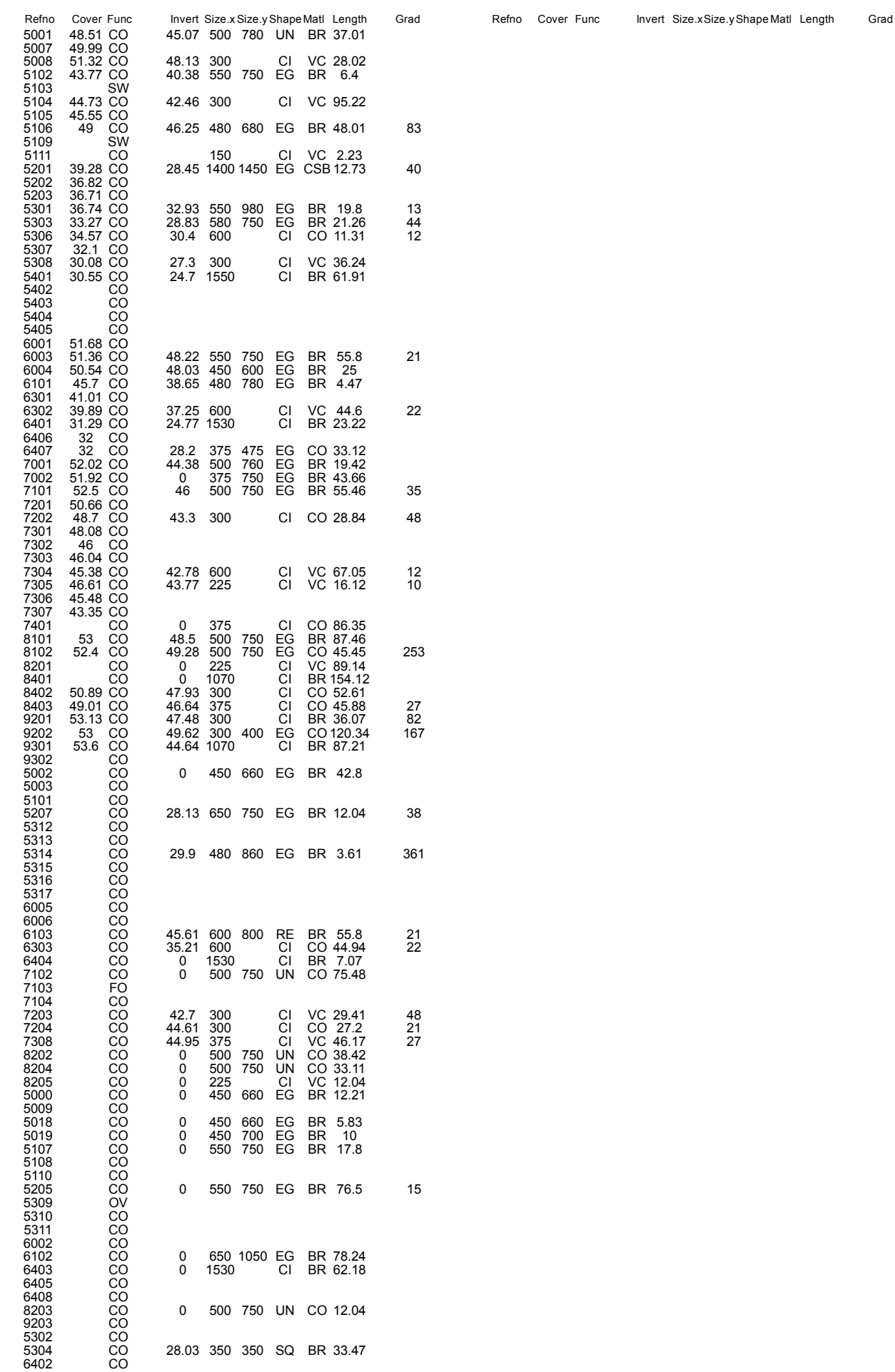




Foul	Surface	Combined	
			WW Site Termination
			Air Valve
			Cascade
			Non Return Valve
			Extent of Survey
			Flow Meter
			Gully
			Hatch Box
			Head of System
			Hydrobrake / Vortex
			Inlet
			Inspection Chamber
			Bifurcation
			Catchpit
			Contaminated Surface Water
			WW Pumping Station
			Sludge Pumping Station
			Sewer Overflow
			T Junction/Saddle
			LampHole
			OilInterceptor
			PenStock
			Pump
			RoddingEye
			Soakaway
			Summit
			Valve
			Valve Chamber
			Washout Chamber
			DropShaft
			WW Treatment Works
			Septic Tank
			Vent Column
			Network Storage Tank
			Orifice Plate
			Vortex Chamber
			Penstock Chamber
			Blind Manhole

Foul Surface Combined Overflow

Screen Chamber	Screen Chamber	Screen Chamber	Screen Chamber
Discharge Point	Discharge Point	Discharge Point	Discharge Point
Outfall	Outfall	Outfall	Outfall

Sludge Main, Public
Sludge Main, Private
Sludge Main, S104

ABANDONED PIPE

— MainSewer
— Rising Main
— Highway Drain
— Sludge Main

Control Kiosk
 Unspecified

SEWER SHAPE			
CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

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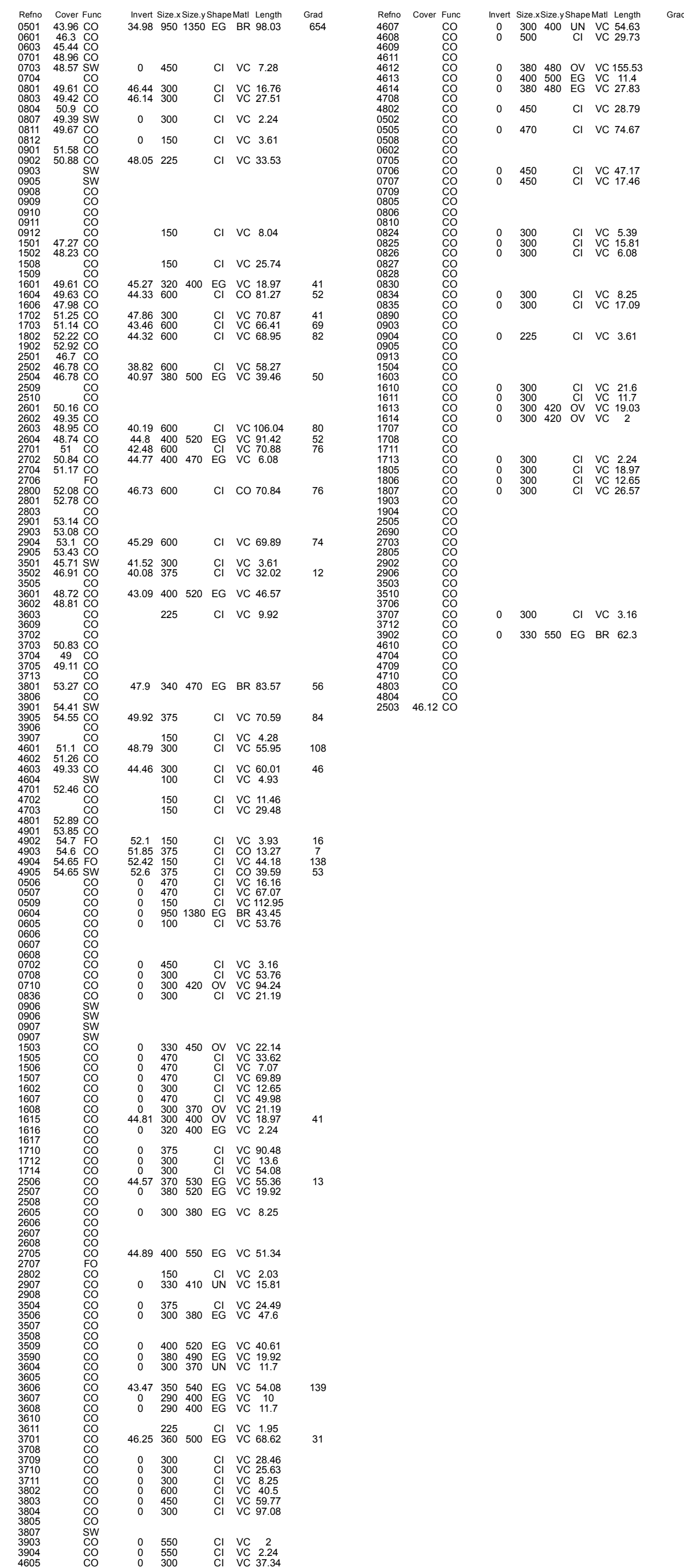
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United Utilities
helping life flow smoothly

SEWER RECORDS

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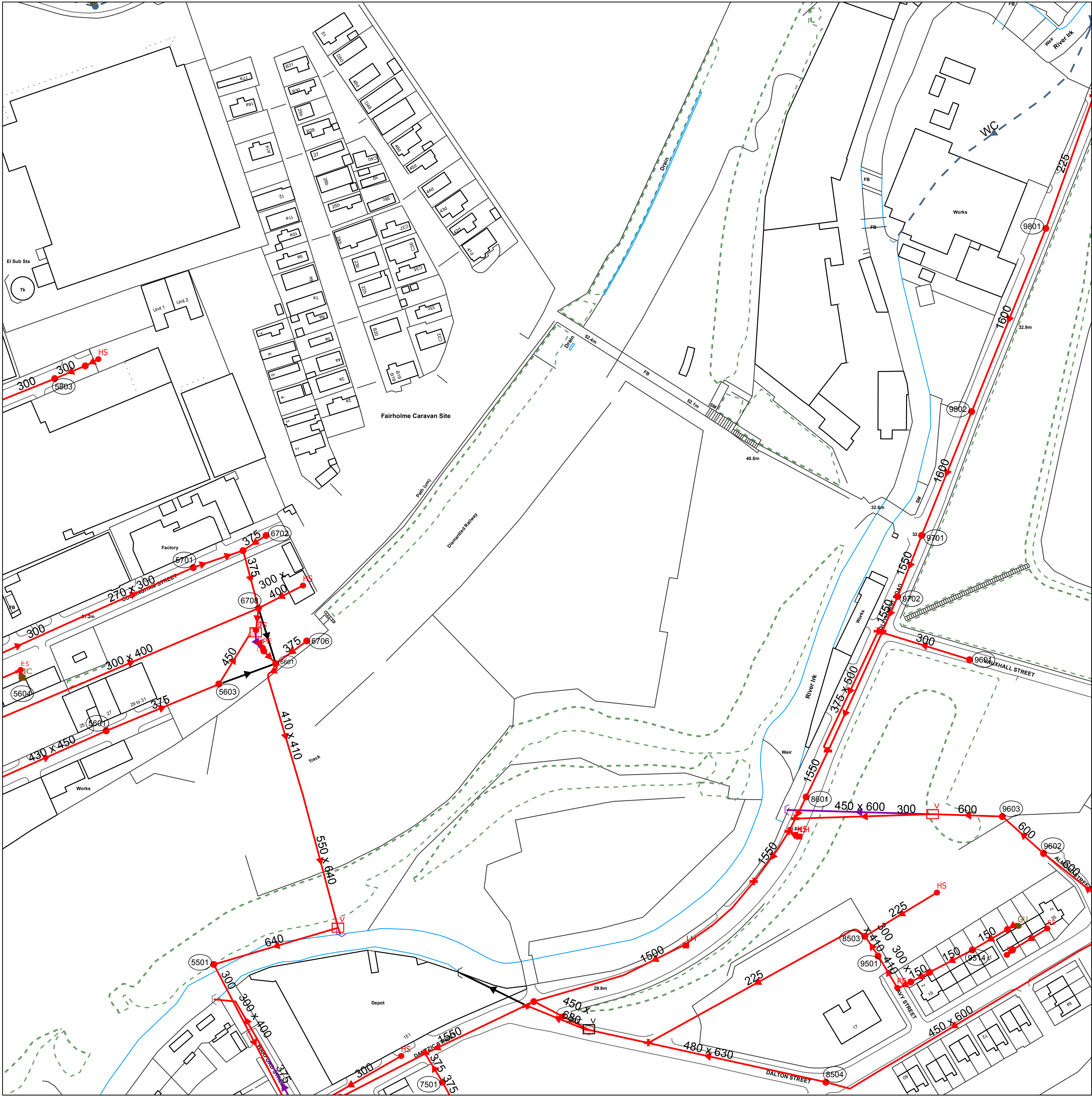


Foul	Surface	Combined		
			WW Site Termination	
			Air Valve	
			Cascade	
			Non Return Valve	ABANDONED PIPE
			Extent of Survey	
			Flow Meter	
			Gully	
			Hatch Box	
			Head of System	
			Hydrobrake / Vortex	
			Inlet	
			Inspection Chamber	
			Bifurcation	
			Catchpit	
			Contaminated Surface Water	
			WW Pumping Station	
			Sludge Pumping Station	
			Sewer Overflow	
			T Junction/Saddle	
			LampHole	
			OilInterceptor	
			PenStock	
			Pump	
			RoddingEye	
			Soakaway	
			Summit	
			Valve	
			Valve Chamber	
			Washout Chamber	
			DropShaft	
			WW Treatment Works	
			Septic Tank	
			Vent Column	
			Network Storage Tank	
			Orifice Plate	
			Vortex Chamber	
			Penstock Chamber	
			Blind Manhole	
Foul	Surface	Combined	Overflow	
			Screen Chamber	
			Discharge Point	

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SEWER RECORDS



Retho	Cover	Func	Invert	Size	xSize	yShape	Mat	Length	Grad	Retho	Cover	Func	Invert	Size	xSize	yShape	Mat	Length	Grad
5501	46.75	CO	300	CI	BR	81.32													
5501	46.75	CO																	
5503	46.56	CO																	
5504	50.79	FO	47.73	200	220	UN	BR	9.81	20										
5502	51.76	CO	48.44	300	CI	VC	15.23												
5503	51.85	CO	48.3	300	CI	VC	86.16		109										
5501	54.83	SW	53.11	300	CI	CO	51.33		178										
6501	45.81	CO																	
6701	50.78	CO																	
6702	50.71	CO	47.44	375	CI	VC	12.64		18										
6705	46	CO	0	375	CI	VC	17.64												
6706	48.44	CO																	
7501	31.57	CO	29.36	375	CI	VC	15.26												
7503	30.16	CO	25	1550	CI	BR	99.29		473										
8503	40.57	CO	0	225	CI	VC	113.91												
8504	41.79	CO																	
8601	30.23	CO	25.24	1550	CI	BR	17.89												
9501	42.64	CO	38.9	300	410	OV	CO	10.82	7										
9503	44.61	CO																	
9508		CO	150	CI	VC	3.47													
9509		CO																	
9513		CO																	
9514		CO																	
9601	32.65	CO	28.71	300	CI	VC	43.97												
9602	44.42	CO	0	600	CI	VC	31.96												
9603		CO																	
9701	32.54	CO	25.46	1550	CI	BR	17.46												
9702	32.14	CO	26.03	1600	CI	BR	90.82		154										
9801	32.92	CO	25.44	1600	CI	BR	61.47		1537										
9802	32.59	CO																	
5702		CO																	
5703		CO																	
5806		CO	0	300	CI	VC	6.71												
6503		CO	0	300	CI	VC	54.21												
6506		UN	0	300	400	UN	CO	40.07											
6502		UN																	
6505		UN	0	410	410	UN	BR	55.85											
6703		UN	0	300	400	UN	VC	22.93											
6707		UN	0	300	400	UN	VC	22.93											
6709		UN																	
9504		CI	0	225	CI	VC	38.59												
9505		CI																	
9510		CI																	
9511		CI	100	CI	VC	5.05													
9512		CI																	
9504		SW																	
9506		SW																	
6504		SW																	
7502		SW																	
7505		SW																	
8502		CI	0	1500	CI	BR	117.5												
8505		CI																	
8602		CI	0	1550	CI	BR	28.04												
8604		CI																	
8607		CI																	
8608		CI																	
9703		CI	0	1550	CI	BR	83.67												
9704		CI																	
7502		CI																	
7507		CI																	
6501	46	OV	29.14	450	680	OV	BR	31.05											
6704		CI	0	600	CI	VC	1.05												
7504		CI																	
9604		CI																	

WASTE WATER SYMBOLOLOGY				
Foul	Surface	Combined	Overflow	Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

	WW Site Termination		Sludge Main, Public
	Air Valve		Sludge Main, Private
	Cascade		Sludge Main, S104
	Non Return Valve		
	Extent of Survey		
	Flow Meter		
	Gully		
	Hatch Box		
	Head of System		
	Hydrobrake / Vortex		
	Inlet		
	Inspection Chamber		
	Bifurcation		
	Catchpit		
	Contaminated Surface Water		
	WW Pumping Station		
	Sludge Pumping Station		
	Sewer Overflow		
	T Junction/Saddle		
	LampHole		
	OilInterceptor		
	PenStock		
	Pump		
	RoddingEye		
	Soakaway		
	Summit		
	Valve		
	Valve Chamber		
	Washout Chamber		
	DropShaft		
	WW Treatment Works		
	Septic Tank		
	Vent Column		
	Network Storage Tank		
	Orifice Plate		
	Vortex Chamber		
	Penstock Chamber		
	Blind Manhole		
	Screen Chamber		Control Kiosk
	Discharge Point		Unspecified
	Outfall		

MANHOLE FUNCTION	
FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow
SEWER SHAPE	
CI	Circular
EG	Egg
OV	Oval
FT	Flat Top
RE	Rectangular
SQ	Square
TR	Trapezoidal
AR	Arch
BA	Barrel
HO	HorseShoe
UN	Unspecified
SEWER MATERIAL	
AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culverted
PSC	Plastic/Steel Composite
GRC	Glass Reinforced Concrete
GRP	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

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