

ENGINEER'S LIST OF APPROVED ITEMS
FOR USE WITH WATER DISTRIBUTION SYSTEM
DESIGN & CONSTRUCTION STANDARDS
VERSION DATE: OCTOBER 2022

EFFECTIVE: 22 OCT 2022

All Standards as Applicable - (See Water Distribution Design Standards and Construction Specifications for additional information and direction)

Mechanical Joint Solid Sleeve

Tyler Union
Star
Sigma
U.S. Pipe

Couplings

Ford	Ultra-Flex
Romac	XR501
Smith-Blair	Quantum Series
Hymax	860 Series

Standard 857 - Fire Hydrant and Lateral Hydrants

Residential

(All 1-2.5" & 1-4.5" outlet)

Clow	F-75
Clow	F-950

Commercial

(All 1-2.5" & 2-4.5" outlet)

Clow	865
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Hydrant Break-Off Check Valve Assembly

Clow	LBI 400A
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Coatings

Benjamin Moore & Co.	DTM Acrylic Gloss Enamel, M28
Kelly Moore	DTM Acrylic Gloss Enamel, 5780
Sherwin Williams	DTM Acrylic Coating, B66-100

Hydrant Break-Off Check Valve Assembly

Clow LBI 400A

Coatings

Benjamin Moore & Co. DTM Acrylic Gloss Enamel, M28
Kelly Moore DTM Acrylic Gloss Enamel, 5780
DTM Acrylic Coating, B66-100
Sherwin Williams

Standard 861 - Permanent Blow-Off

2" Brass Ball Valve (FIP X FIP)

Ford B11-777W-NL
Jones E-1900W
McDonald 76101W
Mueller B-20200N

3" Brass Ball Valve (FIP x FIP)

Watts LFB-6000
LFFBV-3C
Nibco T-FP-600A-LF

Boxes & Covers

Size	Location	Box Number	Cover Number
2" & 3"	Traffic	Christy B1324	Christy B1324-51JH
2" & 3"	Nontraffic	Christy N30	Christy N30R

Standard 862 - 8" Blow-off

2" Brass Ball Valve (FIP X FIP)

Ford B11-777W-NL
Jones E-1900W
McDonald 76101W
Mueller B-20200N

3" Brass Ball Valve

Watts LFB-6000
LFFBV-3C
Nibco T-FP-600A-LF

Boxes & Covers

Size	Location	Box Number	Cover Number
8"	Traffic	Christy B2436	Christy B2436-52JH
8"	Nontraffic	Christy N40	Christy B40-61D

Standard 863 - A, C, D - 1" & 1-1/2" Water Service Lateral for 5/8" x 3/4" & 1" Meters
Angle Meter Ball Valve - Compression x Meter Swivel Nut

Ford	BA43-342W-Q-NL- 1" x 3/4"(5/8") BA43-444W-Q-NL-1"
Jones	E-1963WSG
McDonald	74602BQ
Mueller	B-24258N

Angle Meter Ball Valve - FIP x Meter Swivel Nut

Ford	BA13-332W-NL 3/4" BA13-444W-NL 1"
Jones	1966W
McDonald	74604B
Mueller	B-24265N

Corporation Stop (AWWA/CC Taper Thread Inlet x Compression CTS)

Ford	FB1000-4-Q-NL- 1" FB1000-6-Q-NL- 1-1/2"
Jones	E-3401SG- 1" E19375SG - 1" & 1-1/2"
McDonald	74701BQ
Mueller	B-25008N

Tapping Service Saddle (AWWA/CC tap) for;

C-900 Pipe

Ford	202BS FC202 FS303
Jones	J 969 Series
McDonald	3845 3855
Mueller	DR 2 S Series BR 2 S Series
Romac	202BS 202NS
Smith-Blair	317 393

Ductile Iron Pipe

Cascade	CS22
Ford	FC202 FS303
McDonald	3825 4845A 4855A
Mueller	DR 2 S Series BR 2 S Series
Romac	202BS 202NS

Smith-Blair	317
Existing ACP	
Ford	FC202
McDonald	3825
	4845A
	4855A
Mueller	DR 2 S Series
	BR 2 S Series
Romax	202NS
Smith-Blair	317

**Meter Boxes and Covers
(MOUSE HOLES IN METER BOXES NOT ALLOWED)**

PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

*All water meter box covers shall be constructed from a traffic rated composite material with a 2” diameter bore all the way through the lid, and a 4-1/8” diameter by 5/16” deep counter-bore centered over the 2”bore to accommodate Automated Meter Reading (AMR) equipment. The bore holes shall be set toward a corner of the box in a manner that does not weaken the traffic rating. Contact the Santa Rosa Water Department if additional information is needed to comply with these requirements. Lid shall be constructed specifically for box used on.

** Cover may require field modification to accommodate AMR equipment. Contact Water Department for direction.

Service Size	Location	Box Number	Cover Number
1" x 3/4" Curb Stop in box	Non-Traffic	Christy B12	*See Note
1" x 3/4" Curb Stop in box	Traffic	Christy B1017	** See Note Solid Steel Checker Plate Flush mount
1" Curb Stop in box	Non-Traffic	Christy N30	* See Note
1" Curb Stop in box	Traffic	Christy B1324	** See Note Solid Steel Checker Plate Flush mount
1-1/2" Service Line in box	Non-Traffic	Christy N36	* See Note
1-1/2" Service Line in box	Traffic	Christy B1730	** See Note Solid Steel Checker Plate Flush mount

**Standard 864 - 1-1/2" Dual Water Service Lateral
U-Branch Assembly (Compression x MIP)**

Ford	U48-63-G-NL (7-1/2" spacing w/Grip Nut)
	U48-64-9-Q-NL (9" spacing w/Quick Nut)
Jones	E-2629SG
McDonald	708UQM
Mueller	H-15363N

Angle Meter Ball Valve (FIP x Meter Swivel Nut)

3/4" Inlet x 5/8" x 3/4" Outlet

Ford	BA13-332W-NL
Jones	E-1966W
McDonald	74604B
Mueller	B-24265N

1" Inlet x 5/8" x 3/4" Outlet

Ford	BA13-342W-NL
McDonald	74604B
Mueller	B-24265N

Angle Meter Ball Valve (Compression x Meter Swivel Nut)

3/4"

Ford	BA43-332W-Q-3/4"
Jones	E-1963WSG
McDonald	74602BQ
Mueller	B-24258N

Meter Boxes & Covers

(MOUSE HOLES IN METER BOXES NOT ALLOWED)

PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

*** Construction of service manifold shall be submitted to the Water Department for Review & Approval

Service Size	Location	Box Number	Cover Number
1-1/2" HDPE or 1" Cu	Non-Traffic	Christy N24	* See Note under Standard 863A
1-1/2" HDPE or 1" Cu	Traffic	2ea - Christy B1730 ***(one meter each box)	** See Note under Standard 863A Solid Steel Checker Plate Flush mount

Standard 865-A & 865-B- 2" Water Service Lateral for 2" or 1-1/2" Meter

2" Angle Ball Valve (FIP x Meter Flange)

Ford BFA13-777W-NI
 McDonald 74604B
 Mueller B-24286N

2" Angle Ball Valve (Compression x Meter Flange)

Jones E - 1975WSG
 McDonald 74602BQ
 Mueller B-24276N

2" Coupling (MIP x Compression)

Ford C84-77-Q-NL
 Jones E-2605SG
 McDonald 74753Q
 Mueller H-15428N

2" 90° Elbow (Compression x Compression)

Ford L44-77-Q-NL
 Jones E-2609SG
 McDonald 74758Q
 Mueller H-15403N

2" Resilient Seated Gate Valve (NPT Ends)

American Flow Control Seriel 2500-1
 AVK Series 03-NPT
 Clow F-6103
 Mueller A-2360 (Cast Iron Body)

Tapping Service Saddle

Refer to Approved List for Standard 863

Meter Boxes & Covers

(MOUSE HOLES IN METER BOXES NOT ALLOWED)

PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

Service Size	Location	Box Number	Cover Number
2" service in meter box	Non-Traffic	Christy N36 w/tier	* See Note under Standard 863A
2" service in meter box	Traffic	Christy B1730 w/tier	** See Note under Standard 863A Solid Steel Checker Plate Flush mount

Standard 866 - 4" Water Service Lateral for 3" Meter

Standard 867 - 4" Water Service Lateral for 4" Meter

Tapping Sleeves

Refer to Approved List for Standard 878

Meter Boxes & Covers

PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

*Covers have to probe hole per Standard 8633A

Service Size	Location	Box Number	Cover Number
6"	Non-Traffic	Christy N52/tier	Composite Cover supplied by Contractor per approval of Water Department
6"	Traffic	Christy N52/tier	

Standard 872 - Water Main Encasement and End Seal

Casing Spacers

Calpico Inc.	The Model M Series
Cascade	Model CCS

Standard 875 - Below Ground Double- Check Valve Backflow Device

Boxes & Covers

PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

Boxes and covers in areas where vehicular traffic may occur shall have an AASHTO H20 rating, and must be submitted to the Water Department for review and approval. Installations shall be per manufacturer's instructions with box and cover flush with surrounding grade when in the travelled way.

Backflow Size	Location	Box Number	Cover Number
3/4" & 1"	As reqd.	Christy N30	Christy N30R
6"	As reqd.	Christy N36	Christy N36R

Standard 877 - Gate Valve

Valve Box

Bes	G4
Brooks	4TT
Christy	G4

Gate Valves

Except where otherwise specified, gate valves shall be ductile iron conforming to the latest revision of AWWA Standard C-509 & 515 covering resilient gate valves. (For example: Clow, Mueller, US Pipe, American Flow Control)

Standard 878 - Butterfly Valve & Tapping

Valve

Tapping Sleeves (Stainless Steel) - 4" & larger

Size on size up to and including 8" on 8" (examples: 4" on 4", 6" on 6") and any combinations (examples: 4: on 8", 6" on 8")
DIP, CIP PVC, and Existing ACP: (Sleeve must be compatible with pipe type).

Dresser	Style 630
Ford	FTSS
JMC	415
JCM	432
Mueller	H-304
Powerseal	3490
Romac	SST111
Smith-Blair	663,664, & 665

For taps smaller than 4", see Appropriate Standard

Standard 879 - Single Check Detector Assembly in Vault

Detector Check Valve

Ames	1000 DCV
Hersey	EDC III
Hersey	EDC IV

Precast Vault & Cover

Per approval of Utilities Department

(Pedestrian Walkways must have Algrip surface)

Standard 880 - Double Check Detector Fire Line Backflow Assembly

Standard 881 - Pressure Reducing Valves

Valves

CLA-VAL	90-01
Singer	206-PRC
Watts	PV-10-01

Precast Vault and Cove

Refer to Approved List for Standard 879

Standard 882 - Surge Anticipator Valve or Pressure Relief Valve

Tapping Sleeves

Refer to Approved List for Standard 878

Utility Box and Cover (Non-traffic Loading)

Boxes & Covers

PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

Installations shall be per manufacturer's instructions with box & cover flush with surrounding grade when in the travelled way.

Box Number	Cover Number
Christy N48	Christy B48-62D

Standard 883 - Air & Vacuum / Air Release Valve

Tapping Service Saddle

Refer to Approved List for Standard 863

1" Ball Valve Curb Stop (FIP x FIP)

Ford	B11-444W-NL
Jones	E-1900W
McDonald	76101W
Mueller	B-20200N

1" Corporation Stop (AWWA/CC Taper Thread Inlet x MIP or FIP)

Ford	FB 400-4-NL FB1600-4-NL
Jones	E-45 J-51
McDonald	73128B 73148B
Mueller	B-20045N B2996N

1" 90° Brass Elbow (MIP x Compression)

Ford	L84-44-Q-NL
Jones	E-2619SG
McDonald	74779MQ
Mueller	H-15533N

Combination Valves

APCO	143C
Crispin	UL10
Valmatic	VM-201C

Above Ground Relief Pedestal

Various	TV80 Enclosure
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Bug Screen

Flow Ezy

"M8" Pipe mounted suction screen

Boxes & Covers (Non-Traffic)

PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

Boxes and covers in areas where vehicular traffic may occur shall have an AASHTO H20 rating, and must be submitted to the Water Department for review and approval. Installations shall be per manufacturer's instructions with box and cover flush with surrounding grade when in the travelled way.

Box Number	Cover Number
Christy N36	Christy N36R

Standard 884 - Water Meter for Private Non-residential Systems

3/4" Resetter

Ford VBB43-12W-NL

1" Resetter

Ford VBB44-15W-NL

Meter Boxes & Covers

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PROPOSED ALTERNATIVES CAN BE SUBMITTED IN WRITING TO THE WATER DEPARTMENT FOR REVIEW AND POSSIBLE ACCEPTANCE

Size	Location	Box Number	Cover Number
5/8" x 3/4"	Traffic	Christy B1017	Christy B1017-51GH
5/8" x 3/4"	Nontraffic	Christy B12	Christy B12C
1"	Traffic	Christy B1324	Christy B1324-51GH
1"	Nontraffic	Christy N30	Christy N30R

Standard 885 - Water Meter for Private Process and Evaporative Water Lines

5/8" x 3/4" Resetter

Ford Resetter-52-B1-NL

McDonald 740-2-MM 33

Mueller H-1412N

1"

Ford Resetter-54-NL

McDonald 740-4-MM 44

Mueller H-1412N

Standard 886 - Water Sampling Station

3/8" Stainless Steel Ball Valve

"Truline Midget"

Aluminum Cast Cabinet

Kupferle

Model 88 Ellipse

Standard 887 - 4" Ductile Iron Multi-Service Manifold

MIP x Compression Coupler 3/4", 1" & 2"

Ford	C84-33-Q-NL
	C84-44-Q-NL
	C84-77-Q-NL
Jones	E--2605SG
McDonald	74753Q
Mueller	H15428N

Tapping Service Saddles for Individual Services

Refer to Approved List for Appropriate Service Lateral Std.

Tapping Sleeves

Refer to Approved List for Standard 878.