



**MISSION SPRINGS WATER DISTRICT  
APPROVED MATERIALS LIST  
(Capital and Developer Projects)**

**MISSION SPRINGS WATER DISTRICT  
66575 2ND STREET  
DESERT HOT SPRINGS, CA 92240  
WWW.MSWD.ORG**

**UPDATED  
FEBRUARY, 2024**



***APPROVED MATERIAL LIST (AML) FOR CONSTRUCTION OF DISTRICT WATER AND SEWER FACILITIES***

**\*\*\*DIRECTIONS FOR COMPLETING THE AML\*\*\***

1. Complete **ALL** pages of this document. Note “N/A” if an item or sheet does not pertain to the project.
2. Provide separate shop drawings/ cut sheets for **ALL** items not listed on the AML.
3. Submit the completed AML by email to [engineering@mswd.org](mailto:engineering@mswd.org).

Project Name:	
MSWD Job #:	
Submittal #:	
Supplier Name:	
Contractor:	
Contractor Contact Person:	
Phone:	
Contractor email:	

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***FOR MSWD USE ONLY***

<b><u>MISSION SPRINGS WATER DISTRICT</u></b>	
REVIEWED BY:	_____
APPROVED BY:	_____
DATE:	_____
<b><u>COMMENTS</u></b>	
_____	
_____	
_____	



**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION A: PIPE (Continued)**

**A-05: Brass Pipe**

- 1. 3/4" – 2" Red Hard Brass per  
ASTM-B43 Std. Wt.

Bridgeport  
Merit Brass  
Mueller Company

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**A-06: Standard Galvanized**

- 1. 1" Schedule 40 per ASTM-A53F

Frontier  
Stockton Pipe  
Grinnell

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- 2. 2" Schedule 40 per ASTM-  
A53F

Frontier  
Stockton Pipe  
Grinnell

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**A-07: Standard Wt. Black**

- 1. Pipe Schedule 40 per ASTM-  
A53A

Frontier  
Kelly Pipe

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**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**B-04: Brass Ball Valves and Gate Valves**

1. 3/4" – 2 1/2" Ball Valve Domestic – 1/4 turn	Nibco Apollo	<u>T585-70</u> <u>77C-104-01</u>
2. 3/4" – 2 1/2" Gate Valve Domestic	Nibco	<u>T113</u>
3. 3/4" full port, tapped ball valve for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>
4. 1" fill port, tapped ball valve for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>
5. 1 1/2" full port, tapped ball valves for backflow assemblies (Made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>
6. 2" fill port, tapped ball valves for backflow assemblies (made for Febco Watts, Hersey, or Zurn Wilkins)		<u>601-QT</u>

**B-05: Flap Valve**

Clow Valve Co.

F3012

**DESCRIPTION****MANUF./SUPPLIER****MODEL NUMBER****SECTION C: BRONZE SERVICE VALVES****C-01: 1" Corporation Stop**

1. Ball Style – IPT Inlet X CTS Compression	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>FB-1100-4Q-NL</u> <u>J-1935-SG-NL</u> <u>B-25028N</u>
2. Ball Style – MIPT Inlet x MIPT Outlet	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>FB500-4-NL</u> <u>J-1943-NL</u> <u>B-20013N</u>

**C-02: 2" Corporation Stop**

1. Ball Style – IPT Inlet X CTS Compression	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>FB-1100-7Q-NL</u> <u>J-1935-SG-NL</u> <u>B-25028N</u>
2. Ball Style – MIPT Inlet x MIPT Outlet	Ford Meter Box Jones a Mueller Brand Mueller Company Mueller Company	<u>FB-500-7-NL</u> <u>J-1943-NL</u> <u>B-2969N</u> <u>H-9969-N</u>

**C-03: 1" Curb Stop**

1. Ball Style – FIPT x FIPT with Lockwing (use T Head for Air/ vac	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>B11-444-W-NL</u> <u>J-1990-W-NL</u> <u>B-20283-N</u>
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**C-04: 2" Curb Stop**

1. Ball Style – FIPT x FIPT w/ Lockwing (use T Head for Air/ vac	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>B11-777-W-NL</u> <u>J-1900-W-NL</u> <u>B-20283N</u>
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**C-05: 1" Angle Meter Stop**

1. Ball Style – CTS Compression x Meter Swivel, full port, Lockwing	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>BA43-444-W-Q-NL</u> <u>J-1963-WSG-NL</u> <u>B-24258-1N (no lip)</u>
2. Ball Style – FIPT x Meter Swivel, full port, Lockwing (MSWD use only)	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>BA13-444W-NL</u> <u>J-1966-W-NL</u> <u>B-24265-1N (no lip)</u>

**C-06: 2" Angle Meter Stop**

1. Ball Style – CTS Compression X Meter Flange, full port Lockwing	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>BFA43-777WQ-NL</u> <u>J-1975-WSG-NL</u> <u>B-24276N</u>
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**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION C: BRONZE SERVICE VALVES (Continued)**

2. Ball Style – FIPT x Meter Flange, full port, Lockwing (MSWD use only)	Ford Meter Box Jones a Mueller Brand Mueller Company	<u>BFA13-777W-NL</u> <u>J-1974-W-NL</u> <u>B-24286N</u>
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**NOTE: Use 2" angle meter stop for all 1 1/2" water services.**

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION D: FLANGES**

All flanges shall be forged or plate steel material; 2" through 12" shall be AWWA Class E Hub or ANSI B16.5 Class 150; Flanges 16" and larger shall be Table 5 AWWA Class E Ring Flanges.

**D-01: Welded Flanges**

- |                     |  |                                  |
|---------------------|--|----------------------------------|
| 1. Raised Face      | Ameri-Forge Corp<br>Daniel Industrial<br>Hackney Flange<br>National Flange | _____<br>_____<br>_____<br>_____ |
| 2. 6 Hole FH Flange | Ameri-Forge Corp<br>Daniel Industrial<br>Hackney Flange<br>National Flange | _____<br>_____<br>_____<br>_____ |

**D-02: Reducing Flanges**

- |                |  |                                  |
|----------------|--|----------------------------------|
| 1. Raised Face | Ameri-Forge Corp<br>Daniel Industrial<br>Hackney Flange<br>National Flange | _____<br>_____<br>_____<br>_____ |
|----------------|--|----------------------------------|

**D-03: Companion Flanges**

- |              |  |                                  |
|--------------|--|----------------------------------|
| 1. Full Face | Ameri-Forge Corp<br>Daniel Industrial<br>Hackney Flange<br>National Flange | _____<br>_____<br>_____<br>_____ |
|--------------|--|----------------------------------|

**D-04: Blind Flanges**

- |                |  |                                  |
|----------------|--|----------------------------------|
| 1. Raised Face | Ameri-Forge Corp<br>Daniel Industrial<br>Hackney Flange<br>National Flange | _____<br>_____<br>_____<br>_____ |
|----------------|--|----------------------------------|

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION E: FITTINGS**

**E-01: Steel, CML/CMC 10 Ga.**

Ameron International/Ferguson \_\_\_\_\_  
Ca. Steel Industries \_\_\_\_\_  
Northwest Pipe Co. \_\_\_\_\_  
Southland Pipe Corp \_\_\_\_\_

**E-02: Steel, CML/CMC Std.**

Ameron International/Ferguson \_\_\_\_\_  
Ca. Steel Industries \_\_\_\_\_  
Northwest Pipe Co. \_\_\_\_\_  
Southland Pipe Corp \_\_\_\_\_

Ductile Iron flange fittings (Tees, elbows, crosses, adapters, etc.) shall be ductile iron per ASTM A536 in accordance with ANSI/AWWA C110/A21.10 AND ANSI B16.1 Class 125 Flanges. Flanged fittings sizes 4" thru 48" shall be pressure rated @ 250 psi minimum. All mechanical Joint (MJ) or Tyton® interchangeability (PO, TJ, UT) shall be ductile iron per ASTM A536. Fitting 4" thru 24" shall be pressure rated @ 350 psi minimum and 36" thru 48" size shall be pressure rated @ 250 psi minimum. All fittings shall conform to either ANSI/AWWA Standard C110/A21.10 and/or ANSI/AWWA Standard C153/A21.53 (both current revisions) with cement-lining and seal coating in accordance with ANSI/AWWA C104/A21.4 unless specified otherwise.

**E-03: Ductile Iron, CML**

- 1. Flanged C110/A21.10 (Full Body, Long Lay Length) Star Pipe Products \_\_\_\_\_  
Tyler Union Pipe \_\_\_\_\_  
U.S. Pipe \_\_\_\_\_  
Sigma Corp \_\_\_\_\_
- 2. Push-on Rubber Gasket ANSI/AWWA C153/A21.53 (Compact Body) (Tyton) Star Pipe Products \_\_\_\_\_  
Tyler Union Pipe \_\_\_\_\_  
U.S. Pipe \_\_\_\_\_  
Sigma Corp \_\_\_\_\_
- 3. Ductile Iron Fabricated Pipe Spools (C115/A21.51) Cement Lined and BIT Coated Custom Pipe & Fabrication, Inc. \_\_\_\_\_  
U.S. Pipe Coupling Co. \_\_\_\_\_  
U.S. Pipe \_\_\_\_\_

**E-04: Brass (U.S. Only)**

Lee Brass \_\_\_\_\_  
Elkhart \_\_\_\_\_  
Merit Brass \_\_\_\_\_

**E-05: Galvanized (USA Made)**

Ward Mfg. \_\_\_\_\_  
Grinnell \_\_\_\_\_

**E-06: Black Steel (USA Made)**

Ward Mfg. \_\_\_\_\_  
Grinnell \_\_\_\_\_

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION F: METERS AND STRAINERS**

**F-01: Meters  
MSWD TO PURCHASE AT  
CONTRACTORS EXPENSE**

1. 3", 4", or 6"

Neptune/Ferguson

MACH 10 Ultrasonic  
Meter

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**F-02: Strainers  
MSWD TO PURCHASE AT  
CONTRACTORS EXPENSE**

1. 3", 4", or 6" – Bronze only

Neptune/Ferguson

MACH 10 Ultrasonic  
Meter

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**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION G: METER BOXES AND VAULTS**

**G-01: DFW Meter Box with Lid, 3/4" & 1" Service**

DFW  
J & R Concrete Products Inc.

DFW1324C412

**G-02: DFW Meter Box with Lid, 1 1/2" & 2" Service and Blow Off**

DFW  
J & R Concrete Products Inc.

DFWPW6C412  
W6B Series Meter Box

**G-03: Vault (w/SWF & C Armored, Plain)**

**G-04: Street Valve Box with Lid**

Brooks Products  
J & R Concrete Products Inc.  
South Bay Foundry

4TT MSWD Lid & Box  
V4-T MSWD Lid & Box

**G-05: Meter Vault, 5'-0" x5'-0" – 3", 3", or 6" meter per Std. Dwg. W-16 or W-17with U.S.F. 4' x 5' TPD, Aluminum Diamond Plate, Springs assist Parkway Cover with S.S. hardware and oversized recessed padlock hasp**

J & R Concrete Products Inc.

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION H: FIRE HYDRANTS**

Fire hydrants shall be 6" commercial hydrants only with (2) 2 1/2" nozzles and (1) 4" nozzle, 6-hol standard drill, brass caps only (applies to bronze FH) and painted safety yellow per AWWA C503 Standard, unless specified otherwise. All fire hydrant runs from the gate valve to the hydrant bury shall be restrained at all times.

**H-01: Residential (1) 2 1/2" x (1) 4" Nozzles (MSWD USE ONLY)**

1. Bronze	Jones	<u>J-3700</u>
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**H-02: Commercial (2) 2 1/2" x (1) 4" Nozzles**

1. Bronze	Jones	<u>J3765</u>
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2. Ductile (Case by case approval Only)	Jones Clow Valve Co.	<u>J4060 DI</u> <u>860 DI</u>
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**H-03: Angle Fire Plug (warf head) (MSWD USE ONLY)**

1. Bronze 4" x 2 1/2" (brass cap)	Jones	<u>J-344 HP</u>
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**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION I: HYDRANT BURY**

Buries shall be ductile iron, pressure rate @ 250 psi minimum and conform to ANSI/AWWA Standard C153/A21.53 and shall be cement line, conforming to ANSI/AWWA Standard C104/A21.4 unless otherwise specified. Inlet shall be flanged, Push-on (P.O.) or MJ with top outlet flange being 6 or 8 hole.

**NOTE: Furnish the proper length bury to accommodate a break-off or break-off check valve spool listed below maintaining compliance with height specifications.**

**I-01: Hydrant Bury**

Sigma Corp.	_____
Star Pipe Products	_____
South Bay Foundry	_____
Clow Valve Co.	_____

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION J: HYDRANT BREAK-OFF SPOOL, MSWD USE ONLY**

Fire hydrants shall be 6" commercial hydrants only with (2) 2 1/2" nozzles and (1) 4" nozzle, 6-hol standard drill, brass caps only (applies to bronze FH) and painted safety yellow per AWWA C503 Standard, unless specified otherwise. All fire hydrant runs from the gate valve to the hydrant bury shall be restrained at all times.

**NOTE: Furnish the proper length bury to accommodate a break-off or break-off check valve spool listed below maintaining compliance with height specifications.**

**J-01: Break-off Spool (MSWD USE ONLY)**

Sigma Corp.  
Star Pipe Products  
South Bay Foundry  
Clow Valve. Co

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**J-02: Break-Off Check Valve Assembly**

Clow Valve Co.

\_\_\_\_\_  
LBI 400A

DESCRIPTION

MANUF./SUPPLIER

MODEL NUMBER

**SECTION K: BACKFLOW ASSEMBLIES**

**K-01: Reduced Pressure Device**

1. ¾", 1", 1 ½", 2"	Febco Watts Febco Watts Zurn Wilkins	<u>LF825Y</u> <u>LF909</u> <u>975XL2</u>
2. 3", 4", 6", 8"	Febco Watts Zurn Wilkins	<u>LF880V</u> <u>475 DA</u>
3. Valve Setter	Febco Watts Zurn Wilkins	<u>611 FL x FL</u> <u>Model FLS</u>

**K-02: Double Check Detector Assembly**

1. 3", 4", 6", 8", 10"	Febco Watts Zurn Wilkins	<u>875V</u> <u>450 DA</u>
2. Valve Setter	Febco Watts Febco Watts Zurn Wilkins	<u>611 FL x FL</u> <u>611 MJ x FL</u> <u>Model FLS or MJFS</u>
3. 12" DCDA	AMES	<u>3000SS-OSY-CFM</u> <u>(Prior MSWD</u> <u>approval required)</u>





DESCRIPTION

MANUF./SUPPLIER

MODEL NUMBER

**SECTION M: MISCELLANEOUS BRASS (Continued)**

2. 1" Brass CTS x IPT 90°	Mueller Company Ford Meter Box	L84-44-NL
<b>M-08: Bronze Wye Strainer</b>	Febco Watts Zurn Watts	
<b>M-09: 2" Brass Domestic Plug</b>	Mueller Company Ford Meter Box	



**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION N: MISCELLANEOUS (Continued)**

- |   |  |   |
|---|--|---|
| 1. 8" diameter 20 Ga.<br>Galvanized valve can<br>24", 30", and 36" length | R-K Industries   | _____                                     |
| 2. 8" SDR-35 and 8"<br>C-900 PVC pipe cut to<br>length in field           | Vinyltech Corporation<br>JM Eagle<br>Diamond Plastics Corporation<br>PW Pipe<br>Apache | _____<br>_____<br>_____<br>_____<br>_____ |

**N-06: Valve Box Slip-can  
Extension Section  
(replacement only)**

- |   |                |                |
|---|----------------|----------------|
| 1. 8" diameter 20 Ga.<br>Galvanized split-top | R-K Industries | _____          |
| 2. Extension – 12" and<br>18" length          | R-K Industries | _____<br>_____ |

**N-07: Valve Stem Extensions**

Pipeline Products Fiberglass Tube w/coatings	_____
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**N-08: Nuts and Bolts**

Fire hydrant (FH) break-away bolts shall conform to ASTM A-307 Grade A Standard, Zinc plated and filled with 100% Silicon from the factory. Nuts shall conform to ASTM A563 and shall conform in dimensions prescribed in ANSE/ASME B18-2.2 and be Zinc plated, unless otherwise specified.
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- |  |                               |                |
|--|-------------------------------|----------------|
| 1. FH Bots Breakaway<br><br>5/8" x 2 3/4", and 3" U.S.<br>only | Nucor<br><br>Tripac Fasteners | _____<br>_____ |
| 2. FH Hex Nuts   | Nucor<br>Tripac Fasteners     | _____<br>_____ |
| 3. All other bolts (buried<br>and non-buried)                  |                               |                |

5/8" to 1 1/2" diameter – U.S. Only – Bolts shall conform to ASTM A-307 Grade A Standard, Zinc plated, 150# kits, or SAE J429, Grade 5, Zinc plated, 150# kits, unless specified otherwise.
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Nucor Tripac Fasteners	_____ _____
---------------------------	----------------

- |         |  |
|---------|--|
| 4. Nuts |  |
|---------|--|

Hex nuts shall conform to ASTM A-563 and shall conform in dimensions prescribed in ANSI/ASME B18.2.2 unless otherwise specified. Hex nuts shall be furnished Zinc plated and conform to the same grade as the bolts.
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**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION N: MISCELLANEOUS (Continued)**

	Nucor Tripac Fasteners	<hr/> <hr/>
<b>N-09: Tracing Wire (500 ft. rolls max)</b>		
1. Coated 14 gauge	N/A	<hr/> N/A
<b>N-10: Pipe Wrap</b>		
	Protecto Wrap Mueller Company	<hr/> #200A <hr/> H15533
<b>N-11: Stainless Steel Bands Band-It</b>		<hr/>
<b>N-12: Pipe Dope</b>		
	J.C. Whitlam Mfg. Select Teflon LA-CO Slic-Tite a/Teflon Hercules (Real Tuff)	<hr/> Unyte TF8 <hr/> 42019 <hr/> 15-620
<b>N-13: Bolt Anti-Seize Material</b>		
	Flo-Pro Hi-Temp Lawson Lubri-Temp Markal/E-Z Break Sanchem, Inc.	<hr/> C5-A <hr/> 19920 <hr/> 8910 <hr/> NO-OX-ID
<b>N-14: Air Valve Cover (canister)</b>		
For 1" thru 2" air valves furnish in Tan Polyethylene Construction	Pipeline Products	<hr/> VCAS-1830
<b>N-15: Air Valve Bug Screen Flow Ezy</b>		
	Ferguson	<hr/>
<b>N-16: MJ Restraints</b>		
	EBBA Iron Sales, Inc. Uni-Flange Star Pipe Products Romac Industries, Inc. Sigma Corp. Tyler Union Pipe U.S. Pipe	<hr/> <hr/> <hr/> GripRing <hr/> <hr/> <hr/> MJ Field-Lok
<b>N-17: Push-on (P.O.) Restraints</b>		
1. 1" thru 24"	U.S. Pipe	<hr/>
2. Tlok		<hr/>

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION N: MISCELLANEOUS (Continued)**

**N-18: Detectable Tape**

- 1. With all pipelines –  
Green for sewer and  
Blue for water

T-Christy  
Northtown Company

3" wide  
3" wide

**N-19: 4" thru 10" Victaulic Style  
Coupling**

\_\_\_\_\_

**N-20: Plumbing Insulation**

\_\_\_\_\_

**N-21: Blue Retro-Reflective  
Pavement Marker**

Traffic Zone Safety Warehouse  
EMEDCO  
3M

TPM-2B 4" x 4" x 3/4"  
RPM8-KIT (24)  
Series 290 4" x 4" x  
3/4"

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION O: TAPPING SLEEVES**

Tapping Sleeves shall be used for tie-in unless a “cut-in” requirement is specified and shall be full stainless steel body with stainless steel flange unless specified otherwise. Size on size hot taps not allowed. Factory Certified to 1.5 WPR (or 225 psi).

**O-01: Stainless steel full (long)  
Body with stainless steel  
Flange**

Romac Industries, Inc.	<u>SST</u>
Smith-Blair / Xylem	<u>663</u>
JCM Industries	<u>432</u>
Mueller Company	<u>H304</u>

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION P: WATER QUALITY SAMPLING STATION**

**P-01: 3/8" Brass Compression  
Adapter Male Connector  
(Std.) 3/8" Tube x 3/4"  
Pipe Thread**

\_\_\_\_\_

**P-02: Water Quality Sample  
Station Cover**

Pipeline Products

WTS 858  
\_\_\_\_\_

**P-03: 3/4" Full-Port Ball Valve  
(Untapped)**

Febco Watts  
Zurn Wilkins

\_\_\_\_\_

\_\_\_\_\_

**P-04: 1" x 3/4" Meter Adapter**

Ford Meter Box

#24  
\_\_\_\_\_

**P-05: 1" x 1/2" Brass Bushing**

\_\_\_\_\_

**P-06: 1/2" Soft Copper Tubing  
Heavy Duty**

See A-04 3

\_\_\_\_\_

**P-07: 3/4" M.P.T. x 3/4" CTS  
Adapter**

\_\_\_\_\_

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION Q: SEWER MAIN AND LATERALS**

Sewer material shall be Vitrified Clay Pipe (VCP) for mainline and laterals conforming to ASTM C700, ASTI C425, AND ASTM C301. Pipe shall be bell and spigot and/or Band-seal for 4" and 6" laterals. MAINLINE SEWER 8" and larger shall be gasketed bell and spigot. MSWD does not allow mitered joints and fittings.

**Q-01: V.C.P. Pipe and Fittings**

Mission Clay Pipe  
Gladding McBean

\_\_\_\_\_

\_\_\_\_\_

**Q-02: SDR35 PVC Sewer Pipe & Fittings (MSWD or Sewer Cleanout use only)**

Vinyltech Corporation  
JM Pipe  
Diamond  
PW Pipe  
Apache

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Q-03: Ductile Iron Pipe w/ Protecto 401 Epoxy Lining**

Pacific States  
U.S. Pipe

\_\_\_\_\_

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION R: MANHOLE FRAME AND COVER**

Submit manufacturer's cut sheets. Covers shall be traffic rated, marked with MSWD SEWER and have a closed/blind pick hole pocket per standard drawing 5-03.

**R-01: 24" Sewer Manhole**

Alhambra Foundry  
National Casting Corp  
South Bay Foundry

A1254 (MSWD Use)  
NC-257  
SBF1254 MSWD

**R-02: 24" Bolt-down Sewer Manhole**

Alhambra Foundry  
South Bay Foundry

A1254-B  
SBF1254B MSWD

**R-03: 36" Sewer Manhole**

Alhambra Foundry  
National Castings Corp  
South Bay Foundry

A1251 (MSWD Use)  
NC-250  
SBF1241

**R-04: 36" Bolt-down Sewer Manhole**

Alhambra Foundry  
South Bay Foundry

\_\_\_\_\_  
\_\_\_\_\_

**R-05: Sewer Cleanout Box & Cover**

Alhambra Foundry  
South Bay Foundry

A1241  
SBF1241

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION S: PRECAST SEWER MANHOLE**

**Submit manufacturers cut sheets and specifications for all precast manhole sections. All concrete shall be 3000 psi minimum. Un-reinforced sections to be 6" thick.**

<b>S-01: 48" Dia. Shaft Sections</b>	_____
<b>S-02: 60" Dia. Shaft Sections</b>	_____
<b>S-03: 48" x 24" Eccentric Cone Section</b>	_____
<b>S-04: 60" x 36" Eccentric Cone Section</b>	_____
<b>S-05: 24" Dia. Grade Rings</b>	_____
<b>S-06: 36" Dia. Grade Rings</b>	_____
<b>S-07: 48" x 36" Eccentric Flat Manhole Top Section</b>	_____

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION T: MISCELLANEOUS SEWER FITTINGS AND APPURTENANCES**

<b>T-01: Band Seal Couplings w/ Stainless Steel Clamps</b>		<hr/>
<b>T-02: Band Seal Cap w/ Stainless Steel Clamp</b>		<hr/>
<b>T-03: 3M Mid-Range Locator Disk</b>		<hr/>
<b>T-04: 4" or 6" Tap-N-Tee</b>	Joints Connect	<hr/>
<b>T-05: 4" or 6" V.C.P. Epoxy Wye Fittings</b>	Mission Clay Products	<hr/>
<b>T-06: Wyn-Stik Epoxy Adhesive</b>	Mission Clay Products	<u>ES-4</u>
<b>T-07: Inside Drop Bowl Assembly</b>	Reliner/Duran	<u>Type "B" size per main</u>

**DESCRIPTION**

**MANUF./SUPPLIER**

**MODEL NUMBER**

**SECTION U: MSWD PAINT SPECIFICATION**

**U-01: Fire Hydrant and Water Valve Lid and Box**

Sherwin Williams Pro-Industrial DTM Acrylic Gloss Custom Safety Yellow

SHERWIN-WILLIAMS 708R11 10/04/22  
 760-328-7671 Order# 0161709

INT/EXT ARCHITECTURAL  
 PRO INDUSTRIAL DTM ACRYLIC  
 GLOSS FM 8000XL

**CUSTOM SAFETY YELLOW**  
 CUSTOM MANUAL MATCH

CCE#COLORANT	OZ	32	64	128
W1-White	-	44	1	1
R4-New Red	-	3	-	-
Y3-Deep Gold	-	-	1	1

ONE GALLON B66Y01057 **DEEP YELLOW** 850995251

**U-02: DCDA and RP Backflow Device**

Sherwin-Williams Pro-Industrial High Performance Acrylic Gloss Custom Desert Sand-Mission Springs

SHERWIN-WILLIAMS 8511 01/06/17  
 760-360-0503 Order# 0131831

INT/EXT IND MAINT  
 PRO IND HIGH PERFORMANCE ACRYLIC  
 GLOSS IFC 8012NP

**DESERT SAND-MISSION SPRINGS**  
 CUSTOM MANUAL MATCH

CCE#COLORANT	OZ	32	64	128
B1-Black	-	12	-	-
Y3-Deep Gold	2	4	-	-
R2-Maroon	-	5	1	-

ONE GALLON B66400611 **EXTRA WHITE** 650023468

D. H. S.

**U-03: Red Valve and DCDA Handles**

Rust-Oleum Acrylic High Performance 3800 Safety Red Gloss

#454H2O Mfr. Model # 314410

Sherwin-Williams Pro-Industrial Multi-Surface Acrylic Real Red Gloss

B66T1504 SW6868

**U-04: Manhole Frame and Cover**

Rust-Oleum Acrylic Enamel High Performance 3800 Gloss Black

#454H19 Mfr. Model # 314387

Sherwin-Williams Pro-Industrial Multi-Surface Acrylic Black Magic Gloss

SW6991