

APPENDIX A - 3

RECLAIMED WATER
Approved Materials Checklist

PLEASE TYPE OR PRINT CLEARLY IN BLACK INK

Project Name: _____

Contract/Bid Number: _____ Work Assignment Number: _____

Contractor's Name: _____

Contractor's Address: _____

Contractor's Signature: _____

For City Use Only

(Refer to Section 01300 – Submittals)

Engineer: _____ Date: _____

Reviewed, No Comments: _____

Reviewed, Comments as Noted: _____

Reviewed, Comments Attached – Resubmit: _____

Rejected, Revise and Resubmit – Comments Attached: _____

Not Reviewed: _____

City Project Manager: _____ Date: _____

Comments:

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With the submission of this document, the CONTRACTOR understands that the use of the following selected items, as individually indicated by the use of an "X", is mandatory.

Recommendations for Approved Alternates, using other items that are not contained within this Checklist, shall be initiated and submitted by the CONTRACTOR, in accordance with Section 00800 – General Provisions, to the CITY and the ENGINEER for review and approval at least ten (10) calendar days in advance of need.

It is also understood by the CONTRACTOR that the CITY and the ENGINEER shall reject materials and products not in accordance with this Specifications and this Checklist.

Shop drawings shall be required for all structures and similar items not contained on this checklist, such as manholes, wet wells, and other castings.

Four (4) sets of the CONTRACTOR's and the ENGINEER's executed APPROVED MATERIALS CHECKLIST and any necessary shop drawings shall be submitted to the CITY and the ENGINEER for its use and approval, plus the number of sets needed for the CONTRACTOR's use.

Ordering materials and products without specific written approval from the CITY of the submitted list and shop drawings is NOT recommended and is done at the CONTRACTOR's sole expense and responsibility.

NOTE: The latest changes approved by the CITY are indicated by "underlining" and deleted items by "~~strikethroughs~~".

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Reclaimed Water Category 1 of 10: VALVES AND ACCESSORIES			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Automatic Combination Air / Vacuum Release Valves:			
	H-Tec	Model 986	
	Val-Matic	Model 80ZABW	
	Val-Matic	Model 48ABW	
Air / Vacuum Release Valve Enclosure (Horizontal Venting and Purple):			
	Water Plus	No. 40 (171730)	
	Channell	BPH 1730	
	Hydro-Guard	Safety-Guard 15100 Low Profile or 02100	
Air / Vacuum Release Valve Vault Frame And Cover:			
	US Foundry	USF-679-BK-M	
	CertainTeed	Pamrex 36"	Alternative – <u>Not to be used in paved roadways.</u>
Blow Off Valve:			
	Hydro Guard	HG-2 Low Profile	Automatic Blow Off
	Water Plus	Series VB 2000	
Gate Valves 16-inch Through 48-inch (C-515, Resilient Seated, With Side Actuators, if required):			
	American		With Romac Alpha Ends
	Mueller	A-2360	
	McWane/Clow	F-6100	
Gate Valves 4-inch Through 12-inch (C-515, Resilient Seated Only):			
	American		With Romac Alpha Ends
	Mueller	A-2360	
	McWane/Clow	F-6100	
Gate Valves 3-inch And Smaller:			
	Crane		
	Walworth		
Check Valves:			
	Kennedy		

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	Mueller		
Tapping Valves (C-515, Resilient Seated Only):			
	American Flow Control	Series 2500	
	M & H	Series 4751	
	Mueller	Series T-2360 & T-2361	
Inserta-Valves:			
	TEAM	InsertValve 4"-12"	
Test Station Box For Locate Wiring:			
	Bingham/Taylor	P200NFG2T	
Rubber Flapper Check Valves:			
	Crispen Multiplex Manufacturing	RF Series	
Valve Box With Lids (5¼ -Inch, ASTM A48 30B Heavy Duty Cast or Ductile Iron, With "WATER" cast into the lid top):			
	Tyler/Union	461-S, 462-S	Must be cast in USA

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Reclaimed Water Category 1 of 10: SERVICE MATERIALS			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Service Saddles (Bronze Body, Double Stainless Steel Straps To Be 2-inch Minimum Width Each, To Be Used On C-900 And IPS OD PVC Pipe):			
	Mueller	BR2B Series	
	Ford		
	JCM		
Corporation Stops (Ball Type, 1-inch and 2-inch with AWWA Iron Pipe Threads Only/Pack Joint Outlet For CTS):			
	Ford	FB1000	
	Mueller	P25008	
	McDonald	4701B-22	
Curb Stops Straight Valves (Curb Stop To Be Ball Type, Reduced Port FIP By FIP 3/4-inch By 3/4-inch):			
	Ford	B11-233W	
	Mueller	B-20200-R	
	McDonald	6101W	
Curb Stops Straight Valves (Ball Type Compression By Meter, 1-inch And 2-inch CTS OD Tubing By 5/8-inch By 3/4-inch Meter):			
	Ford	B43-342W, BF43-777W	
	Mueller	P24350, B24337, B24335	
	McDonald	6100MW-22	
Curb Stops Straight Valves (Ball Type Compression By Compression):			
	Ford	BA44-444W	
	Mueller	P25146	
	McDonald	6100W-22	
Polyethylene Tubing (Purple in Color with UV Protection, SDR-9, 1-inch And 2-inch Only):			
	Endot	PE-4710 EndoPure	
	Endot	PE-4710 EndoTrace	Alternative Pipe and Tracer Wire Combo
	Charter Plastics	PE-4710	
	ARNCO	PE-4710 Perma-Guard	
	ARNCO	PE-4710 Perma-Find	Alternative Pipe and Tracer Wire Combo
Meter Coupling:			

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	Ford	C38-23-25	
Y Branch (1-inch By 3/4-inch):			
	Ford	U-48-43	
	Mueller	P15363	
	McDonald	08U2M	
Cross Connection Control Assembly:			
	Wilkins		

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Reclaimed Water Category 2 of 10: PIPE MATERIAL AND ACCESSORIES			
ITEM TO BE USED	Manufacturer	Part Number	Comments
PVC Pipe (AWWA C-900, Purple in Color, DR-18):			
	Bristolpipe		
	Certainteed		Certa-Lok Only
	Diamond Plastic		
	Ipex		
	J-M Manufacturing		
	National Pipe		
	NAPCO (North American Pipe Company)		
Ductile Iron Pipe Cement Lined (4-inch To 12-inch = PC 350, 16-inch To 20-inch= PC 250, 24-inch To 64-inch = PC 200) (DI Flanges As Applicable, AWWA C115):			
	American		
	Clow		
	Griffin		
	McWane		
	US Pipe		
HDPE Pipe (DR-11, Purple Striped):			
	Driscopipe	Series 1000	
	Chevron	Plexco	
Casing Spacers (All Sizes) Stainless Steel With Vinyl Runners:			
	Cascade	Series CCS/CCPS/AZ	
	RACI	Series S/T, F/G, P/Q, M/N, E/H	
Reclaimed Water Main Identification Tape (Purple, 6-Inches Wide, 2-Inch High Black Lettering, Adhesive Backed):			
	Pro-Line		
Buried Reclaimed Water Main Warning Tape (Purple, 3-inches Wide, 1-Inch High Black Lettering, Non-Adhesive Backed):			

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	Pro-Line		
Poly Pig:			
	Girard Poly-Pig		
	Knapp Poly Pig		
Locating Wire (14-Gauge Single Strand Solid Copper Wire with Purple Colored Insulated Covering):			
	Copperhead	Reinforced Tracer Wire	
Locating Marker Systems (Reclaimed Water) (Purple In Color):			
	3M	Scotch Mark EMSII Electronic Marker Purple Locator #1265	As Required by COSU
	3M	Scotch Marker Electronic Ball Marker #1404	As Required by COSU
Curb and Pavement Markers (Purple in Color, Imprinted With The Words "CITY OF SARASOTA UTILITIES" And "CALL 811 BEFORE YOU DIG" With "RECLAIMED WATER SERVICE" or "RECLAIMED WATER VALVE" As Applicable):			
	Rhino	ATAGNCT-C (Custom Imprinting)	New Construction
	Rhino	ATAGRFT-C (Custom Imprinting)	Retrofit to Existing Improvements
	DAS Manufacturing	Reflective Duracast Style (Custom Imprinting)	New Construction or Retrofit

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Reclaimed Water Category 3 of 10: PIPE FITTINGS			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Expansion Joints:			
	EBA Iron		
	Metraflex		
	Star	Star Flex Series 5000, 5100, & 5200	
Fittings C153 SSB / C110 Flange (Cement Mortar Lined And Asphaltic Coated In Accordance With C104) (Outside Surfaces Shall Be Prime Coated Only If Located Aboveground And Painted):			
	American		
	Tyler/Union		
	US Pipe		
	Sigma		
	Star		
	SIP Industries		
Restrained Joints - Ductile Iron Pipe:			
	American	Fast Grip Gasket Flex Ring Field Flex Ring Lok Ring	
	EBA Iron Inc.	Mega-lug Series 1100 Series 1700 Bell Restrainer Series RS-3800 Restrainer - sleeve included	
	Sigma	One LOK SLD	
	Sigma	LOK Series PVP and PVPF	

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	Star	Stargrip Series 3000, 3000S, & 3000OS Series 3100S & 3100P Flange Adapter Series 200 & 400 Retainer Gland Series 600 Series 1000, 1100, & 1200 Adapter Flange Series 3200 & 4200	
Restrained Joints - PVC Pipe:			
	EBAA Iron Inc.	Mega-lug Series 2000PV Series 1500 & 1600 Bell Restrainer (4-inch to 12-inch) Series RS-3800 Restrainer – sleeve included	
	JCM	620 Sur-Grip Bell Joint 621 Sur-Grip Bell Joint	
	Uni-Flange/Ford	1350 Bell Restrainer 1360 Bell Restrainer 1390 Bell Restrainer 900 Adapter Flange 1300 Fitting Restrainer 1500 Series	
	Sigma	One LOK SLC	
	Sigma	PV LOK Series PVP and PVPF	
	Star	PVC Stargrip Series 4000 & 4000P PVC Harness Series 1000, 1100, & 1200 Adapter Flange Series 3200 & 4200 Adapter Flange Series 200 & 400	
	Tyler/Union	Tuf Grip TLD Series	For DI Pipe Use
	Tyler/Union	Tuf Grip TLP Series	For PVC Pipe Use
Tapping Sleeves (For All Taps On IPS OD PVC pipe, Including Size On Size (18-8 Type 304 Stainless Steel Body, Flange And Bolts), Flange To Accept Standard Tapping Sleeves):			
	Ford	Series FTSS	
	JCM	Model 432	
	Mueller	Series H-304 S/S	

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	Cascade	CST-EX	
Tapping Sleeves (Mechanical Joint For All Taps On Cast Iron, Ductile Iron, PVC-900 & AC Pipe, All Taps Including Size On Size):			
	American Flow Control	Series 2800	
	Mueller	Series H-615, H-616, H-619	
Tapping Sleeves (Fabricated Steel, Mechanical Joint, Fusion Bonded Epoxy Coated):			
	JCM	Series 414	
Flange Adapters:			
	Rockwell International	Type 913	
	Baker	Type 602	
	Dresser International	Type 128	
	Smith Blair	Series 900	
Anti-Seize Lubricant:			
	Never Seize		
	Bostik		

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Reclaimed Water Category 5 of 10: METALWORK			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Hatches – Gutter Type:			
	Bilco		H-20 Loading
	Halliday Products, Inc.		H-20 Loading
	Babcock-Davis		H-20 Loading
Hatch Nets:			
	Safe Approach	Hatch Net 121	
Anti-Seize Lubricant:			
	Anti-Seize Technology	Pure White	
	Dixon Ticonderoga	AS-470	
Glass Capsule Polyester Resin Adhesive Anchor:			
	Hilti HVA		
	Cobra Anchors		
Expanding-Type Anchors:			
	Trubolt Anchors	ITW Ramset/Redhead	
	McCullock Industries	Kwick-Bolt	
Impact Anchor:			
	Hilti, Inc.	Metal Hit Anchors	
	Rawlplug Company	Rawl Zamac Nailin	
Coating:			
	Sherwin-Williams	Zinc-Clad XI	
	Alvin Products	Galvax	
	ZRC Worldwide	Galvite	

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Reclaimed Water Category 6 of 10: FINISHES			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Paint:			
	Tnemec		
	Carboline		
	Ameron		
	International Coating, Inc.		
Epoxy Polyamide Filler:			
	Tnemec	54-660	
	Top Coat	Epoxy Block Filler	
	Ameron Nu-Klad	105	
	Keeler and Long	Kolor No. 3400	
Epoxy Polyamide:			
	Tnemec	66-Color H.B. Epoxoline	
	Carboline	890	
	Ameron	Amercoat	
	Keeler & Long	Kolor-Poxy Primer No. 3200	
Bond Coat:			
	Kop-Coat	Bitumastic No. 300-M	
	Keeler & Long	CT 400	
Coal Tar Epoxy:			
	Kop-Coat	Bitumastic No. 300-M	
	Keeler & Long	CT 400	
Conditioner:			
	Kop-Coat	Bitumastic 2CB	
	Keeler & Long	CT 300	
Acrylic Coating:			

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	Tnemec	Series 130-6602 Envirofill	
	Carboline	Flexxide	
	Keeler & Long	6440	
Acrylic Emulsion:			
	Tnemec	Series 180 WB Tneme-crete	
	Carboline	D3359	
	Keeler & Long	Aqua-Kolor Enamel W-2 Series	
Ferrous Metal Epoxy Polyamide Primer:			
	Tnemec	66-1211 Epoxy Primer	
	Carboline	893 Primer	
	Ameron	Amercoat 71	
	Keeler & Long	Kolor-Poxy Primer No. 3200	
Ferrous Metal Epoxy Polyamide:			
	Tnemec	66-Color H.B. Epoxoline	
	Kop-Coat	Hi-Gard Epoxy	
	Carboline	890 Epoxy	
	Keeler & Long	Kolor-Poxy Primer	
Aliphatic Polyurethane:			
	Tnemec	72-Color Endura	
	Carboline	134	
	Ameron	Amercoat	
	Keeler & Long	Acrythane Enamel	
Aliphatic Polyurethane (when using roller):			
	Tnemec	70	
	Carboline	134 (for roller)	
	Ameron	Amershield	
	Keeler & Long	Acrythane Enamel Y-1 Series	
Epoxy Polyamide:			
	Tnemec	140-1211 Porta-Pox Plus	
	Kop-Coat	340 Gold Primer	
	Carboline	187 Primer	
	Ameron	Amercoat 71	

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	Keeler & Long	Kolor-Poxy Primer No 3200	
Epoxy Amine-Cure:			
	Tnemec	104	
	Carboline	187 Finish	Use 187 primer when not using shop primer.
Galvanized Steel Coating Wash Primer and/or Epoxy Polyamide:			
	Tnemec	66-Color H.B. Epoxoline	
	Carboline	Rustbond Primer/Sealer	
	Ameron	Amchem Galvaprep, Amchem Aiodine 1200 plus Ameron Amerlock 400	On galvanized steel On aluminum
	Keeler & Long	Vinyl Butyral Wash Primer No. 7840 plus Kolor-Poxy Primer No. 3200	
Aliphatic Polyurethane:			
	Tnemec	72 Color Endura Shield 11	Gloss
	Kop-Coat		
	Carboline	Carbothane 134 H.S.	
	Ameron	Amercoat 450 GL	
	Keeler & Long	Acrythane Enamel Y-1 Series	
Aliphatic Polyurethane Gloss (when using roller):			
	Tnemec	70-Color Endura Shield	
	Kop-Coat		
	Carboline		
	Ameron	Amershield	
	Keeler & Long	Acrythane Enamel Y-1 Series	
Alternate Coating System:			
	Carboline	Galvanox Type 1	
	Keeler & Long	No. 6820	
Zinc Chromate Primer:			
	Carboline	1037WP	
	Keeler & Long	Vinyl-Butyral Wash Primer No. 7840	

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Aluminum Pigmented Epoxy Paint:			
	Carboline	Carbomastic 90	
	Keeler & Long	Kolormastic No. 1000	
Coal Tar Epoxy, High Build:			
	Tnemec	46H-413	
	Kop-Coat	Bitumastic No. 300-M	
	Ameron	Amercoat 78HB	
	Keeler & Long	CT 400	
Quality Control:			
	Tinker & Razor		
	K-D Bird Dog Holiday Detector		

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Reclaimed Water Category 7 of 10: EQUIPMENT			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Mechanical Seals:			
	John Crane	Type 128	
	Pak Seal		
	Chesterton		
Gaskets and Packings:			
	Garlock	No. 432	
	John Crane	Everseal	
Plate Thrust Bearings:			
	Kingsbury		
Centrifugal Pumps:			
	Flowserve		
Vertical Turbine Pumps:			
	Flowserve		
Pump Motors:			
	Nidec		
	Marathon Electric		
Variable Frequency Drives:			
	Allan Bradley	Powerflex 753	
	Rockwell Automation		
Tools:			
	Snap On		
	Crescent		

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	Stanley		
Annulus Fluid Expansion Tank System:			
	Hydro-Air Systems, Inc.		
Primer:			
	Koppers	Pug Primer 40 Passivator	
Coating:			
	Wisconsin Protective Coating Corporation	9051 Hi-Resistant Heavy Build Protective Coatng	

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Reclaimed Water Category 8 of 10: MECHANICAL			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Pipe Supports			
	Grinnell Corporation		
	Tolco Incorporated		
	Basic Engineers, Inc.		
	Bergen-Paterson Pipe Support Company		
	NPS Products, Inc.		
	Power Piping Company		
Magnetic Flow Meter:			
	Siemens	Model 5100W	
	Yokogawa		

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Reclaimed Water Category 9 of 10: ELECTRICAL			
ITEM TO BE USED	Manufacturer	Part Number	Comments
Fire Resistant Sealant:			
	Dow Corning Corp.	Dow Corning Fire Stop Foam	
	General Electric Co.	Pensil 851	
Liquid Tight Metal Flexible Metal Conduit:			
	Carlton	Carflex	
	Sealtite		
Conduit Bodies:			
	Appleton Electric (Division of Emerson Electric Company)		
	Arrow-Hart (Division of Crouse-Hinds Co.)		
	Bell Electric (Square D Co.)		
Wire and Cable:			
	American Wire Institute		
	Carol Cable Co. Inc.		
	Rome Wire and Cable Co.		
	Southwire Company		
	Anaconda Company		
Wire and Cable Connectors:			
	AMP		
	3M Company		
	O-Z/Gedny Co.		
Outlet Boxes:			

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	Appleton Electric (Division of Emerson Electric Company)		
	Bell Electric (Square D Co.)		
	Eagle Electric MFG Co.		
	OZ/Gedny Co.		
	Pass & Seymour		
	RACO Div; Harvey Hubbell, Inc.		
	Thomas & Betts Co.		
Junction/Pull Boxes:			
	Hoffman Enclosures		
	Appleton Electric (Division of Emerson Electric Company)		
	Arrow-Hart (Division of Crouse-Hinds Co.)		
	Bell Electric (Square D Co.)		
	Keystone Columbia Inc.		
	OZ/Gedny Co.		
	Spring City Electrical MFG Co.		
Bushings, Knockout Closures and Locknuts:			
	Arrow-Hart (Division of Crouse-Hinds Co.)		
	Appleton Electric (Division of Emerson Electric Company)		
	Midwest Electric (Cooper Industries, Inc.)		
	OZ/Gedny Co.		
	RACO Div; Harvey Hubbell, Inc.		
	Thomas & Betts Co.		

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Wiring Devices:			
	Crouse-Kinds Co.		
	Hubbell Inc.		
	Pass and Seymour		
	Slater Electric Co.		
Receptacle:			
	Leviton	5362-1 Type Duplex	
GFI:			
	Leviton	No. 6898-1	
Snap Switches:			
	Leviton	5521	
Electrical Connections:			
	AMP Incorporated		
	Appleton Electric (Division of Emerson Electric Company)		
	Arrow-Hart (Division of Crouse-Hinds Co.)		
	Burndy Corporation		
	Eagle Electric MFG Co.		
Circuit and Motor Disconnections:			
	Square D		
	Cutler-Hammer		
	General Electric Co.		
	Siemens		
Anchors:			
	Ideal Industries, Inc.		
	Joslyn Mfg and Supply Co.		
	McGraw Edison Co.		

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	U.S. Expansion Bolt Co.		
Channel Systems:			
	Allied Tube and Conduit Corp.		
	B-Line Systems, Inc.		
	Greenfield MFG Co.		
	Midland-Ross Corp.		
	OZ/Gedney Co.		
	Unistrut Div; GTE Products Corp.		
Electrical Identification			
	Alarm Supply Co.		
	Brady, W.H. Co.		
	Calpico, Inc.		
	Cole-Flex Corp.		
	Direct Safety Co.		
	George-Ingraham Corp.		
	Griffolyn Company		
	Ideal Industries, Inc.		
Metal Enclosed Load Interrupter Switchgear:			
	Square D	HVL/CC	
Medium Voltage Switchgear, Transformers, Surge Suppressors			
	Eaton-Cutler Hammer		
Buss Joints:			
	Belleville		
Ground Clamps:			
	OZ Electrical	Type CG	

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Transformers:			
	General Electric Co.		
	Hevi-Duty Electric		
	Square D		
	Eaton-Cutler Hammer		
Panelboards:			
	Cutler-Hammer		
	General Electric Co.		
	Square D		
	Siemens		
Exterior Lighting Fixtures:			
	Metalux		
	Columbia Lighting Inc.		
	Hubbell Inc.		
	Lithonia		
	Evolucia		
Surge Suppression:			
	Leviton		
	Advanced Protection Technology		
	Edco Company		

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Reclaimed Water Category 10 of 10: INSTRUMENTATION			
<i>ITEM TO BE USED</i>	Manufacturer	Part Number	Comments
Distributed Control System:			
	Centum VP	Yokogawa	