

## HRWTF Alternative 4A-1 Light, Phase 2 Improvements - Pipe Schedule

Symbol	Service	Material	Thickness	Joint Type
AS	Air Supply	Carbon Steel	Schedule 10	Welded
BYPASS	Meter Bypass	Ductile Iron	Special Class 53	Flanged
CA	Compressed Air	Carbon Steel	Schedule 40	Socket Weld
CCTE	Chlorine Contact Tank Effluent	Ductile Iron	Special Class 51 (Buried)	Mechanical Joint & Proprietary Restrained Joint
CEN	Centrate	Ductile Iron (Glass Lined)	Special Class 53 (Exposed)	Flanged
CF	Centrifuge Feed	Ductile Iron (Glass Lined)	Special Class 53 (Exposed)	Flanged
CONTAIN	Containment	CPVC	Schedule 80	Solvent Welded
CWR/CWS	Chiller Water Return and Supply	Copper	Type L	95/5 Solder
DAFE	Dissolved Air Flotation Effluent	Ductile Iron	Special Class 51 (Buried) Special Class 53 (Exposed)	Mechanical Joint & Proprietary Restrained Joint / Flanged at Equipment
DAFI	Dissolved Air Flotation Influent	Ductile Iron	Special Class 51 (Buried) Special Class 53 (Exposed)	Mechanical Joint & Proprietary Restrained Joint / Flanged at Equipment
DAFS	Dissolved Air Flotation Solids	Ductile Iron (Glass Lined)	Special Class 51 (Buried) Special Class 53 (Exposed)	Mechanical Joint & Proprietary Restrained Joint / Flanged
DEFOAM	Defoamer	PVC	Schedule 80	Solvent Welded
DR	Drain	Floor Drains – Cast Iron Soil Pipe (CISP) NaOH Drain – PVC	CISP – Varies based on pipe size PVC - SDR 26	CISP – Hub & Spigot PVC – Heavy Duty Gasket
FA	Foul Air	FRP	2"-20"-.25" wall	FRP/Flanged
GRFM	Gravelly Run Force Main	Exposed Service – Ductile Iron (DI) Buried Service – HDPE	DI – Special Class 51 HDPE – IPS DR 21 (4710 Resin)	DI – Flanged HDPE – Fusion welded/ Flanged
MBBRD	Moving Bed Biofilm Reactor Drain	Ductile Iron	Special Class 51	Mechanical Joint & Proprietary Restrained Joint
MBBRI	Moving Bed Biofilm Reactor Influent	Ductile Iron	Special Class 51 (Buried) Special Class 53 (Exposed)	Mechanical Joint & Proprietary Restrained Joint / Flanged at Equipment
MBBRR	Moving Bed Biofilm Reactor Recycle	Ductile Iron	Special Class 51 (Buried) Special Class 53 (Exposed)	Mechanical Joint & Proprietary Restrained Joint / Flanged at Equipment
NaHSO <sub>3</sub>	Sodium Bisulfite	PVC	Schedule 80	Solvent Welded
NaOH	Sodium Hydroxide	CPVC	Schedule 80	Solvent Welded
		Sizes 1 to 3 IN Exposed – PVC Buried – Steel	Sizes 1 to 3 IN PVC – Schedule 80 Steel – Schedule 40	Sizes 1 to 3 IN PVC – Solvent Welded Steel – Threaded
NPW	Non-Potable Water	Sizes 3 to 12 IN Exposed – PVC Buried – Ductile Iron (DI)	Sizes 3 to 12 IN PVC – DR 25 DI – Special Class 51	Sizes 3 to 12 IN PVC – Gasket DI – Mechanical Joint
OVERFLOW	Overflow	CPVC/PVC to match service above	Schedule 80	Solvent Welded
PW	Potable Water	Sizes 1 to 3 IN Exposed Service – Copper Buried Service – Copper	Exposed - Type L Buried – Type K	Exposed - 95/5 solder Buried – 95/5 Solder
POLYS	Polymer Solution	PVC	Schedule 80	Solvent Welded
RAS	Return Activated Sludge	Ductile Iron	Special Class 53	Flanged
SPD	Sump Pump Discharge	PVC	Schedule 80	Solvent Welded
SS	Sanitary Sewer	PVC	PVC – SDR 26	PVC – Heavy Duty Gasket
VENT	Vent	CPVC/PVC to match service above	Schedule 80	Solvent Welded