

[illegible]

Line	Line ID	Flow rate (m³/s)	Line size (mm)	Line diameter (mm)	Line length (m)	Insert (mm)	Recess (mm)	Flow rate (%)	HSL (mm)	HSL (mm)	Minor (mm)	HSL (mm)	Line No.
25	R200 - R200	0.59	6	Cr	5,000	257.36	257.41	1,000	258.87	257.65	0.16	258.80	13
26	R200 - R201	0.59	6	Cr	11,000	257.41	257.41	1,000	259.01	258.15	0.14	258.28	25
27	R201 - R202	0.59	6	Cr	5,000	258.15	258.15	1,000	259.52	258.61	0.16	258.80	37
28	R202 - R203	0.50	6	Cr	5,000	258.61	258.61	1,000	259.83	258.93	0.11	258.83	27
29	R203 - BLDG	0.50	6	Cr	5,000	258.93	258.93	1,000	259.86	258.92	0.04	258.83	28
30	D201 - D212	1.18	15	Cr	48,000	256.77	256.77	1,000	257.13	257.68	0.16	257.68	14
31	D202 - Y004	1.12	6	Cr	22,170	257.32	257.52	0.682	257.80	258.60	0.75	258.46	15
32	Y004 - YD10	0.97	6	Cr	68,380	257.82	258.10	0.94	258.45	258.01	0.20	258.05	31
33	YD10 - BLDG	0.90	6	Cr	11,000	258.10	258.10	1,000	259.30	258.36	0.14	258.80	32
34	Y004 - YD10	0.30	6	Cr	8,000	257.87	258.20	0.78	258.46	258.46	0.04	258.80	33
35	D202 - Y004	3.83	15	Cr	84,000	257.12	258.01	1,000	257.86	258.00	n/a	258.80	15
36	Y004 - Y004	0.32	102	Cr	68,000	258.01	258.09	1,000	258.80	259.39	n/a	259.39	35
37	Y004 - D212	1.91	15	Cr	30,000	258.99	258.99	1,000	259.54	259.54	n/a	259.54	30
38	Y004 - Y004	0.25	6	Cr	10,000	258.99	258.99	1,000	259.54	259.56	0.01	259.57	37
39	Y004 - Y004	0.30	6	Cr	10,000	259.56	259.56	1,000	259.56	259.56	0.01	259.56	38
40	Y004 - BLDG	0.30	6	Cr	3,000	259.01	258.98	1,000	259.80	258.86	0.04	258.90	35
41	Y004 - BLDG	0.30	6	Cr	11,000	259.01	258.12	1,000	259.80	258.83	0.02	258.86	36
42	Y004 - BLDG	0.30	6	Cr	5,000	258.12	258.14	1,000	259.80	258.80	0.04	258.90	41
43	Y004 - BLDG	0.36	6	Cr	35,000	258.99	258.07	1,000	259.83	258.92	0.05	258.98	38
44	Y004 - BLDG	0.36	6	Cr	35,000	258.99	258.07	1,000	259.83	258.92	0.05	258.98	39
45	Y004 - BLDG	0.36	6	Cr	5,000	258.80	258.86	1,000	259.47	258.47	0.05	258.83	44
46	D212 - R203	1.98	15	Cr	24,000	260.00	260.32	1,000	260.02	260.48	n/a	260.84	37
47	R203 - Y007	1.46	15	Cr	24,000	260.32	260.32	1,000	260.84	260.14	n/a	261.04	46
48	Y007 - Y008	1.36	15	Cr	21,000	260.32	260.77	1,000	261.04	261.23	n/a	261.23	47

Line	Line No.	Line ID	Flow Rate (m³/s)	Line Size (mm)	Line Shape	Line Weight (kg/m)	Invert Elev. (m)	Outlet Elev. (m)	Line Slope (%)	HGL (m)	HGL (m)	Minor Loss (m)	HGL (m)	Line No.
Distribution	49	R203 - R214	1.24	15	Cr	6.000	200.37	200.03	1.000	201.23	201.36	0.00	201.36	49
	50	R203 - R206	0.20	6	Cr	16.000	200.32	200.58	0.000	200.84	200.96	0.00	200.97	46
	51	R204 - R215	0.21	6	Cr	16.000	201.58	201.84	0.000	202.84	202.97	0.00	202.97	51
	52	R215 - R216	0.41	15	Cr	10.000	201.70	202.40	0.000	204.07	204.87	0.00	204.88	51
	53	R207 - R217	2.88	15	Cr	43.000	201.61	201.90	1.000	202.90	202.85	0.00	202.85	53
	54	R217 - R218	1.57	15	Cr	60.000	201.63	202.53	0.000	202.95	203.03	0.00	203.03	54
	55	R218 - R204	1.37	12	Cr	30.000	201.60	201.73	1.000	200.85	200.92	0.00	200.92	54
	56	R204 - R206	1.14	12	Cr	42.000	201.63	201.67	0.000	200.92	200.90	0.00	200.90	56
	57	R205 - R206	0.20	6	Cr	16.000	200.32	200.58	0.000	200.84	200.97	0.00	200.97	57
	58	R206 - R208	0.24	6	Cr	10.000	200.57	200.87	1.000	200.97	200.92	0.00	200.92	58
	59	R204 - R205	0.24	6	Cr	10.000	201.74	201.83	0.000	202.92	203.08	0.00	203.08	59
	60	R205 - R206	0.24	6	Cr	10.000	200.15	200.25	1.000	200.50	200.50	0.00	200.50	60
	61	R217 - R208	0.22	6	Cr	69.000	200.60	200.29	0.000	200.82	200.93	0.00	200.93	61
	62	R208 - Y211	0.03	6	Cr	16.000	200.29	200.45	1.000	200.83	200.99	0.00	200.99	62
	63	Y211 - Y212	0.17	6	Cr	16.000	200.45	200.56	1.000	200.86	200.96	0.00	200.96	63
	64	Y212 - Y213	0.11	6	Cr	32.000	200.57	200.09	0.000	200.88	200.98	0.00	200.98	64
65	R209 - R210	1.84	12	Cr	26.000	200.76	200.94	1.000	200.96	200.92	0.00	200.92	65	
66	R209 - R210	0.96	12	Cr	68.000	200.94	200.92	1.000	200.82	200.93	0.00	200.93	66	
67	R210 - R214	0.30	6	Cr	37.000	200.94	201.41	0.000	200.98	200.97	0.00	200.97	67	
68	Y214 - R210	0.30	6	Cr	37.000	200.94	200.26	1.000	200.98	200.97	0.00	200.97	68	
69	Y214 - R210	0.30	6	Cr	37.000	200.94	200.26	1.000	200.98	200.97	0.00	200.97	69	
70	Y210 - Y215	0.30	6	Cr	11.000	200.72	200.93	0.000	200.22	200.33	0.00	200.33	70	
72	Y215 - R210	0.30	6	Cr	10.000	200.93	200.83	1.000	200.40	200.43	0.00	200.43	72	

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Line No.	Line ID	Flow (m³/sec)	Line Slope (%)	Line Shape	Line Shape (%)	Invert (m)	Invert (m)	Line Slope (%)	HGL (m)	HGL (m)	Minor (m)	HGL (m)	Line No.
73	R202 - R219	0.67	12	Cir	35.00	265.67	265.87	1.00	265.67	265.21	265.21	265.21	87
74	R207 - R218	0.68	12	Cir	35.00	266.87	266.12	1.00	265.21	265.46	265.46	265.46	75
75	R202 - R219	0.67	12	Cir	35.00	265.67	265.87	1.00	265.67	265.21	265.21	265.21	87
76	D300 - D301	9.11	15	Cir	24.00	246.56	246.22	3.00	248.37	250.39	250.39	250.39	76
77	D301 - D302	8.16	15	Cir	69.00	249.22	250.00	2.00	251.72	251.72	251.72	251.72	77
78	D302 - D303	7.36	15	Cir	35.00	250.79	251.05	1.00	252.00	252.39	252.39	252.39	78
79	D303 - D304	4.08	15	Cir	114.00	251.05	252.19	1.00	253.19	253.65	253.65	253.65	79
80	D304 - D305	3.84	15	Cir	60.00	252.19	252.85	1.00	253.51	254.06	254.06	254.06	80
81	D305 - D306	2.44	15	Cir	70.00	252.85	253.51	1.00	254.06	254.72	254.72	254.72	81
82	D306 - D307	1.82	15	Cir	70.00	253.47	254.17	1.00	254.38	254.72	254.72	254.72	82
83	D307 - D308	1.40	15	Cir	62.00	254.17	254.79	1.00	254.72	255.26	255.26	255.26	83
84	D308 - D309	1.12	15	Cir	70.00	254.79	255.49	1.00	255.26	255.91	255.91	255.91	84
85	D301 - R300	0.80	8	Cir	10.00	254.17	254.27	1.00	254.50	254.63	254.63	254.63	85
86	R300 - R317	0.00	8	Cir	10.00	254.27	254.48	1.00	254.63	254.73	254.73	254.73	86
87	R317 - R318	0.00	8	Cir	10.00	254.48	254.61	1.00	254.73	254.81	254.81	254.81	87
88	R302 - R303	0.00	8	Cir	48.00	254.27	254.75	1.00	254.63	255.00	255.00	255.00	88
89	R332 - R332	0.30	6	Cir	48.00	254.75	254.80	1.00	255.01	255.08	255.08	255.08	89
90	YD10 - YD16	0.09	6	Cir	68.00	252.22	252.52	1.00	253.63	253.63	253.63	253.63	90
91	YD16 - YD17	0.35	8	Cir	68.00	252.54	253.22	1.00	253.63	253.63	253.63	253.63	91
92	YD17 - YD18	0.00	8	Cir	68.00	253.22	253.52	1.00	253.63	253.63	253.63	253.63	92
93	YD18 - R332	0.00	8	Cir	70.00	253.54	253.87	1.00	253.80	253.80	253.80	253.80	93
94	D302 - D310	0.89	15	Cir	42.00	254.48	255.00	1.00	254.89	255.37	255.37	255.37	94
95	D303 - R333	2.78	15	Cir	75.00	253.85	254.60	1.00	254.24	255.27	255.27	255.27	95
96	R333 - R334	1.71	15	Cir	69.00	254.60	255.29	1.00	255.27	255.91	255.91	255.91	96

Line No.	Line ID	Flow rate (m³/s)	Line size (mm)	Line shape	Line length (m)	Invert (m)	Invert (m)	Flow rate (m³/s)	HGL (mm)	HGL (mm)	Minor loss (m)	HGL (mm)	Flow rate (m³/s)	Line No.
97	R304 - R305	0.97	15	Cir	20,000	255.20	255.65	1,000	255.61	255.91		255.91	0.97	98
98	R305 - BLDG	0.30	6	Cir	37,000	254.25	254.97	1,000	254.97	255.37	0.05	255.42	0.30	99
99	R305 - VDI9	0.63	6	Cir	11,000	255.00	255.50	1,000	255.50	255.90	0.07	255.97	0.63	100
100	VDI9 - BLDG	0.30	6	Cir	10,000	255.71	255.81	1,000	255.64	255.87	0.04	255.91	0.30	101
101	R304 - BLDG	0.30	6	Cir	37,000	254.25	254.86	1,000	254.86	255.00	0.05	255.05	0.30	102
102	R304 - VDI9	0.57	6	Cir	11,000	255.25	255.50	1,000	255.50	255.90	0.07	255.96	0.57	103
103	VDI9 - BLDG	0.30	6	Cir	10,000	255.40	255.50	1,000	255.56	255.60	0.04	255.63	0.30	104
104	R306 - VDI9	0.27	6	Cir	20,000	255.85	255.76	1,000	255.91	256.18		256.18	0.27	105
105	VDI9 - YD23	0.27	6	Cir	20,000	255.85	255.76	1,000	255.91	256.18		256.18	0.27	106
106	R306 - YD22	0.60	6	Cir	21,000	255.55	255.10	1,000	255.01	255.22	0.08	255.36	0.60	107
107	YD22 - YD23	0.27	6	Cir	25,000	255.76	256.01	1,000	256.30	256.34		256.37	0.27	108
108	YD23 - YD24	0.11	6	Cir	18,000	256.01	256.19	1,000	256.37	256.38	0.06	256.36	0.11	109
110	10 - D400	2.96	15	Cir	10,000	238.31	243.71	7,500	238.71	244.61	0.52	244.61	2.96	110
110	D400 - D401	2.96	15	Cir	10,000	246.27	244.97	3,000	246.08	244.61	0.25	244.61	2.96	111
111	D401 - R402	1.55	15	Cir	10,000	246.27	244.97	3,000	246.08	244.61	0.25	244.61	1.55	112
112	R402 - R401	1.17	15	Cir	132,000	255.25	256.01	2,000	255.60	255.98		255.98	1.17	113
113	R401 - R402	0.76	10	Cir	18,000	248.00	251.00	20,000	242.16	251.48	0.15	251.68	0.76	114
114	R402 - R403	0.30	6	Cir	31,000	251.00	251.91	1,000	251.98	252.19		252.19	0.30	115
115	R403 - BLDG	0.30	6	Cir	30,000	251.91	251.94	1,000	251.98	252.22	0.11	252.22	0.30	116
116	R403 - R404	0.46	6	Cir	37,000	251.90	251.93	1,000	251.98	252.31	0.16	252.31	0.46	117
117	R404 - R405	0.16	6	Cir	27,000	252.34	252.25	1,000	252.34	252.48		252.48	0.16	118
118	R405 - YD25	0.16	6	Cir	10,000	252.48	252.14	1,000	252.16	252.31		252.31	0.16	119
119	YD25 - YD26	0.11	6	Cir	25,000	252.25	252.50	1,000	252.45	252.66		252.66	0.11	120
120	R404 - BLDG	0.30	6	Cir	37,000	251.97	252.04	1,000	252.32	252.32	0.11	252.32	0.30	121

Line	Line No.	Line ID	Flow rate (l/s)	Line Size	Line slope	Line length (m)	Invert RL (m)	Invert EL (m)	Line Slope (%)	HGL Down (m)	HGL Up (m)	Minor loss (m)	HGL Junt (m)	Env. Line No.
121	R400_R406	R400	0.78	10	Cr	15.000	252.05	252.00	1.000	252.05	252.59	n/a	252.05	121
122	R405_R407	R405	0.50	6	Cr	34.000	253.20	253.24	1.000	253.20	253.83	0.02	253.20	122
123	R412_R405	R412	0.30	6	Cr	10.000	253.54	253.64	1.000	253.50	253.82	n/a	253.50	123
124	R406_R408	R406	0.69	6	Cr	34.000	252.50	252.64	1.000	252.50	252.80	n/a	252.50	124
125	R408_R406	R408	0.19	6	Cr	14.000	253.54	253.58	1.000	253.50	253.07	0.02	253.50	125
126	R409_VD227	R409	0.19	6	Cr	10.000	252.68	252.83	1.000	252.50	253.05	0.09	253.05	126
127	VD27_VD28		0.13	6	Cr	25.000	253.83	253.08	1.000	253.83	253.26	n/a	253.26	127
128	R409_R405	R409	0.30	6	Cr	10.000	253.54	253.64	1.000	253.50	253.83	0.04	253.12	128
129	R401_R402	R401	1.17	10	Cr	10.000	256.01	256.16	1.000	256.04	256.56	0.29	256.04	129
130	R410_R411	R410	0.30	6	Cr	34.000	256.14	256.50	1.000	256.04	256.78	n/a	256.78	130
131	R411_R405	R411	0.30	6	Cr	10.000	256.50	256.50	1.000	256.78	256.68	n/a	256.68	131
132	R410_R412	R410	0.89	6	Cr	34.000	256.14	256.60	1.000	256.60	257.51	0.32	257.53	132
133	R412_R413	R412	0.60	6	Cr	14.000	256.54	256.64	1.000	257.87	257.96	n/a	257.10	133
134	R413_VD29	R413	0.60	6	Cr	15.000	256.64	256.79	1.000	257.87	257.97	0.19	256.93	134
135	VD29_VD30		0.21	6	Cr	25.000	256.79	256.74	1.000	258.67	258.67	0.04	258.67	135
136	VD30_VD31		0.21	6	Cr	32.000	257.94	257.36	1.000	258.68	258.61	0.03	258.64	136
137	VD31_VD32		0.35	6	Cr	37.000	257.36	257.13	1.000	258.64	258.88	0.02	258.90	137
138	R412_R405	R412	0.30	6	Cr	10.000	256.50	256.60	1.000	257.87	257.87	0.04	257.89	138

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