

APPENDIX A - 2

WASTEWATER

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 Committee are indicated by "underlining" and deleted items by "~~strikethroughs~~".**

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<b>Wastewater Category 1 of 10: VALVES AND ACCESSORIES</b>			
<b>ITEM TO BE USED</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Comments</b>
<b>Automatic Combination Air / Vacuum Release Valves:</b>			
	H-Tec	Model 986	
	Val-Matic	Model 38	
<b>Gate Valves 16-inch Through 48-inch (C-515, Resilient Seated, With Side Actuators, if required):</b>			
	Mueller	A-2360	Epoxy Coated
	McWane/Clow	F-6100	Epoxy Coated
<b>Gate Valves 4-inch Through 12-inch (C-515, Resilient Seated Only):</b>			
	Mueller	A-2360	Epoxy Coated
	McWane/Clow	F-6100	Epoxy Coated
<b>Check Valves:</b>			
	Kennedy		
	Mueller		
<b>Plug Valves (Full / 100% Port):</b>			
	DeZurik		
<b>Inserta-Valves:</b>			
	TEAM	InsertValve 4"-12"	
<b>Air / Vacuum Release Valve Enclosures (Medium Green):</b>			
	Water Plus Corp.	Model 131632	W/Pin Allen Type Lock
<b>Air / Vacuum Release Valve Service Saddles (Epoxy With Stainless Steel Straps):</b>			
	Mueller		
<b>Air / Vacuum Release Valve Corporation Stop:</b>			
	Mueller		Stainless Steel - Ball Type

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<b>Air / Vacuum Release Valve Curb Stop:</b>			
	Mueller		
<b>Tapping Sleeve (Fabricated Steel Mechanical Joint (Fusion Bonded)):</b>			
	JCM	Series 414	
<b>Valve Box With Lids (5¼ -Inch, ASTM A48 30B Heavy Duty Cast or Ductile Iron, With "SEWER" cast into the lid top):</b>			
	Tyler	461-S, 462-S	Must be cast in USA

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<b>Wastewater Category 2 of 10: PIPE MATERIALS AND ACCESSORIES</b>			
<b>ITEM TO BE USED</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Comments</b>
<b>PVC (Light Green) 4-inch and Larger Pipe (AWWA C-900, DR18)</b>			
	Bristolpipe		
	Certainteed	Certa-Flo Greenline	
	J-M Manufacturing		
	Ipex		
	Diamond Plastics		
	Freedom Plastics		
	National Pipe		
	NAPCO (North American Pipe Company)		
	Underground Solutions	Fusible PVC	Requires COSU Approval
<b>PVC Gravity Pipe – Mains and Services (SDR 26, Light Green In Color)</b>			
	Certainteed		
	Can-Tex		
	J-M Manufacturing		
	Diamond Plastics		
	Freedom Plastics		
	Bristolpipe		
	National Pipe		
	Vassallo		
	NAPCO (North American Pipe Company)		
<b>HDPE Pipe (DR11, Green Striped):</b>			
	Driscopipe	Series 1000	
	Chevron	Plexco	
<b>Painting Finish (Exterior):</b>			
	Koppers	No. 505	
	Carboline	Bitumastic 300M	

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<b>Force Main Locating Wire (Single Strand 14-Gauge Solid Copper Wire with Light Green Colored Insulated Covering):</b>			
	Copperhead CCS (Reinforced Tracer Wire)	1230 HS	Open Cut Installation
	Copperhead CCS (Reinforced Tracer Wire)	1245 EHS	HDD Installation
<b>Force Main Identification Tape (Light Green, 6-Inches Wide, 2-inches High Black Lettering, Adhesive Backed):</b>			
	Pro-Line		
<b>Buried Force Main Warning Tape (Light Green, 3-inches Wide, 1-Inch High Black Lettering, Non-Adhesive Backed):</b>			
	Pro-Line		
<b>Poly Pig:</b>			
	Knapp Poly Pig		
	Girard Poly Pig		
<b>Wastewater Service Saddle (Ductile Iron Saddle Body, Stainless Steel Strap):</b>			
	Romac	“CB” Sewer Saddle	For use with Lined VC Pipe

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<b>Wastewater Category 3 of 10: PIPE FITTINGS</b>			
<b>ITEM TO BE USED</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Comments</b>
<b>Fittings (All Sizes), Compact, Ductile Iron (AWWA 153):</b>			
	Star Pipe		
	American - USA		
	SIP Industries		
<b>Flange Adapters:</b>			
	Rockwell International	Type 913	
	Baker	Type 602	
	Dresser International	Type 128	
	Smith Blair	Series 900	
	EBAA	MCGA Flange	Restraining
	Romac	Alpha FCR	Restraining
<b>Casing Spacers (All Sizes) Stainless Steel With Vinyl Runners Centering</b>			
	Cascade	Series CCS/CCPS/AZ	
	RACI	Series S/T, F/G, P/Q, M/N, E/H	
<b>Interior Coatings - Ductile Iron Pipe :</b>			
	Protecto 401		
<b>Restrained Joints - Ductile Iron Pipe:</b>			
	American Cast Iron Pipe	Flex Ring, Lok-Fast, or Lok-Ring	
	US Pipe & Foundry Company	TR-Flex or Lok-tyte	
<b>Mechanical Restraining Joints - Ductile Iron Pipe:</b>			
	EBAA Iron Inc.	Megalug Series 1100, 1700, 3800	

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	Tyler Pipe	MJR	
	Star Pipe Products	Allgrip	
<b>Mechanical Restrained Joints - PVC Pipe:</b>			
	Certain Teed Corporation		
	EBAA Iron Inc.	Megalug Series 2000PV	
<b>Tapping Sleeves - Smaller than 24-inch:</b>			
	JCM	Model 432	
	Mueller	H-304 SS	
	Romac	SST	
<b>Size on Size Tapping Sleeves:</b>			
	Mueller	H-615, 616, 619	
	American Flow Control	Series 2800	
<b>Tapping Sleeves (Mechanical Joint):</b>			
	JCM	Series 414	
	Romac	SST-MJ	
<b>Anti-Sieze Lubricants:</b>			
	Never Sieze		
	Bostik		
<b>Interior Coatings - Ductile Iron Fittings:</b>			
	Protecto 401		



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<b>Wastewater Category 4 of 10: MANHOLES AND ACCESSORIES</b>			
<b>ITEM TO BE USED</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Comments</b>
<b>Concrete Joint Seal:</b>			
	K.T. Snyder Co.	Rub-R-Neck	
<b>Plastic Joint Sealer:</b>			
	K.T. Snyder Co.	Ram Neck	
	Atlantic Concrete Product		
<b>Joint Wrap:</b>			
	A-Lok	Butyl-Lok	
<b>Interior Manhole Coating:</b>			
	Kerneos Aluminates	SewperCoat	
	Strong	Strong Seal HP	
<b>Manhole Boot:</b>			
	Trelleborg	Kor-n-Seal	
	Link Seal	S-316	
<b>Manhole Frame &amp; Cover:</b>			
	US Foundry	USF 170-E	ORS Gasketed
	GMI Composite	Model 2600 F/C	Gasketed
<b>Frame Adjustment Rings:</b>			
	US Foundry	USF 2336 (2"), 2340 (1 3/4")	Cast Iron Adjusting Ring
	US Foundry	USF 1" ADJRING-33A (1")	Steel Adjusting Ring

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<b>Wastewater Category 5 of 10: METALWORK</b>			
<b>ITEM TO BE USED</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Comments</b>
<b>Hatches (Gutter Type, Pad Lockable, Structural Aluminum, Diamond Pattern Surface):</b>			
	Bilco		H-20 Loading
	Halliday Products, Inc.		H-20 Loading
	Babcock-Davis		H-20 Loading
<b>Hatch Nets:</b>			
	Safe Approach	Hatch Net 121	
<b>Anti-Seize Lubricants:</b>			
	Anti-Seize Technology	Pure White	
	Dixon Ticonderoga	AS-470	
<b>Glass Capsule Polyester Resin Adhesive Anchors:</b>			
	Hilti HVA		
	Cobra Anchors		
<b>Expanding-Type Anchors:</b>			
	Trubolt Anchors	ITW Ramset/Redhead	
	McCulloch Industries	Kwick-Bolt	
<b>Impact Anchors:</b>			
	Hilti, Inc.	Metal Hit Anchors	
	Rawlplug Company	Rawl Zamac Nailin	
<b>Coatings:</b>			
	Sherwin-Williams	Zinc-Clad XI	
	Alvin Products	Galvax	
	ZRC Worldwide	Galvite	

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

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	Tnemec	Series 130-6602 Envirofill	
	Carboline	Flexxide	
	Keeler & Long	6440	
<b>Acrylic Emulsion:</b>			
	Tnemec	Series 180 WB Tneme-crete	
	Carboline	D3359	
	Keeler & Long	Aqua-Kolor Enamel W-2 Series	
<b>Ferrous Metal Epoxy Polyamide Primer:</b>			
	Tnemec	66-1211 Epoxy Primer	
	Carboline	893 Primer	
	Ameron	Amercoat 71	
	Keeler & Long	Kolor-Poxy Primer No. 3200	
<b>Ferrous Metal Epoxy Polyamide:</b>			
	Tnemec	66-Color H.B. Epoxoline	
	Kop-Coat	Hi-Gard Epoxy	
	Carboline	890 Epoxy	
	Keeler & Long	Kolor-Poxy Primer	
<b>Aliphatic Polyurethane:</b>			
	Tnemec	72-Color Endura	
	Carboline	134	
	Ameron	Amercoat	
	Keeler & Long	Acrythane Enamel	
<b>Aliphatic Polyurethane (when using roller):</b>			
	Tnemec	70	
	Carboline	134 (for roller)	
	Ameron	Amershield	
	Keeler & Long	Acrythane Enamel Y-1 Series	
<b>Epoxy Polyamide:</b>			
	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	
<b>Epoxy Amine-Cure:</b>			
	Tnemec	104	
	Carboline	187 Finish	Use 187 primer when not using shop primer)
<b>Galvanized Steel Coating Wash Primer and/or Epoxy Polyamide:</b>			
	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 Burtyral Wash Primer No. 7840 plus Kolor-Poxy Primer No. 3200	
<b>Aliphatic Polyurethane:</b>			
	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	
<b>Aliphatic Polyurethane Gloss (when using roller):</b>			
	Tnemec	70-Color Endura Shield	
	Kop-Coat		
	Carboline		
	Ameron	Amershield	
	Keeler & Long	Acrythane Enamel Y-1 Series	
<b>Alternate Coating System:</b>			
	Carboline	Galvanox Type 1	
	Keeler & Long	No. 6820	
<b>Zinc Chromate Primer:</b>			
	Carboline	1037WP	

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	Keeler & Long	Vinyl-Brutyral Wash Primer No. 7840	
<b>Aluminum Pigmented Epoxy Paint:</b>			
	Carboline	Carbomastic 90	
	Keeler & Long	Kolormastic No. 1000	
<b>Coal Tar Epoxy, High Build:</b>			
	Tnemec	46H-413	
	Kop-Coat	Bitumastic No. 300-M	
	Ameron	Amercoat 78HB	
	Keeler & Long	CT 400	
<b>Quality Control:</b>			
	Tinker & Razor		
	K-D Bird Dog Holiday Detector		

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<b>Wastewater Category 7 of 10: EQUIPMENT</b>			
<b>ITEM TO BE USED</b>	<b>Manufacturer</b>	<b>Part Number</b>	<b>Comments</b>
<b>Submersible Pumps (Less than 30 hp):</b>			
	Hydromatic		
	Flygt		
	Myers		
	ABS		
<b>Submersible Pumps (30 hp and greater):</b>			
	Fairbanks		
<b>Variable Frequency Drives:</b>			
	Allan Bradley	Powerflex 753	
	Rockwell Automation		
<b>Tools:</b>			
	Snap On		
	Crescent		
	Stanley		

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



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

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

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

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

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