4) Romac 202NS
- 5) Ford FC202
- 6) Power Seal

e. Straight Couplings

Approved Manufacturers:

1-inch; 110 Compression

- 1) Mueller H-15403N
- 2) AY McDonald 74758Q
- 3) Jones J-2609SG
- 4) Cambridge 119NL-H4H4

1½-inch; 110 Compression

- 1) Mueller H-15403N
- 2) AY McDonald 74758Q



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Approved Materials List

- 3) Jones J-2609SG
 - 4) Cambridge 119NL-H6H6
- 2-inch; 110 Compression
- Approved Manufacturers:
- 1) Mueller H-15403N
 - 2) AY McDonald 74758Q
 - 3) Jones J-2609SG
 - 4) Cambridge 119NL-H7H7

C. METER BOXES

- a. Meter Boxes for 1-inch, 1 1/2-inch, and 2-inch Service Lines (Non-traffic Areas)
Approved Manufacturers:
 - 1) DFW Plastics Inc.
 - a) Lid: DFW1640C-4 914P "CVWD" LID
 - b. Box: DFW1640C-12-BODY
- b) Meter Boxes for 1-inch, 1½-inch and 2-inch Lines (Traffic Areas)
Approved Manufacturers:
 - 1) DFW Plastics Inc.
 - a) Lid: DFW1640C-4 "CVWD" LID
 - b) Box: DFW1640C-12-BODY

D. COMMERCIAL METER – WELLS & BOOSTER STATIONS

- Approved Manufacturers:
- 1) Krohne Enviromag Electromagnetic Flow Meter OPTIFLUX 2000
 - 2) Endress Hauser Proline Promag W 400
 - 3) McCrometer Ultra Mag

E. CONSTRUCTION METER

- Approved Manufacturers:
- 1) Sensus #125
 - 2) Performance Meter
 - 3) Badger



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Approved Materials List

F. FIRE HYDRANTS

a. Wet Barrel-Bronze Fire Hydrants

Approved Manufacturers:

- 1) James Jones #J-3765
- 2) Mc Wane/Clow #2060
- 3) American AVK Series 2464

b. Wet Barrel-Ductile Iron Fire Hydrants

Approved Manufacturers:

- 1) James Jones #J4060
- 2) Mc Wane/Clow #860
- 3) American AVK Series 2490

c. Wet Barrel - Check Valve Fire Hydrants

Approved Manufacturers:

- 1) Mc Wane/Clow #LB400
- 2) Mc Wane/Clow #LP619 – Low Profile
- 3) James Jones J-5000
- 4) Hydrant Guard HG1
- 5) Hydrant Guard HG2

G. AIR AND VACUUM RELIEF VALVES AND FITTINGS

a. 1-inch Air Relief Valves

Approved Manufacturers:

- 1) Vent-O-Mat Model 025RBX2521
- 2) ARI Model D-040-1" Threaded
- 3) ARI Model D-020 (Pressures below 20 psi)
- 4) Vent-Tech 01WTR25TCS

b. 2-inch Air Relief Valves

Approved Manufacturers:

- 1) Vent-O-Mat Model 050RBX2521
- 2) ARI Model D-40-2" Threaded
- 3) Vent-Tech 02WTR25TCS



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Approved Materials List

- c. Copper Tubing Elbows 1-inch or 2-inch Compression x FIPT
Approved Manufacturers:
 - 1) Mueller IP H-15533N
 - 2) Jones J-2621SG
 - 3) Ford L14-44-Q-NL
 - 4) AY McDonald 74779Q
 - 5) Cambridge 105NL-H4H4
- d. Copper Tubing Elbows 1-inch or 2-inch Compression x Compression
Approved Manufacturers:
 - 1) Mueller H-15526N
 - 2) Jones J-26115G
 - 3) Ford L44-77-Q-NL
 - 4) AY McDonald 74761Q
 - 5) Cambridge 105NL-H7H7
- e. Copper Tubing Ball Valve 1-inch or 2-inch
Approved Manufacturers:
 - 1) Mueller B25209N
 - 2) AY McDonald 76100Q
 - 3) Jones J-1949SG6
 - 4) Cambridge Brass 212NL-H4H4 (1 inch); 212NL-H7H7 (2 inch)
- f. Copper Tubing –Corporation Stop; 1-inch or 2-inch IPT x 110 Compression
Approved Manufacturers:
 - 1) Mueller B-25028N
 - 2) Jones E-J1935SG
 - 3) AY McDonald 746704BQ
 - 4) Cambridge Brass 301NL series
- g. Air/Vac Covers
Approved Manufacturers:
 - 1) Armorcast
P6002001B-SND; 24-inch round x 24-inch deep



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Approved Materials List

P6002002B-SND; 20-inch round x 24-inch deep

P6002003B-SND; 12-inch round x 24-inch deep

2) Pipeline Products Advantage Series (Added by Application #44)

VCAS-1424-SM SANDSTONE

VCAS-1830-SM SANDSTONE

VCAS-2436-SM SANDSTONE

h. Threaded Red Brass Fittings

- 1) Per ASTM B43 and containing a maximum of 0.25% lead

H. PIPE

a. Ductile Iron Pipe

Approved Manufacturers:

- 1) U.S. Pipe
- 2) Mc Wane/Pacific States
- 3) American Cast Iron Pipe Company

b. Ductile Iron Zinc Coated Pipe

Approved Manufacturers:

- 1) U.S. Pipe
- 2) Mc Wane/Pacific States
- 3) American Cast Iron Pipe Company

c. PVC – C909 CL 235 psi (8 – 12 inch diameter)

PVC – C909 CL 165 psi (16 inch diameter)

- 1) JM Eagle
- 2) Westlake Pipe & Fittings Corporation

d. PVC – C905 DR25 CL 165 psi (18 – 30 inch diameter)

Approved Manufacturers:

- 1) JM Eagle
- 3) Westlake Pipe & Fittings Corporation



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Approved Materials List

- e. Polyethylene Encasement (for Ductile Iron Pipe)
 - 1) V-Bio Enhanced Polyethylene (developed by DIPRA)

I. PIPE FITTINGS

- a. Flanged to Mechanical Joint Pipe adaptors (Ductile Iron)
Approved Manufacturers:
 - 1) U.S. Pipe
 - 2) Tyler Union
 - 3) Star
 - 4) Sigma
 - 5) SIP Industries (ARC Zinc Coating Optional)
- b. Pipe Restraints - Tyton Joint Restraining Gaskets (18 inches or smaller)
Approved Manufacturers:
 - 1) U.S. Pipe - Field Lok Gaskets
 - 2) Pacific States - Sure Stop 350
 - 3) Romac – Piranha Restraint Gasket
 - 4) Tyler Union - Sure Stop 350
 - 5) American Ductile Iron Pipe – Fast-Grip Gaskets
- c. Pipe Restraints - MJ Restraint Joints with wedge-action cleats
Approved Manufacturers:
 - 1) EBAA Iron – Megalug
 - 2) EBAA Iron – 19MJG00
 - 3) Ford - Uniflange
 - 4) Star – Stargrip and 3000 series for DIP and 4000 series for PVC
 - 5) Romac - Romagrip
 - 6) Sigma – Onelok
 - 7) Tyler Union – TUF Grip Series 1500
 - 8) SIP Industries - EZ Grip



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Approved Materials List

d. Pipe Restraints - Manufactured Self Restraining Joints

Approved Manufacturers:

- 1) U.S. Pipe - TR Flex
- 2) Mc Wane/Pacific States – Thrust Lock
- 3) Romac – Alpha Restraint Coupling
- 4) Tyler Union - TUF Grip Series 200
- 5) EBAA Iron – 1900 Restraint Harness
- 6) And the equivalent of American

e. Flexible Expansion Joints

Approved Manufacturers:

- 1) EBBA Flex Tend #408F21 (8-inch only)
- 2) Star #SFPJ5008
- 3) Romac – Flexijoint

f. Repair Coupling

Approved Manufacturers:

- 1) PowerSeal – Power Clamp, 3506 Powermax Cast Coupling, and 3490 Power Sleeve
- 2) Smith Blair – Top bolt repair coupling
- 3) Romac – Macro Coupling, 501 and XR501 Coupling
- 4) Hymax 2 or Hymax Grip (restraint)

g. Flange Gaskets

Approved Manufacturers:

- 1) 1/16-inch Thick Laminated Nonasbestos Fiber, Cranite

h. Victaulic couplings and fitting for grooved end pipe

Approved Manufacturers:

- 1) Victaulic QuickVic Couplings 107N and 117N
- 2) AGS W07 and W77 Couplings

J. VALVES

a. Gate Valves (Ductile Iron Body with Resilient Seal and Flanged Only)



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Approved Materials List

Approved Manufacturers:

- 1) American Flow 2500-1
- 2) Mueller 2362 Series
- 3) Clow F61
- 4) American AVK Series 45 & 55

b. Butterfly Valves (Ductile Iron Body and Flanged Only)

Approved Manufacturers:

- 1) Mueller Lineseal III
- 2) Mueller Lineseal XP11
- 3) Dezurik
- 4) Pratt
 - a. Groundhog (150B – Buried Application)
 - b. 2F11 (150B – Aboveground Application)
 - c. HP25011 (250B – Buried or Aboveground Application)

c. Reduced Pressure Principle Valves

Approved Manufacturers:

- 1) Apollo Valves 1" RPLF 4A
- 2) Apollo Valves 2" RPLF 4A
- 3) Apollo Valves RPDA 4ALF
- 4) Wilkins Backflow – 1" 975XL-2
- 5) Wilkins Backflow – 2" 975XL-2
- 6) Febco – 1" LF825Y
- 7) Febco – 2" LF825Y

d. Double Check Valves

Approved Manufacturers:

- 1) Wilkins Backflow -1" 950XL-2
- 2) Wilkins Backflow -2" 950XL-2
- 3) Apollo Valves - 1" DCLF 4A
- 4) Apollo Valves - 2" DCLF 4A
- 5) Apollo Valves DCDA 4ALF - 4"-12"



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Approved Materials List

6) Apollo Valves DCDA 4nALF - 4"-12"

7) Febco – LF876V 4"-10"

e. Valve Locking Devices (for Gate Valves)

Approved Manufacturers:

1) Protech (for gate valves)

A1200

A2400

A3600

A4800

2) Protech (for butterfly valves)

B1200

B2400

B3600

B4800

f. Valve Wells Frame & Lid

Approved Manufacturers:

1) Bingham and Taylor Mark V

a. Base - GRE10RTF

b. Triangular Lid Water - CUL10LTCVWD-W

c. Triangular Lid Reclaimed Water - CUL10LTCVWD-RW

d. Triangular Lid Locking – I10LTIRWD-RW

2) South Bay Foundry

a. Base – BM00-R1

b. Triangular Lid Water – BM00-01

c. Triangular Lid Irrigation – BM00-02

d. Triangular Lid Reclaimed Water – BM00-03

3) SIP Industries (No locking accessories)

a. Base – M-9009

b. Triangular Lid Water (Yellow) – 2871W

c. Triangular Lid Sewer (Green) – 2871SW



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- d. Triangular Lid Reclaimed Water (Purple) – 2871CVWD
- e. Triangular Lid Irrigation (White) – 2871White
- g. Valve Well Riser
 - 1) 8-inch PVC C-900 CL-150
- h. Protective Coatings
 - Approved Manufacturers:
 - 1) Polyethylene Wrap – V-Bio Enhanced Polyethylene (developed by DIPRA)
 - 2) NO-OX-ID manufactured by SanChem, Inc.
 - 3) Bituminous Tar Mastic – manufactured by Christy's HD-50
 - 4) Anti-Corrosion Wax Tape

K. WATER SUPPLY WELLS

Approved Manufacturers or approved equal:

- 1) Well Screen
 - a. Roscoe Moss Company
- 2) Filter Gravel
 - a. Colorado Silica Sand Inc.
 - b. Tacna Sand and Gravel LLC
- 3) Motor Assembly
 - a. General Electric, U.S. Motors
 - b. Newman

L. CONCRETE VAULTS

- 1) 200 Series Vaults:
 - Approved Manufacturers:
 - f. Jensens #K3048-FH45-27T (BR200-CVWD2)
 - g. J&R Concrete #3500-IW
- 2) 400 Series Vaults:
 - Approved Manufacturers:
 - a. Jensens #K3660-FH45-27T (BR400-CVW2)



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Approved Materials List

- b. J&R Concrete #2640-IW
- 3) 500 Series Vaults:
 - Approved Manufacturers:
 - a. Jensens #K466-FH45-27T (BR500-CVW2)
 - b. J&R Concrete #4660-IW
- 4) Confined Space Mounts
 - Approved Manufacturers:
 - a. Tuff Built Davit Mount (30033 and 30053)

M. PIPE SPACERS

Approved Manufacturers:

- 1) Cascade CCS series
- 2) CCI Pipeline Systems
- 3) BWM
- 4) Calpico Inc.

N. UTILITY MARKER POSTS

Approved Manufacturers:

- 1) Flexstake, Inc. (No. EZWC206W – white with reflective strip)

O. TRACER WIRE

Approved Manufacturers:

- 1) Copperhead
- 2) NEPTCO

P. ABOVEGROUND PIPELINE COATINGS

Approved Epoxy Manufacturer:

- 1) Devoe Coatings – Bar-Rust 233H

Approved Paint Manufacturer:

- 1) Vista Paint – Color: Mission Beige – VP43-12124-70P



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

SANITATION (WASTEWATER)

A. AIR-VAC VALVES

Approved Manufacturers

- 1) Vent-O-Mat Model 050RGX1021S4
- 2) ARI-D-025 Model D-025TP02LP

B. WET WELL COATINGS

Approved Manufacturers:

- 1) Sancon Epoxy 100
- 2) Kopper's Bitumastic 300-M
- 3) Engard 463
- 4) Zebron
- 5) Armorock

C. MID-RANGE PIPE LOCATORS

Approved Manufacturers

- 1) 3M Electrical Products Division
- 2) Scotchmark Market Locator (EMS) #1258

D. UTILITY MARKER POSTS

Approved Manufacturers

- 1) Flexstake, Inc. (No. EZWC206W – white with reflective strip)

E. PAINTING AND COATING

Approved Protective Coating Manufacturers or approved equal:

- 1) PPG Protective and Marine Coatings
- 2) Carboline Company
- 3) Tnemec Company
- 4) Sauereisen SewerGard 210

F. SANITARY SEWER SYSTEM TESTING

Approved Manufacturers or approved equal:

- 1) Manhole Vacuum Testing Plugs and Test Heads
 - a. Lansas



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

- 2) Deflection Test Mandrel
 - a. Hurco

G. CURED-IN-PLACE PIPE

Approved Liner Manufacturers or approved equal:

- 1) Inliner Technologies, LLC.
- 2) Insituform as manufactured by Insituform of North America, Inc.
- 3) Sancon Engineering CIPP.

H. MANHOLES AND PRECAST VAULTS

Approved Manufacturers or approved equal:

- 1) Sealing Compound
 - a. Kent-Seal No. 2 – Hamilton Kent Manufacturing Company
 - b. Ram-Nek – Henry Sealants
- 2) Joint Wrap
 - a. Rub'R-Nek – Henry Company
 - b. Seal Wrap – Sealing Systems, Inc.
 - c. StopAQ EZ Wrap – Armcorr, Inc.
- 3) Precast Concrete Vault
 - a. Brooks Series 500 Quickset
- 4) Confined Space Mounts
 - a. Tuff Built Davit Mount (30033 and 30053)
- 5) Manhole Frames and Covers
 - a. South Bay Foundry #1253/A1254 "CVWD SEWER"
 - b. Alhambra Foundry Co. (48-Inch Diameter Manholes)
 - i. #A-1254 (Standard), A-1254B (Sealed)
 - c. Alhambra Foundry Co. (60 and 72-Inch Diameter Manholes)
 - i. #A-1325 (Standard), A-1251 B-6 (Sealed)
 - d. National Casting Corp. #NC-253: CVWD Sewer-24"
 - e. National Casting Corp. #NC-2531: CVWD Sewer-36"
 - f. ej 2600 Series Composite Cover and Frame: CVWD Sewer-24"



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

- i. Part #: COM260210 (Frame), COM260249 (Cover)
- 6) Manhole Linings
 - a. Epoxy Lining
 - i. Raven Lining System 405FS
 - ii. Quadex Structure Guard
 - b. Polyurethane Lining
 - i. Sancon 100
 - ii. Zebron
 - c. Precast Vault Polyurethane Lining
 - i. Sancon 100
 - ii. Zebron
 - d. Precast Concrete Vault Interior Coating
 - i. Sancon 100
 - e. Structural Rehabilitation
 - i. Armorock polymer concrete manhole or insert

I. CONNECTION TO SANITARY SEWER SYSTEM

Approved Manufacturers or approved equal:

Connection to Existing VCP Main

- 1) New VCP Main
 - a. Mission Flex-seal adjustable repair couplings
 - b. Fernco Strong Back RC 1001
- 2) New PVC Main
 - a. Mission Flex-seal adjustable repair couplings
 - b. Fernco Strong Back RC 1002
- 3) New FRP Main
 - a. Adapter coupling (plain ends) provided by FRP pipe manufacturer

Existing Sewer Manhole

- 4) New PVC Main



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

- a. Water stop grouting ring
 - i. A-Lok Water Stop
 - ii. Kor-N-Seal Water Stop Grout Ring
 - b. Flexible style water stop connectors
 - i. Kor-N-Seal 106-406 Series
- 5) New FRP Main
- a. Connection to existing manholes
 - i. Kor-N-Seal 106-406 Series
 - ii. Flexible Connector
 - b. New PVC Main
 - i. A-Lock Z-Lock
 - ii. Flexible Style Water Stop Connectors

J. FLEXIBLE PIPE COUPLINGS

Approved Manufacturers or approved equal:

- 1) Joints Calder Repair
- 2) Fernco Adapter
- 3) Max Adaptor Coupling

K. ECCENTRIC PLUG VALVES (Flanged Only)

- 1) DeZurik Series 100 PEC
- 2) Henry/Pratt Company Model 601
- 3) Crispin K-flow
 - a. 800 Series for 2 ½" – 12"
 - b. 900 Series for 14" – 18"
- 4) McWane MPI - EPV
- 5) Plug valve Exterior Coating
 - a. Scotchkote 206N, Valspar Pipe Clad 1500
 - b. AkzoNobel Resicoat Single Layer



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

L. CHECK VALVES (Flanged Only)

Approved Manufacturer:

- 1) Val-Matic Surgebuster Check Valve

M. PVC PIPE FOR SANITARY SEWER

Approved Manufacturers or approved equal:

- 1) PVC Pipe
 - a. JM Eagle
 - b. Westlake Pipe & Fittings Corporation
 - c. Vinyltech Corporation
- 2) Pipe fittings
 - a. HARCO Fittings

N. DUCTILE IRON PIPE

Approved Manufacturers or approved equal:

- 1) Ductile Iron Pipe
 - a. U.S. Pipe
 - b. McWane Ductile
 - c. American Cast Iron Pipe Company
- 2) Restrained Joints
 - a. Flex Ring by American Cast Iron Pipe
 - b. TR-Flex by U.S. Pipe
 - c. McWane Ductile
- 3) Mechanical Joint Restraint Systems
 - a. Ebba Iron – Megalug
 - b. Ford – Uniflange
 - c. Star – Stargrip and 3000 series for DIP and 4000 series for PVC
 - d. Romac – Romagrip
 - e. Sigma – Onelok
 - f. Tyler Union – TUF Grip Series 1500
 - g. SIP Industries – EZ Grip



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

- 4) Gaskets – Flanged Joints
 - a. Garlock
 - b. Klinger
 - c. Teadit
 - d. Cranite
 - e. U.S. Pipe
- 5) Flanged Fittings
 - a. American Cast Iron Pipe
 - b. McWane Ductile
 - c. Sigma
 - d. SIP Industries
 - e. Star Pipe Products
 - f. Tyler
 - g. U.S. Pipe
- 6) Grooved-end Fittings and Couplings
 - a. Victaulic Company of America
 - b. Mueller/Anvil, Grivlok brand
 - c. TYCO Grinnell
- 7) Ceramic Epoxy Lining
 - a. Protecto 401 Ceramic Epoxy Liner
- 8) Fusion Bonded Epoxy Lining and Coating
 - 100% Powder Epoxy
 - a. 3M Scotchkote 206N
 - b. Valspar Pipe Clad 1500
 - c. Akzo Nobel Resicoat Single Layer Liquid Epoxy
 - d. 3M Scotchkote 309
- 9) Service Saddle
 - a. Mueller
 - b. Jones



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

O. VITRIFIED CLAY PIPE SANITARY SEWER

Approved Manufacturers or approved equal:

- 1) Gladding McBean
- 2) Pacific Clay
- 3) Mission Clay Products
- 4) Epoxy Resin
 - a. Epibond 157, Furane Plastics Inc.
 - b. WR633 A&B, Wyndham Chemicals Inc.
 - c. EPON 828, Shell Chemical Corporation
- 5) Joints
 - a. "Wedgelock" or "Speed-Seal"

P. FIBERGLASS REINFORCED SEWER PIPE

Approved Manufacturers or approved equal:

- 1) HOBAS Pipe USA
- 2) Thompson Pipe Group – Flowtite

Q. PVC SEWER FORCE MAIN

Approved Manufacturers or approved equal:

- 1) PVC Pipe – C900 DR-14 CL 305 psi (8 – 12-inch diameter)
 - a. CertainTeed Corporation
 - b. Diamond Plastics Corporation
 - c. Ipex, Inc.
 - d. Westlake Pipe & Fittings Corporation
 - e. Vinyltech Corporation
- 2) Pipe and Couplings
 - a. Series 1350 Uni-Flange
 - b. Star Pipe Products Series 1100
 - c. EBBA Iron MEGALUG
 - d. Uni-Flange Series 1300



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

- 3) Tracer Wire
 - a. Copperhead
 - b. NEPTCO
- 4) Electronic Marker System (EMS)
 - a. 3M Electrical Products Division
 - b. Scotchmark Market locator Model No. 1258

R. HDPE PIPE FOR SEWER FORCE MAINS

Approved Manufacturers or approved equal:

- 1) HDPE pressure pipe
 - a. JM Eagle
 - b. Performance Pipe
- 2) HDPE fittings
 - a. ISCO Industries
 - b. Performance Pipe
 - c. Plasson USA
- 3) Tracer Wire
 - a. Copperhead
 - b. NEPTCO
- 4) HDPE EMS Markers
 - a. 3M Electrical Products Division
 - b. Scotchmark Market Locator Model No. 1258

S. SEWER CLEAN-OUTS

- 1) Frame and Cover
 - a. Alhambra - A1240
 - b. South Bay Foundry – B1240
- 2) Adjustable Clean-Out – Finish Line 834 Series
- 3) Mid-Range Pipe Locators
 - a. 3M Electrical Products Division
 - b. Scotchmark Market Locator Model no. 1258



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

T. HOUSE LATERALS

Approved Materials

- 1) Connections to Sewer Mains
 - a. PVC gasketed fittings – HARCO Fittings, or equal.
- 2) Inserta Wye
 - a. Inserta Tee, or equal.
- 3) Saddle Wye
 - a. Flexible Saddle Wye – Ferguson Flexible Tap, or equal
 - b. PVC Saddle Wye – HARCO Fittings, or equal
 - c. FRP saddle wye with Section 33 31 15
- 4) Laterals Unconnected to Dwelling Units
 - a. Carsonite Utility Marker
- 5) Mid-Range Pipe Locators
 - a. 3M Electrical Products Division
 - b. Scotchmark market Locator Model No. 1258



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

IRRIGATION (Canal Water)

A. PIPELINE MATERIALS

Approved Materials

- a. PVC – C905 DR25 CL 165 psi (18 – 42 inch diameter)

Approved Manufacturers:

- 1) JM Eagle
- 2) Westlake Pipe & Fittings Corporation

- b. PVC – C909 CL 235 psi (8 – 12 inch diameter)

PVC – C909 CL 165 psi (16 inch diameter)

Approved Manufacturers:

- 1) JM Eagle
- 2) Westlake Pipe & Fittings Corporation

- c. Ductile Iron Pipe (42 inch diameter and greater)

Approved Manufacturers:

- 1) U.S. Pipe
- 2) Mc Wane
- 3) American CI

- d. CML&C Pipe (42 inch diameter and greater)

Approved Manufacturers:

- 1) Northwest Pipe Company
- 2) Thompson Pipe Group

- e. HDPE Pipe – (bypass setup only)

Approved Manufacturers:

- 1) JM Eagle
- 2) WL Plastic
- 3) ISCO
- 4) Integrity Fusion
- 5) Performance Pipe



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

f. HDPE fittings – (bypass setup only)

- 1) ISCO Industries
- 2) Performance Pipe
- 3) Plasson USA

B. FLOW METER

Approved Manufacturers (DC Power Source)

- 1) Water Specialties Model ML-04-D with Flow-Com Digital Register
- 2) McCrometer Model SW500 with Flow-Com Remote Read Digital Register
- 3) McCrometer UltraMag Model UM06 Electromagnetic Flow Meter (Battery Powered)

Approved Manufacturers (AC Power Source)

- 1) Krohne Enviromag Electromagnetic Flow Meter

C. BALLCENTRIC PLUG VALVE (Flanged Only)

Approved Manufacturers

- 1) Dezuric Series 100
- 2) Pratt/Milliken Model 601
- 3) Crispin K-Flo Model Number:
800 Series 2-1/2" – 12"
900 Series 14" – 48"

D. VAULTS

Approved Manufacturers

- 1) Jensen
- 2) J&R Concrete Products Inc.
- 3) Olson Precast
- 4) Oldcastle Precast
- 5) Confined Space Mounts
 - a. Tuff Built Davit Mount (30033 and 30053)



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

E. PIPE CONNECTOR

Approved Manufacturers

- 1) Weko-Seal: An internal joint sealing technology used to eliminate infiltration/exfiltration in piping ranging in sizes from 18" through 96"
- 2) Joints Coupling – Calder Style with stainless steel shear band

F. AIR-VAC VALVES

Approved Manufacturers

- 1) ARI – D-025 (0.75 – 150 PSI)
- 2) ARI – D-020 (0.75 – 250 PSI)
- 3) Vent-O-Mat

G. CORPORATION STOPS

Approved Manufacturers

- 1) Mueller – Model B-25028N
- 2) Mueller – Model H-9969N
- 3) Jones – Model E-J1935SG
- 4) AY McDonald – Model 746704BQ
- 5) Cambridge Brass – Model 301NL series
- 6) Or approved equal

H. UTILITY MARKER POSTS

Approved Manufacturers

- 7) Flexstake, Inc. (No. EZWC206W – white with reflective strip)

I. TRACER WIRE

Approved Manufacturers:

- 1) Copperhead
- 2) NEPTCO



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

ELECTRICAL AND TELEMETRY

A. EMERGENCY ELECTRIC GENERATING SYSTEMS (GENERATORS)

Approved Manufacturers

- 1) Caterpillar
- 2) Cummins

a. PORTABLE GENERATOR - QUICK CONNECT RECEPTACLES

Approved Manufacturers

- 1) Appleton – ADJA20044-200

B. MOTOR CONTROL CENTERS (MCC) & SWITCHGEAR

Approved Manufacturers

- 1) ABB
- 2) General Electric
- 3) Siemens
- 4) Allen Bradley
- 5) Eaton
- 6) Schneider Electric (Square D)

C. VALVE ACTUATORS (MOV)

Approved Manufacturers

- 1) Auma
- 2) EIM
- 3) Rotork
- 4) Beck

D. PROGRAMABLE LOGIC CONTROLLERS (PLC)

Approved Manufacturers

- 1) Emerson PAC Systems RX3i CPE-xxx series
- 2) Emerson PAC Systems RSTi-EP CPE-xxx series



COACHELLA VALLEY WATER DISTRICT

Approved Materials List

E. VARIABLE FREQUENCY DRIVES (VFD)

Approved Manufacturers

- 1) US Drives
- 2) Eaton
- 3) ABB
- 4) Fuji

F. ETHERNET COMMUNICATIONS RADIO

Approved Manufacturers

- 1) GE MDS Orbit (Licensed Narrowband 896-960 MHz)
MXNXL9CNNNNNS3FEDUNN
- 2) GE MDS Orbit (High Performance Unlicensed 900MHz)
MXNXU91NNNNNS3FEDUNN
- 3) RAD Data Communications #AIRMUX-400A/ODU/F58F/500M/INT