

NOTE: ONLY US DOMESTIC MANUFACTURED PRODUCTS WILL BE ACCEPTED UNLESS OTHERWISE SPECIFIED***

Suppliers, Engineers and Contractors should verify the materials are domestically manufactured before installation

TECHNICAL SPECIFICATIONS (including Manufacturer)				
ITEM	DESCRIPTION	STANDARD	MODEL / NAME	MANUFACTURER
PIPE & FITTINGS				
WATER				
PVC				
<i>Note: ASTM 1784 – PVC Compounds</i>				
PW-1	2" diameter	SDR 21 – 200psi	ASTM D-2241	J-M Ring-Tite
PW-2	4" – 12" dia	DR 18, PC 150	AWWA C-900	J-M Ring-Tite Blue Brute
PW-3	>12" diameter	DR 18, 235psi	AWWA C-905	J-M BIG BLUE
PW-4	1/4" – 12" dia NON-DISTRIBUTION PIPEWORK ONLY	SCHED 40, 80	ASTM D-1785	
				J-M MANUFACTURING COMPANY 9 Peach Tree Hill Rd Livingston, NJ 07039 PH: (201) 535-1633 NORTH AMERICAN PIPE 2801 Post Oak Blvd., Suite 600 Houston, TX 77056 Phone: 713-840-7473 SPEARS MANUFACTURING CO. 3445 Bartlett Blvd Orlando, FL 32811 PH: (407) 843-1960

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JAN-04: (GA-2) Brass Saddles only
 MAR-04: (GA-2) Dbl bands for >1" tap or >10"dia pipe
 NOV-04: (PW-12) RISLAN coating (Viking Johnson Maxifit)
 SEP-07: (V-1) MARIFLOW, MUELLER, KENNEDY valves
 APR-08: (PW-5) Silver Line Plastics – service lateral PE
 MAR-09: TANKS – PermaStore
 APR-11: Curb Stops BSPT x IPT
 APR-11: Tanks – Description
 NOV-11: PE – PC200
 DEC-13: (PW-5) PE-Endot, JM Poly, CSR Poly – Remove
 DEC-13: (V-8) Curb Stops - Remove
 DEC-13: (GA-3) Push Fittings, TALBOT-Remove

Mar-09: (PW-5) Silver Line Plastics -Remove
 MAY-09: (PS-3) Pre-cast concrete manholes
 (PS-4) USF – Manhole Covers
 (PS-5) Concrete Joint Sealant
 (PW-7) Compact Fittings – Mariflow
 (RD-1) Star Pipe –Restrains
 MAY-10: (PA-1) Marking Tape 12"
 APR-11: Manhole Connectors - 316 series
 APR-11: (PW-7) Star Grip 3000, 4000 –Remove
 JUL-13: (V-7) Corporation Stops – Remove
 DEC-13: (GA-2) Service Saddles – Remove

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				FAX: (407) 425-3563 IPEX CHARLOTTE PIPE & FOUNDRY P.O. Box 35430 Charlotte, NC 28235 PH: (704) 372-5030	
	POLYETHYLENE				
PW-5	3/4" & 1", 1 1/2" diameter	PEX pipe (Pex-a) Class 15, SDR 11	ASTM D-1238 ISO 1133	PEX Pipe	Golan Plastic, Isreal
	DUCTILE IRON				
PW-6	Pipe	ANSI/AWWA C-151/A 21.51		McWANE CAST IRON PIPE CO P.O. Box 607 Birmingham, AL 35201 PH: (205) 322-3521 FAX: (205) 324-7250 US PIPE	

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PW-7	Fittings	Compact fittings Flange fittings	ANSI/AWWA C-110/A21.10 ANSI/AWWA C-153/A21.50 ANSI/AWWA C-115/A21.15		UNION FOUNDRY CO (Division of McWane) P.O. Box 309 Anniston, AL 36202 PH: (205) 236-7601 US PIPE TYLER UNION
PW-8	Thickness	Class 52	ANSI/AWWA C-150/A21.50		
PW-9	Cement Mortar Lining		ANSI/AWWA C-104/A21.4		
PW-10	PE Encasement		ANSI/AWWA C-105/A21.5		TRUMBULL INDUSTRIES 1040 N Meridian Rd P.O. Box 1556 Youngstown, OH 44501
PW-11	Joint		ANSI/AWWA C-111/A21.11		
PW-12	Couplings	Fusion epoxy coating,	ANSI/AWWA	JCM Model 210	JCM INDUSTRIES INC

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ITEM		DESCRIPTION	STANDARD	MODEL / NAME	MANUFACTURER
		corrosion-resistant bolts and nuts Or RISLAN coating	C-219	(DI, PVC) JCM Model 212 (transition)	P.O. Box 1220 Nash, TX 75569-1220 PH: (903) 832-2581 MUELLER AVK, SMITH-BLAIR, VJ
PW-13	Couplings	Composite, push fit		Isiflo Sprint Coupling	Isiflo Raufoss, Norway
	SEWER				
	Pipe and Fittings				
PS-1	4" – 15"	SDR 35	ASTM D-3034	J-M Ring-Tite	J-M PIPE MULTI-FITTINGS IPEX HARCO NORTH AMERICAN PIPE
PS-2	18" – 27"	SDR 35	ASTM F-679		

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APR-11 Tanks – Description
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ITEM		DESCRIPTION	STANDARD	MODEL / NAME	MANUFACTURER
PS-3	Manholes	Pre-Cast Concrete	ASTM-C478		
PS-4	Manhole Cover			USF-227	U S FOUNDRY 8351 N.W. 93RD Street (DeBogory Drive) Medley, Florida 33166-2096 Toll Free: (800) 348-8357 Fax: (305) 887-3986
PS-5	Concrete Joint Sealant		ASTM C990		
RESTRAINT DEVICES					
RD-1	PVC 4" < (DR18)	MJ Restraint MJ Split Restraint Flange Adapter		EBAA Megalug Series 2000PV Series 2000SV	EBAA IRON P.O. Box 857 Eastland, TX 76448 PH: (817) 629-1731

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APR-08: (PW-5) Silver Line Plastics – service lateral PE
MAR-09: TANKS – Permastore
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APR-11 Tanks – Description
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ITEM		DESCRIPTION	STANDARD	MODEL / NAME	MANUFACTURER
	2 (SDR 21)	Bell Split Restraint		Megaflange Series 2100 Series 1600	FAX: (817) 629-8931
		Bell Split Restraint		Series 6500 FORD Uni-Flange Series 1300 (fittings - split), 1350 (push-on), 1390 (bell - split), 1400 (fittings), 1450 (push-on), 1500 TUFGRIP Series 2000	FORD METER BOX CO. 775 Manchester Ave P.O. Box 443 Wabash, IN 46992-0443 PH: (219) 563-3171 or 8441 FAX: (219) 563-0167 TYLER UNION
RD-2	Ductile Iron	Flange Adapter MJ Restraint		Megaflange Series 2100 Megalug Series 1100	

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VALVES¹				
V-1	Gate (2" – 12")	MJ, Resilient seated, NRS, O-ring seals, Epoxy-coated, 2" square operating nut	AWWA C-509 AWWA C-515 AWWA C-550 (coating)	M&H 4067-01 American Flow Control CLOW F-6100 AVK US PIPE METROSEAL (Fig#5460) MARIFLOW MUELLER A-2360 KENNEDY
				M&H VALVE CO (division of McWane). P.O. Box 2088 Anniston, AL 36202 CLOW VALVE CO (division of McWane) 902 S 2 nd St Oskaloosa, Iowa 52577 PH: (515) 673-8611 FAX: (515) 673-8269 clowvalve.com

¹ May-02: All valves must be epoxy coated inside/outside

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MAR-09: TANKS – PermaStore
APR-11: Curb Stops BSPT x IPT
APR-11: Tanks – Description
NOV-11: PE – PC200
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DEC-13: (V-8) Curb Stops - Remove
DEC-13: (GA-3) Push Fittings, TALBOT-Remove

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MAY-10: (RD-1) Star Pipe –Restrains
APR-11: (PA-1) Marking Tape 12"
APR-11: Manhole Connectors - 316 series
JUL-13: (PW-7) Star Grip 3000, 4000 –Remove
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V-2	Butterfly (greater than 12" only)	MJ, NRS, 2" square operating nut, rubber seated, epoxy coated	AWWA C-504	M&H 4500 PRATT GROUNDHOG (Class 150B) AVK US PIPE	HENRY PRATT CO 401 S Highland Ave Aurora, IL 60506-5563 PH: (708) 844-4000 FAX: (708) 844-4191
V-3	Plug Valves (4" <) (SEWER)	FL, rubber seated, NRS, eccentric, epoxy coated		CLOW F-5412	
V-4	Hydrants	MJ, epoxy coated, red "Traffic Model" complete with safety flanges and steel stem couplings, O-Ring seals, 2-2 ½" hose nozzles, 1-4 ½" pumper nozzle, minimum 5 ¼" main valve opening, 3' 6" depth of bury, all nozzles must have cap w/ chain	AWWA C-502	CLOW Medallion AVK US PIPE M-94 Sentinel 250	
V-5	Air Release Valves	Compound lever, 2" NPT inlet, 1" NPT outlet, 3/8"	AWWA C-512	VAL-MATIC VM-45	VALMATIC VALVE AND MANUFACTURING CORP.

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	orifice, with optional vacuum check		GA Fig. 920 (GA product is shorter, lighter, has a smaller outlet ½", and orifice 3/16") GA Fig. 925 (Sewer ARV: 3/16 or 5/16 orifice, GA product is shorter, lighter, has a smaller outlet and orifice)	905 Riverside Dr Elmhurst, IL 60126 PH: (708) 941-7600 FAX: (708) 941-8042 GA INDUSTRIES Mars, PA
V-6	Check Valve	Epoxy coated, CI or DI body and cover, resilient seated	AFC Series 2100 VAL-MATIC Series 500 Swing Flex (backflow actuator optional)	AMERICAN FLOW CONTROL P.O. Box 2727 Birmingham, AL 35202-2727 PH: (205) 325-7856 bpatton@acipco.com
V-7	Ball Valve	Brass DZR, Male x Female, ¾", 1", 1-1/2" European thread,		Bugatti Valvasanitaria, Italy
V-8	Meter Valve	Brass DZR with security lock Female x female (swivel nut American Thread)		Bugatti Valvosanitaria, Italy

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PIPE					
PA-1	Marker Tape	6" wide, detectable, underground, Water Utility, warning tape 12" wide detectable, underground, water utility warning tape for pipes greater than 12" diameter		MAGNATEC 31-024 (Water) MAGNATEC 31-055 (Sewer) MAGNATEC 31-122 (F. Main) <i>(31-122 only 2" wide)</i> Aluminum Foil Plastic Encased	EMPIRE LEVEL MFG CORP W229 N 1420 Westwood Dr P.O. Box 868 Waukesha, WI 53187 PH: (414) 521-3171 FAX: (414) 521-3164 PROLINE SAFETY PRODUCTS 1099 Atlantic Dr, Unit #1 West Chicago, IL 60185 IN STOCK NOW 644 E. Lake St., Lake Mills, WI 53551
	Denso Tape	Anti-corrosive protection	ASTM D1000 ASTM G8	Denso Tape	Denso Winn & Coales (Denso) Ltd, Denso House Chapel Road London SE27 oTR United Kingdom

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VALVE APPURTENANCES					
VA-1	Valve Box	2 piece, screw type, 5 1/4" shaft		RUSSCO 461-S Vale Box and Extensions (screw type)	RUSSELL PIPE & FOUNDRY CO. P.O. BOX 519 Alexander City, AL 35010 PH: (205) 234-2514 FAX: (205) 234-4956 MARIFLOW STAR PIPE
VA-2	Valve Marker	3" brass disc, 1/8" thick w/ 1/4" brass "theft proof" anchor pin permanently attached to underside of disc			WAGCO MARKER P.O. Box 520296 Longwood, FL 32752-0296 PH: (407) 834-4667 FAX: (407) 831-0091
GENERAL					
GA-1	Meter Box	12" standard rectangular box, w/ hinged reading lid		DFW/HPI D-1200 (12" x 17") (D-1500 Jumbo; 15" x	HEFCO PLASTICS / DFW PLASTICS P.O, Box 648

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SEP-07: (V-1) MARIFLOW, MUELLER, KENNEDY valves
APR-08: (PW-5) Silver Line Plastics – service lateral PE
MAR-09: TANKS – Permastore
APR-11 Curb Stops BSPT x IPT
APR-11 Tanks – Description
NOV-11 PE – PC200
DEC-13 (PW-5) PE-Endot, JM Poly, CSR Poly – Remove
DEC-13 (V-8) Curb Stops - Remove
DEC-13 (GA-3) Push Fittings, TALBOT-Remove

Mar-09 (PW-5) Silver Line Plastics -Remove
MAY-09 (PS-3) Pre-cast concrete manholes
(PS-4) USF – Manhole Covers
(PS-5) Concrete Joint Sealant
(PW-7) Compact Fittings – Mariflow
MAY-10 (RD-1) Star Pipe –Restrains
APR-11 (PA-1) Marking Tape 12"
APR-11 Manhole Connectors - 316 series
JUL-13 (PW-7) Star Grip 3000, 4000 –Remove
DEC-13 (V-7) Corporation Stops – Remove
DEC-13 (GA-2) Service Saddles – Remove

NOTE: ONLY US DOMESTIC MANUFACTURED PRODUCTS WILL BE ACCEPTED UNLESS OTHERWISE SPECIFIED***

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TECHNICAL SPECIFICATIONS (including Manufacturer)					
ITEM	DESCRIPTION	STANDARD	MODEL / NAME	MANUFACTURER	
			21") (D-1730 Mini Vault; 19" x 32")	Bedford, TX 76095 PH: (817) 488-6504 FAX: (817) 488-4412 ALLIANCE	
GA-2	Service Saddles	Brass DZR, 316 ss, FBSPT			
GA-3	Manifold	Brass DZR, 1", 1 1/2" with 2 or 4 female exits female 3/4"		Bugatti Valvosanitaria Italy	
GA-4	Standpipes		TAFLO valve		
GA-5	Wash-out	Hose valve accessories	96 – 2" Male NPT x 2 1/2" Male Hose 88CPCH-2 1/2 Cap & Chain	GUARDIAN FIRE EQUIPMENT Miami, FL	
GA-6	Push Fittings	Composite push- fittings		Isiflo Sprint Raufoss, Norway	
GA-7	BARREL LOCKS	G-Barrel lock w/ weather cap; hardened steel	G-BARREL LOCKS WEATEHER CAPS	E. J. BROOKS COMPANY 8 Microlab Road Livingston, New Jersey 07039 Ph: (973) 597-2900 Fax: (973) 597-2950	

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	MANHOLES AND ACCESSORIES				
GA-6	MANHOLE Connectors	Flexible, pipe-to-manhole connectors; - rubber seal shall be made of a resilient rubber that meet or exceed requirements of ASTM C-923. - Pipe clamp and internal band shall be 316 series, non-magnetic stainless steel	ASTM C-923 ASTM A-167	KOR-N-SEAL I / II	NPC INC Elm St P.O. Box 301 Milford, New Hampshire 03055 PH: (603) 673-8680 FAX: (603) 673-7271 www.npc.com
GA-8	MANHOLE COVERS	24" dia. Clear opening; 'SEWER'		USF# 227; Type AS	US FOUNDRY – smelted in the USA
GA-8	Manhole frame and cover				US FOUNDRY – Smelted in the USA
	WASTEWATER				

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ITEM		DESCRIPTION	STANDARD	MODEL / NAME	MANUFACTURER
WW-1	Lift Station breakers and starters				SQUARE D
WW-2	Wetwell access frames and covers				HALLIDAY PROD. BILCO CO. U.S. FOUNDRY –Smelted in the USA
WW-3	PUMPS				FLYGT
CHLORINATION					
CH-1	Pipes		ANSI/AWWA C-651		
CH-2	Tanks		ANSI/AWWA C-652		
TANKS		Glass-coated steel, Bolted, 150mph, Exposure Factor C.	AWWA D-103		PERMASTORE LIMITED c/o Waugh Construction Freeport, GB Bahamas Ph: (242)-352-9378 Fax: (242)-352-2902

NOTE: CLOW, KENNEDY, M&H, UNION FOUNDRY are all divisions of McWANE INCORPORATED

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