

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
D43-P559	P25454	P24366	100.00	4.00	CIRCULAR	12	12	7	867.5	860.6	7	No
L23138	CB23240	CB23238	19.83	0.35	CIRCULAR	18	18	6	880.2	879.9	9	Yes
L23200	CB23200	P23320	304.00	3.49	CIRCULAR	15	15	12	876.3	863.7	7	No
L23202	CB23204	P23202	50.00	0.60	CIRCULAR	24	24	18	880.6	880.6	14	Yes
L23203	CB23244	P23202	48.00	0.96	CIRCULAR	18	18	10	880.8	880.6	10	Yes
L23204	CB23206	CB23204	155.04	2.68	CIRCULAR	18	18	17	885.3	880.6	15	Yes
L23206	CB23208	CB23206	204.40	1.78	CIRCULAR	12	12	5	887.1	885.3	2	Yes
L23207	CB23212	CB23206	200.86	2.09	CIRCULAR	12	12	5	887.2	885.3	4	Yes
L23208	CB23110	CB23208	164.70	0.84	CIRCULAR	12	12	3	885.3	887.1	2	No
L23213	CB23214	CB23206	209.07	0.82	CIRCULAR	12	12	3	887.6	885.3	5	Yes
L23214	CB23216	CB23214	290.15	0.70	CIRCULAR	12	12	3	887.3	887.6	3	Yes
L23218	CB23220	P23218	161.77	3.14	CIRCULAR	12	12	6	881.0	874.3	8	Yes
L23219	CB23228	CB23220	230.80	0.36	CIRCULAR	12	12	2	876.7	881.0	5	No
L23220	CB23222	CB23220	334.25	0.54	CIRCULAR	12	12	3	887.0	881.0	6	Yes
L23221	CB23226	CB23220	110.70	0.53	CIRCULAR	12	12	3	882.5	881.0	4	Yes
L23222	CB23224	CB23222	164.49	2.53	CIRCULAR	12	12	6	889.2	887.0	4	Yes
L23232	CB23234	CB23232	221.08	0.27	CIRCULAR	18	18	5	878.2	873.9	8	No
L23234	CB23236	CB23234	42.31	0.21	CIRCULAR	18	18	5	878.6	878.2	8	Yes
L23236	CB23238	CB23236	213.89	0.25	CIRCULAR	18	18	5	879.9	878.6	8	Yes
L23240	P23202	CB23240	30.00	0.33	CIRCULAR	18	18	6	880.6	880.2	14	Yes
L23244	CB23246	CB23244	207.72	0.71	CIRCULAR	18	18	9	885.9	880.8	10	Yes
L23246	CB23248	CB23246	231.66	2.58	CIRCULAR	15	15	10	884.0	885.9	5	No
L23301	CB23302	J23316	116.00	2.10	CIRCULAR	27	27	45	868.0	862.4	26	No
L23302	CB23304	CB23302	55.85	1.00	CIRCULAR	21	21	16	869.9	868.0	23	Yes
L23304	CB23306	CB23304	139.87	0.99	CIRCULAR	18	18	10	872.2	869.9	12	Yes
L23306	CB23308	CB23306	203.63	0.78	CIRCULAR	15	15	6	877.0	872.2	10	Yes
L23308	P23310	CB23308	232.32	0.87	CIRCULAR	15	15	6	870.5	877.0	3	No
L23311	CB23312	J23316	114.00	4.52	CIRCULAR	15	15	14	868.0	862.4	3	No

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L23313	CB23314	P23320	180.00	0.71	CIRCULAR	15	15	5	869.0	863.7	3	No
L23320	P23400	P23320	140.00	0.14	CIRCULAR	24	24	9	865.4	863.7	7	No
L23321	CB23230	P23320	160.00	1.88	CIRCULAR	18	18	14	870.1	863.7	14	No
L23400	P23402	P23400	310.00	0.16	CIRCULAR	42	42	35	866.7	865.4	24	No
L23402	P23404	P23402	630.00	0.24	CIRCULAR	24	24	11	867.5	866.7	9	No
L23404	P23406	P23404	190.00	1.05	CIRCULAR	18	18	11	868.8	867.5	6	No
L24112	CB24314	CB24312	168.09	0.32	CIRCULAR	12	12	2	877.0	875.7	0	No
L24212	CB24214	P24212	196.00	0.09	CIRCULAR	18	18	3	862.2	859.6	13	Yes
L24213	P24322	P24212	48.00	0.54	CIRCULAR	12	12	3	860.3	859.6	4	Yes
L24214	CB24216	CB24214	227.10	0.11	CIRCULAR	18	18	4	862.2	862.2	3	Yes
L24216	CB24218	CB24216	138.13	0.10	CIRCULAR	18	18	3	862.1	862.2	3	Yes
L24218	CB24218	CB25104	177.74	1.16	CIRCULAR	18	18	11	862.1	859.5	13	Yes
L24219	CB24220	CB24218	162.72	0.92	CIRCULAR	12	12	3	868.1	862.1	6	No
L24266	CB24302	P24366	570.00	1.40	CIRCULAR	27	27	32	870.6	860.6	4	No
L24302	CB24304	CB24302	365.76	0.23	CIRCULAR	15	15	3	873.1	870.6	4	No
L24304	CB24306	CB24304	248.53	0.17	CIRCULAR	15	15	3	874.3	873.1	4	Yes
L24306	CB24308	CB24306	218.54	0.17	CIRCULAR	15	15	3	875.4	874.3	4	Yes
L24308	P24310	CB24308	77.00	0.48	CIRCULAR	15	15	4	875.7	875.4	4	Yes
L24310	CB24312	P24310	40.00	0.50	CIRCULAR	24	24	16	875.7	875.7	19	Yes
L24312	CB24314	CB24312	168.04	0.30	CIRCULAR	24	24	12	877.0	875.7	19	Yes
L24314	CB24316	CB24314	461.23	0.61	CIRCULAR	18	18	8	880.8	877.0	10	Yes
L24316	CB24318	CB24316	345.34	0.82	CIRCULAR	15	15	6	881.8	880.8	5	Yes
L24321	P24324	P24322	48.00	0.35	CIRCULAR	12	12	2	861.4	860.3	4	No
L24323	CB24330	P24322	20.00	0.35	CIRCULAR	15	15	4	860.3	860.3	8	Yes
L24324	P24326	P24324	610.00	0.49	CIRCULAR	15	15	5	863.0	861.4	4	No
L24326	CB25128	P24326	154.00	1.30	CIRCULAR	15	15	7	865.4	863.0	5	No
L24331	CB24332	P24330	133.00	0.45	CIRCULAR	24	24	15	863.6	863.6	15	Yes
L24332	CB24334	CB24332	125.88	0.47	CIRCULAR	24	24	15	863.6	863.6	12	Yes

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L24333	CB24342	CB24332	76.09	1.25	CIRCULAR	24	24	25	863.6	863.6	12	No
L24334	CB24336	CB24334	65.55	0.24	CIRCULAR	18	18	5	863.9	863.6	9	Yes
L24336	CB24338	CB24336	113.46	1.60	CIRCULAR	15	15	8	864.5	863.9	5	No
L24338	CB24340	CB24338	68.00	7.51	CIRCULAR	15	15	15	869.1	864.5	3	No
L24344	CB24346	CB24344	261.34	0.23	CIRCULAR	24	24	11	864.9	863.6	7	No
L24346	CB24348	CB24346	196.90	0.23	CIRCULAR	24	24	11	865.1	864.9	6	No
L24348	P24350	CB24348	36.00	0.19	CIRCULAR	12	12	2	866.7	865.1	6	Yes
L24350	CB24352	P24350	171.00	7.60	CIRCULAR	12	12	10	878.5	866.7	4	No
L24354	CB24356	P24354	36.00	1.39	CIRCULAR	24	24	27	867.1	865.1	28	No
L24356	CB24358	CB24356	194.91	1.80	CIRCULAR	24	24	30	870.6	867.1	28	Yes
L24357	CB24364	CB24358	163.15	0.61	CIRCULAR	12	12	3	872.7	870.6	4	Yes
L24358	CB24360	CB24358	428.23	3.74	CIRCULAR	24	24	38	885.0	870.6	18	No
L24359	CB24362	CB24358	36.32	3.30	CIRCULAR	12	12	6	881.0	870.6	7	Yes
L24366	P24368	P24366	100.00	0.20	CIRCULAR	18	18	4	861.2	860.6	3	No
L24368	CB24370	P24368	65.00	0.31	CIRCULAR	15	15	4	866.3	861.2	12	Yes
L24369	CB24374	P24368	52.00	0.96	CIRCULAR	15	15	6	862.4	861.2	5	No
L24370	CB24372	CB24370	247.55	1.94	CIRCULAR	15	15	9	871.1	866.3	9	Yes
L24374	CB24392	P24374	67.00	0.60	CIRCULAR	15	15	5	864.3	862.1	8	No
L24375	CB24376	P24374	135.00	0.19	CIRCULAR	21	21	7	864.9	862.1	14	No
L24376	CB25478	CB24376	427.93	0.68	CIRCULAR	21	21	13	868.3	864.9	14	Yes
L24387	P24392	CB24388	27.82	3.63	CIRCULAR	12	12	7	865.0	864.9	4	No
L24388	CB24388	CB24376	209.48	0.35	CIRCULAR	15	15	4	864.9	864.9	2	Yes
L24389	CB24390	CB24388	213.97	0.24	CIRCULAR	15	15	3	860.4	864.9	3	No
L24390	J24390	P24391	73.71	4.07	CIRCULAR	18	18	18	861.2	861.2	1	No
L24391	J24391	P24389	16.00	4.63	CIRCULAR	18	18	20	869.9	860.8	12	No
L24392	J24392	J24391	148.00	0.50	CIRCULAR	18	18	6	873.3	869.9	12	Yes
L24393	J24393	J24392	337.00	0.50	CIRCULAR	18	18	6	875.4	873.3	7	Yes
L24394	J24394	J24393	289.00	0.61	CIRCULAR	18	18	7	875.7	875.4	7	Yes

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L24395	J24395	J24394	96.01	1.84	CIRCULAR	15	15	8	871.8	875.7	10	Yes
L24396	CB23228	J24395	248.00	3.40	CIRCULAR	15	15	10	876.7	871.8	6	No
L24TH47	P24366	P24212	129.00	0.50	CIRCULAR	15	15	5	860.6	859.6	1	No
L24TH47-1	P24212	J24tH47-1	40.00	0.12	Arch	11	18	2	859.6	860.1	4	No
L24TH47-2	J24tH47-1	J24TH47-2	197.00	0.14	Arch	11	18	2	860.1	861.5	4	Yes
L24TH47-3	J24TH47-2	P24374	72.00	0.18	Arch	11	18	2	861.5	862.1	4	Yes
L24TH47-4	P24374	J24TH47-3	153.86	0.08	Arch	11	18	1	862.1	861.3	3	Yes
L24TH47-5	J24TH47-3	J24TH47-4	192.00	0.15	Arch	11	18	2	861.3	860.5	3	Yes
L24TH47-6	J24TH47-4	D43-CB444	270.00	0.15	Arch	11	18	2	860.5	860.4	3	Yes
L24TH47-7	D43-CB444	CB24390	30.00	0.27	Arch	11	18	3	860.4	860.4	3	Yes
L25100	CB25102	O-25-1-02	292.23	3.10	CIRCULAR	30	30	72	854.3	845.0	53	No
L25102	CB25104	CB25102	420.00	0.54	CIRCULAR	30	30	30	859.5	854.3	37	No
L25104	CB25106	CB25104	360.02	0.47	CIRCULAR	27	27	21	860.3	859.5	14	Yes
L25105	CB25108	CB25104	219.32	0.23	CIRCULAR	18	18	4	867.6	859.5	13	No
L25106	CB25110	CB25106	186.34	9.03	CIRCULAR	15	15	19	876.5	860.3	7	No
L25108	CB24390	CB25106	375.86	0.13	CIRCULAR	27	27	11	860.4	860.3	6	Yes
L25114	CB25116	CB25114	349.60	0.21	CIRCULAR	18	18	5	864.0	861.5	9	Yes
L25116	CB25118	CB25116	105.68	0.47	CIRCULAR	12	12	2	862.9	864.0	6	Yes
L25118	CB25420	CB25118	218.94	2.28	CIRCULAR	12	12	5	863.6	862.9	3	Yes
L25120	CB25122	O-25-1-01	215.00	7.44	CIRCULAR	18	18	29	866.7	851.9	13	No
L25200	CB25202	O-25-2-05	163.41	0.31	CIRCULAR	24	24	13	854.6	853.9	7	No
L25202	P25204	CB25202	115.84	0.43	CIRCULAR	24	24	15	854.9	854.6	6	No
L25204	CB25114	P25204	220.00	0.34	CIRCULAR	18	18	6	861.5	854.9	9	No
L25206	CB25208	O-25-2-04	214.21	0.23	CIRCULAR	18	18	5	853.5	850.7	10	No
L25210	CB25212	O-25-2-03	220.00	2.93	CIRCULAR	18	18	18	852.1	849.0	10	Yes
L25214	P25216	O-25-2-01a	140.00	0.21	CIRCULAR	48	48	66	850.1	849.3	38	No
L25216	CB25218	P25216	130.00	0.37	CIRCULAR	48	48	87	850.3	850.1	47	No
L25218	CB25220	CB25218	274.00	0.19	CIRCULAR	42	42	44	851.5	850.3	42	No

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L25220	CB25222	CB25220	133.11	0.44	CIRCULAR	30	30	27	852.5	851.5	27	No
L25221	CB25232	CB25220	555.34	0.61	CIRCULAR	15	15	5	857.9	851.5	7	Yes
L25222	CB25224	CB25222	575.08	0.39	CIRCULAR	30	30	26	854.2	852.5	21	No
L25224	CB25226	CB25224	59.08	0.41	CIRCULAR	27	27	20	854.7	854.2	18	No
L25225	CB25236	CB25220	349.00	0.10	CIRCULAR	36	36	21	851.6	851.5	20	No
L25226	CB25228	CB25226	296.51	0.42	CIRCULAR	24	24	15	855.2	854.7	10	No
L25228	CB25230	CB25228	133.48	0.78	CIRCULAR	12	12	3	858.4	855.2	5	Yes
L25232	CB36136	CB25232	208.57	0.48	CIRCULAR	12	12	2	859.2	857.9	5	Yes
L25233	CB25234	CB25232	76.26	3.93	CIRCULAR	12	12	7	858.7	857.9	4	Yes
L25236	P36400	CB25236A	236.00	0.33	CIRCULAR	36	36	39	852.4	851.6	20	No
L25236A	CB25236A	CB25236	90.00	0.71	CIRCULAR	36	36	56	851.6	851.6	20	No
L25301	CB25302	P36400	40.00	0.18	CIRCULAR	15	15	3	855.3	852.4	13	Yes
L25302	P25304	CB25302	89.63	0.30	CIRCULAR	15	15	4	855.1	855.3	8	Yes
L25303	FES25301	CB25340	217.12	1.65	CIRCULAR	15	15	8	867.8	864.4	8	Yes
L25306	CB25306	P25304	140.00	0.17	CIRCULAR	24	24	9	855.2	855.1	17	Yes
L25307	CB25308	P36400	172.00	0.10	CIRCULAR	36	36	21	853.6	852.4	41	No
L25308	CB25310	CB25308	280.08	0.10	CIRCULAR	36	36	21	854.2	853.6	29	Yes
L25310	CB25312	CB25310	314.81	0.10	CIRCULAR	36	36	21	855.5	854.2	23	Yes
L25312	CB25314	CB25312	289.61	0.09	CIRCULAR	24	24	7	854.7	855.5	7	Yes
L25313	CB25316	CB25312	170.00	0.29	CIRCULAR	30	30	22	854.9	855.5	16	Yes
L25316	CB25318	CB25316	154.03	0.14	CIRCULAR	27	27	12	855.1	854.9	15	Yes
L25317	CB36418	CB25312	129.05	0.42	CIRCULAR	12	12	2	856.5	855.5	3	Yes
L25318	CB25320	CB25318	145.08	0.05	CIRCULAR	27	27	7	855.1	855.1	15	Yes
L25319	P25317	P26200	164.00	1.15	CIRCULAR	12	12	4	864.0	856.7	4	No
L25320	CB25322	CB25320	112.54	0.08	CIRCULAR	27	27	9	855.1	855.1	14	Yes
L25321	P25319	CB25331	10.00	2.00	CIRCULAR	15	15	9	866.9	862.5	3	No
L25322	CB25324	CB25322	184.35	0.20	CIRCULAR	27	27	14	855.0	855.1	14	Yes
L25323	CB25323	CB25325	421.45	0.88	CIRCULAR	18	18	10	870.4	867.5	1	No

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L25324	CB25326	CB25324	93.53	0.10	CIRCULAR	27	27	10	855.3	855.0	14	Yes
L25325	CB25325	CB25328	493.16	0.50	CIRCULAR	24	24	16	867.5	865.5	9	No
L25327	CB25327	CB25325	203.11	1.88	CIRCULAR	15	15	9	872.2	867.5	9	No
L25328	CB25330	P25328	112.00	0.18	CIRCULAR	18	18	4	860.0	855.3	21	Yes
L25329	P25321	CB25329	283.09	-0.16	CIRCULAR	15	15	3	876.6	876.3	1	No
L25330	CB25332	CB25330	228.73	0.44	CIRCULAR	18	18	7	860.1	860.0	10	Yes
L25331	CB25329	CB25360	53.35	1.48	CIRCULAR	18	18	13	876.3	875.8	1	No
L25332	CB25335	CB25332	466.28	0.21	CIRCULAR	18	18	5	861.0	860.1	8	Yes
L25334	CB25336	CB25335	400.04	0.20	CIRCULAR	15	15	3	861.2	861.0	5	Yes
L25336	CB25338	CB25336	99.80	0.20	CIRCULAR	15	15	3	861.2	861.2	5	Yes
L25339	CB25331	P25328	72.05	0.28	CIRCULAR	15	15	3	862.5	855.3	12	Yes
L25340	CB25340	CB25341	99.97	0.17	CIRCULAR	18	18	4	864.4	863.5	8	No
L25341	CB25341	CB25342	170.25	0.64	CIRCULAR	18	18	8	863.5	861.0	8	No
L25342	CB25342	CB25344	186.28	0.27	CIRCULAR	30	30	21	861.0	865.8	13	Yes
L25344	CB25344	P25315	179.99	0.22	CIRCULAR	30	30	19	865.8	861.0	17	Yes
L25346	CB25346	CB25348	57.18	0.38	CIRCULAR	15	15	4	886.2	885.3	6	Yes
L25348	CB25348	CB25350	140.92	0.30	CIRCULAR	15	15	4	885.3	878.8	6	No
L25350	CB25350	P25321	198.40	0.25	CIRCULAR	15	15	3	878.8	876.6	6	No
L25352	CB25352	CB25354	65.35	0.58	CIRCULAR	12	12	3	876.6	876.6	0	No
L25354	CB25354	P25321	177.99	0.29	CIRCULAR	18	18	6	876.6	876.6	0	No
L25356	CB25356	CB25358	38.14	1.18	CIRCULAR	12	12	4	875.8	875.8	0	No
L25358	CB25358	CB25360	158.78	1.37	CIRCULAR	18	18	12	875.8	875.8	0	No
L25360	CB25360	CB25323	209.09	-0.21	CIRCULAR	18	18	5	875.8	870.4	1	No
L25362	FES25362	CB25364	150.25	3.37	CIRCULAR	15	15	12	872.1	867.0	0	No
L25364	CB25364	CB25342	160.13	3.73	CIRCULAR	15	15	12	867.0	861.0	0	No
L25366	CB25366	CB25368	145.00	1.12	CIRCULAR	12	12	4	878.8	876.8	3	No
L25368	CB25368	CB25370	101.00	3.18	CIRCULAR	12	12	6	876.8	867.2	3	No
L25370	CB25370	P25319	295.12	0.78	CIRCULAR	18	18	9	867.2	866.9	3	No

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
L25372	CB25372	CB25370	53.00	0.32	CIRCULAR	12	12	2	867.2	867.2	0	No
L25374	CB25374	P25319	53.00	0.81	CIRCULAR	12	12	3	866.9	866.9	0	No
L25376	CB25376	P25319	49.00	0.59	CIRCULAR	18	18	8	866.9	866.9	0	No
L25400	P25400	P24366	1295.66	0.39	CIRCULAR	15	15	4	866.8	860.6	2	No
L25402	P25402	CB25442	193.44	1.66	CIRCULAR	18	18	14	873.2	870.8	12	Yes
L25404	CB25404	P24366	143.00	0.35	CIRCULAR	15	15	4	863.4	860.6	6	No
L25405	CB25406	P24366	142.00	0.14	CIRCULAR	21	21	6	865.1	860.6	19	No
L25406	CB25408	CB25406	191.02	0.19	CIRCULAR	21	21	7	866.8	865.1	16	Yes
L25408	CB25410	CB25408	131.76	0.45	CIRCULAR	21	21	11	867.2	866.8	12	Yes
L25410	CB25412	CB25410	444.78	2.21	CIRCULAR	15	15	10	876.1	867.2	9	Yes
L25413	CB25414	P24366	120.00	0.42	CIRCULAR	18	18	7	864.0	860.6	8	No
L25414	CB25416	CB25414	256.00	0.23	CIRCULAR	18	18	5	864.5	864.0	6	Yes
L25416	CB25418	CB25416	179.01	0.61	CIRCULAR	15	15	5	863.9	864.5	5	Yes
L25418	P26176	CB25418	120.00	0.18	CIRCULAR	15	15	3	864.7	863.9	5	Yes
L25420	P25424	CB25420	27.10	3.69	CIRCULAR	12	12	7	863.6	863.6	2	Yes
L25424	CB25422	P25424	63.00	3.97	CIRCULAR	15	15	13	866.9	863.6	2	No
L25425	P25426	P25424	237.73	0.21	CIRCULAR	15	15	3	857.3	863.6	1	No
L25432	CB25434	CB25432	95.62	0.52	CIRCULAR	18	18	8	881.2	880.6	0	No
L25436	CB25438	CB25436	414.27	1.45	CIRCULAR	15	15	8	880.1	879.9	6	Yes
L25438	CB25440	CB25438	42.73	0.47	CIRCULAR	15	15	4	880.2	880.1	5	Yes
L25439	P25442	CB25438	157.24	1.27	CIRCULAR	12	12	4	879.1	880.1	4	Yes
L25444	P25454	CB25444	180.08	0.28	CIRCULAR	18	18	6	867.5	865.8	7	No
L25445	CB25447	CB25444	223.34	1.00	CIRCULAR	15	15	6	871.2	865.8	7	No
L254454	CB25442	P25454	146.97	1.22	CIRCULAR	18	18	12	870.8	867.5	13	Yes
L25446	CB25444	CB25446	72.39	5.37	CIRCULAR	21	21	37	865.8	864.5	14	No
L25447	P25456	CB25446	58.38	3.24	CIRCULAR	12	12	6	865.1	864.5	5	Yes
L25448	CB25446	CB25448	66.72	0.91	CIRCULAR	24	24	22	864.5	863.9	17	Yes
L25450	CB25448	CB25450	215.21	0.23	CIRCULAR	24	24	11	863.9	862.4	18	Yes

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L25452	CB25450	CB25452	222.88	0.36	CIRCULAR	24	24	14	862.4	860.8	18	No
L25454	CB25452	P25458	115.80	0.43	CIRCULAR	24	24	15	860.8	860.0	20	Yes
L25468	CB25466	CB25468	47.11	1.13	CIRCULAR	12	12	4	875.7	875.7	2	Yes
L25469	CB25466	CB25468	47.30	1.12	CIRCULAR	12	12	4	875.7	875.7	2	Yes
L25478	CB25486	CB25478	57.35	0.51	CIRCULAR	15	15	5	868.8	868.3	7	Yes
L25479	CB25480	CB25478	137.75	2.06	CIRCULAR	15	15	9	870.9	868.3	9	Yes
L25480	CB25482	CB25480	336.30	0.15	CIRCULAR	15	15	2	871.4	870.9	4	Yes
L25482	P25484	CB25482	98.15	1.53	CIRCULAR	12	12	4	871.0	871.4	3	No
L25488	P25488	P25490	210.00	0.00	CIRCULAR	18	18	0	876.3	876.3	1	Yes
L26102	CB26104	CB26102	71.73	0.78	CIRCULAR	15	15	6	867.6	867.3	5	Yes
L26104	CB26106	CB26104	108.03	0.78	CIRCULAR	12	12	3	867.6	867.6	3	Yes
L26106	CB26110	CB26106	173.29	0.78	CIRCULAR	12	12	3	867.7	867.6	3	Yes
L26110	P26112	CB26110	25.76	0.70	CIRCULAR	12	12	3	867.7	867.7	2	Yes
L26113	CB26114	J26186	85.00	2.35	CIRCULAR	12	12	5	863.6	860.9	5	No
L26115	CB26116	J26184	75.00	0.37	CIRCULAR	15	15	4	863.3	860.8	8	No
L26117	P26118	J26186	125.00	0.16	CIRCULAR	24	24	9	861.5	860.9	9	No
L26118	CB26122	P26118	52.00	0.38	CIRCULAR	24	24	14	862.7	861.5	13	No
L26119	CB26120	P26118	45.00	1.11	CIRCULAR	15	15	7	865.0	861.5	7	No
L26123	CB26124	CB26122	81.07	0.74	CIRCULAR	15	15	6	865.4	862.7	2	No
L26124	CB26126	CB26122	397.31	0.80	CIRCULAR	18	18	9	865.8	862.7	9	Yes
L26126	CB26456	CB26126	646.00	0.63	CIRCULAR	18	18	8	869.2	865.8	6	No
L26127	CB26128	J26180	130.00	1.21	CIRCULAR	27	27	34	862.0	860.0	15	No
L26128	CB26134	CB26128	97.50	1.38	CIRCULAR	18	18	12	862.8	862.0	5	No
L26129	CB26130	CB26128	317.70	1.98	CIRCULAR	15	15	9	867.7	862.0	5	No
L26130	CB26132	CB26130	204.02	1.87	CIRCULAR	12	12	5	871.5	867.7	3	No
L26134	CB26138	CB26134	176.50	1.04	CIRCULAR	18	18	11	864.6	862.8	4	No
L26135	P26136	CB26134	235.90	3.76	CIRCULAR	15	15	13	871.3	862.8	2	No
L26138	CB26142	CB26138	199.09	0.86	CIRCULAR	15	15	6	865.7	864.6	0	No

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L26139	CB26140	CB26138	62.22	1.19	CIRCULAR	12	12	4	872.3	864.6	4	No
L26145	CB26146	J26180	138.00	1.30	CIRCULAR	24	24	26	864.2	860.0	17	No
L26146	CB26148	CB26146	307.50	0.47	CIRCULAR	21	21	11	866.4	864.2	13	No
L26148	CB26186	CB26148	664.02	0.47	CIRCULAR	21	21	11	868.6	866.4	9	No
L26149	CB26150	J26182	73.00	5.89	CIRCULAR	12	12	9	864.3	860.4	4	No
L26151	CB26152	J26182	92.00	3.59	CIRCULAR	15	15	12	863.5	860.4	6	No
L26153	CB26156	CB26154	83.15	0.36	CIRCULAR	18	18	6	860.9	860.6	5	No
L26154	P26158	CB26156	118.00	0.42	CIRCULAR	18	18	7	861.2	860.9	5	No
L26156	CB26162	CB26160	167.01	0.34	CIRCULAR	15	15	4	866.1	864.3	8	Yes
L26158	CB26160	P26158	51.00	0.33	CIRCULAR	15	15	4	864.3	861.2	11	Yes
L26159	CB26166	P26158	156.00	5.45	CIRCULAR	15	15	15	875.7	861.2	16	Yes
L26162	CB26164	CB26162	76.83	0.35	CIRCULAR	12	12	2	866.1	866.1	4	Yes
L26166	CB25468	CB26166	235.65	0.70	CIRCULAR	15	15	5	875.7	875.7	8	Yes
L26167	CB25472	CB26166	196.25	1.83	CIRCULAR	12	12	5	873.4	875.7	3	No
L26168	CB26170	P26168	141.00	0.71	CIRCULAR	15	15	5	865.6	861.5	11	No
L26169	CB25430	P26168	114.00	0.88	CIRCULAR	18	18	10	869.3	861.5	1	No
L26170	CB26172	CB26170	221.03	1.81	CIRCULAR	15	15	9	869.0	865.6	8	Yes
L26171	CB26174	CB26170	68.67	1.46	CIRCULAR	12	12	4	866.1	865.6	5	Yes
L26172	CB25436	CB26172	414.30	1.21	CIRCULAR	15	15	7	879.9	869.0	10	Yes
L26176	CB26178	P26176	343.00	0.76	CIRCULAR	15	15	6	867.9	864.7	4	No
L26178	CB23280	CB26178	237.00	0.16	CIRCULAR	15	15	3	869.1	867.9	4	No
L26187	P26190	CB26186	109.70	0.59	CIRCULAR	12	12	3	869.0	868.6	3	Yes
L26200	P26204	P26200	170.00	0.41	CIRCULAR	15	15	4	860.0	856.7	6	No
L26201	CB26102	J26188	320.00	0.18	CIRCULAR	15	15	3	867.3	861.1	7	No
L26203	CB26154	P26204	180.00	0.11	CIRCULAR	18	18	4	860.6	860.0	5	No
L26206	CB26206	P26204	150.00	2.47	CIRCULAR	15	15	10	865.8	860.0	13	Yes
L26207	CB26208	P26204	100.00	0.27	CIRCULAR	30	30	21	860.0	860.0	28	Yes
L26208	CB26210	CB26208	68.80	0.29	CIRCULAR	15	15	3	862.6	860.0	9	No

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L26209	P26206	CB26208	635.00	0.26	CIRCULAR	30	30	21	861.2	860.0	23	No
L26211	CB26212	P26204	115.00	2.17	CIRCULAR	30	30	60	861.8	860.0	22	No
L26212	CB26214	CB26212	71.93	1.39	CIRCULAR	27	27	37	863.1	861.8	18	No
L26214	CB26216	CB26214	90.91	0.77	CIRCULAR	24	24	20	863.7	863.1	12	No
L26215	P25315	P26204	52.00	0.54	CIRCULAR	12	12	3	861.0	860.0	4	No
L26216	CB26218	CB26216	73.09	0.82	CIRCULAR	21	21	14	864.2	863.7	10	No
L26218	CB26220	CB26218	85.90	1.98	CIRCULAR	15	15	9	866.1	864.2	8	Yes
L26220	CB26222	CB26220	193.09	0.26	CIRCULAR	12	12	2	869.0	866.1	5	Yes
L26302	CB26304	CB26302	66.94	0.25	CIRCULAR	18	18	5	863.8	863.7	11	Yes
L26303	CB26316	CB26302	672.41	0.52	CIRCULAR	24	24	16	868.2	863.7	15	Yes
L26304	CB26308	CB26304	334.10	2.28	CIRCULAR	18	18	16	871.4	863.8	15	Yes
L26307	CB26302	P26206	210.00	0.09	CIRCULAR	30	30	12	863.7	861.2	41	No
L26309	CB26314	CB26308	292.78	1.19	CIRCULAR	15	15	7	876.8	871.4	8	Yes
L26310	CB26312	CB26310	698.89	0.86	CIRCULAR	15	15	6	881.9	876.1	6	Yes
L26311	CB26328	P26308	120.00	0.40	CIRCULAR	24	24	14	874.9	874.1	26	Yes
L26315	CB26336	P26310	120.50	2.00	CIRCULAR	15	15	9	874.1	874.1	8	Yes
L26316	CB26318	CB26316	208.59	0.36	CIRCULAR	24	24	14	869.5	868.2	16	Yes
L26317	CB26338	P26310	188.00	4.52	CIRCULAR	30	30	87	877.6	874.1	35	No
L26318	CB26320	CB26318	190.70	1.30	CIRCULAR	21	21	18	870.1	869.5	16	Yes
L26320	CB26322	CB26320	138.21	0.12	CIRCULAR	18	18	4	871.1	870.1	12	Yes
L26321	CB26326	CB26320	346.62	0.78	CIRCULAR	15	15	6	870.2	870.1	4	No
L26322	CB26324	CB26322	301.46	1.86	CIRCULAR	15	15	9	876.2	871.1	8	Yes
L26323	P26304	CB26322	132.89	1.14	CIRCULAR	18	18	11	871.4	871.1	10	Yes
L26325	CB26348	P26312	22.00	0.23	CIRCULAR	18	18	5	856.2	854.8	13	No
L26326	P26306	MH28328	300.00	0.10	CIRCULAR	15	15	2	872.7	871.6	4	No
L26327	CB26344	P26312	30.00	0.67	CIRCULAR	21	21	13	858.0	854.8	17	No
L26328	CB28329	P26306	224.00	0.21	CIRCULAR	15	15	3	873.8	872.7	6	Yes
L26329	CB26330	CB26328	250.00	0.35	CIRCULAR	18	18	6	875.5	874.9	7	Yes

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L26330	CB26332	CB26330	297.42	0.31	CIRCULAR	18	18	6	876.5	875.5	7	Yes
L26331	CB26224	P26312	80.00	0.25	CIRCULAR	12	12	2	860.5	854.8	7	Yes
L26332	CB26334	CB26332	400.00	0.41	CIRCULAR	15	15	4	879.1	876.5	5	Yes
L26333	CB26354	P26312	165.00	0.91	CIRCULAR	15	15	6	868.0	854.8	9	No
L26338	CB26340	CB26338	459.35	0.11	CIRCULAR	24	24	7	881.8	877.6	18	No
L26341	CB28330	CB26328	30.00	1.20	CIRCULAR	15	15	7	874.2	874.9	6	Yes
L26344	CB26346	CB26344	142.48	4.74	CIRCULAR	15	15	14	865.8	858.0	16	Yes
L26345	CB26344	P26302	17.00	-1.18	CIRCULAR	24	24	2	858.0	856.0	23	Yes
L26348	CB26350	CB26348	87.98	6.50	CIRCULAR	15	15	16	865.6	856.2	13	No
L26350	CB26352	CB26350	54.36	2.72	CIRCULAR	15	15	11	866.7	865.6	6	Yes
L26402	CB26404	P26402	186.00	0.39	CIRCULAR	18	18	7	867.2	864.8	9	No
L26403	CB26412	P26402	28.00	2.14	CIRCULAR	15	15	8	865.9	864.8	6	No
L26404	CB26406	CB26404	127.71	0.98	CIRCULAR	18	18	10	867.3	867.2	4	No
L26406	CB26408	CB26406	221.12	0.92	CIRCULAR	15	15	6	868.9	867.3	4	No
L26408	CB26310	CB26308	265.14	1.44	CIRCULAR	15	15	8	876.1	871.4	8	Yes
L26409	CB26410	CB26408	156.28	0.47	CIRCULAR	15	15	4	870.0	868.9	4	No
L26413	CB26414	P26400	48.00	0.75	CIRCULAR	18	18	9	862.9	860.0	15	No
L26414	CB26416	CB26414	270.63	0.15	CIRCULAR	18	18	4	863.7	862.9	6	Yes
L26415	P26226	CB26414	120.00	4.20	CIRCULAR	15	15	13	862.0	862.9	0	No
L26416	CB26418	CB26416	88.01	0.27	CIRCULAR	18	18	5	864.0	863.7	6	Yes
L26418	P26420	CB26418	202.07	0.08	CIRCULAR	15	15	2	862.1	864.0	3	No
L26422	CB26422	CB26414	214.72	0.24	CIRCULAR	15	15	3	864.7	862.9	7	Yes
L26423	P26424	P26400	150.00	0.33	CIRCULAR	24	24	13	860.7	860.0	3	No
L26426	P26226	P26428	33.00	1.21	CIRCULAR	12	12	4	862.0	862.0	4	Yes
L26428	CB26430	P26428	80.00	0.21	CIRCULAR	36	36	31	862.0	862.0	12	No
L26430	CB26432	CB26430	68.14	0.76	CIRCULAR	15	15	6	869.4	862.0	1	No
L26431	CB26434	CB26430	138.90	0.22	CIRCULAR	36	36	31	862.0	862.0	9	No
L26434	CB26436	CB26434	294.96	0.19	CIRCULAR	33	33	23	862.2	862.0	7	No

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L26436	CB26438	CB26436	113.74	0.21	CIRCULAR	27	27	14	862.4	862.2	6	No
L26438	CB26440	CB26438	227.48	0.20	CIRCULAR	21	21	7	862.6	862.4	2	No
L26440	CB26442	CB26440	232.65	0.35	CIRCULAR	15	15	4	863.0	862.6	1	No
L26442	P26144	CB26442	306.76	0.15	CIRCULAR	15	15	2	863.6	863.0	1	No
L26445	CB26446	P26428	81.00	1.00	CIRCULAR	15	15	6	862.0	862.0	6	No
L26446	CB26448	CB26446	90.70	3.12	CIRCULAR	15	15	11	864.3	862.0	6	No
L26448	CB26450	CB26448	149.29	0.35	CIRCULAR	15	15	4	865.4	864.3	4	No
L26450	CB26452	CB26450	135.32	0.35	CIRCULAR	15	15	4	865.6	865.4	2	No
L26452	CB26454	CB26452	224.07	0.33	CIRCULAR	15	15	4	865.8	865.6	1	No
L26456	P26458	CB26456	69.80	0.90	CIRCULAR	15	15	6	869.2	869.2	1	No
L26458	CB26460	P26458	125.00	0.58	CIRCULAR	15	15	5	869.2	869.2	8	Yes
L26460	CB26462	CB26460	68.88	0.38	CIRCULAR	15	15	3	869.2	869.2	8	Yes
L26462	CB26464	CB26462	114.15	0.25	CIRCULAR	15	15	3	870.1	869.2	7	Yes
L26463	CB26263	CB26462	94.18	7.78	CIRCULAR	12	12	10	872.0	869.2	2	No
L26464	CB26466	CB26464	163.76	0.52	CIRCULAR	15	15	5	871.1	870.1	5	Yes
L26466	CB26468	CB26466	50.57	0.85	CIRCULAR	15	15	6	871.2	871.1	3	Yes
L26467	CB26476	CB26466	62.62	0.70	CIRCULAR	18	18	9	871.2	871.1	4	Yes
L26468	CB26470	CB26468	143.74	0.49	CIRCULAR	15	15	5	871.2	871.2	2	Yes
L26470	CB26472	CB26470	236.36	0.50	CIRCULAR	15	15	5	871.4	871.2	3	Yes
L26472	CB26474	CB26472	103.95	5.37	CIRCULAR	15	15	15	873.8	871.4	3	No
L26476	CB26478	CB26476	101.05	0.76	CIRCULAR	15	15	6	871.2	871.2	3	Yes
L26478	CB26480	CB26478	146.10	0.17	CIRCULAR	15	15	3	871.2	871.2	3	Yes
L26480	CB26482	CB26480	110.88	4.88	CIRCULAR	12	12	8	872.9	871.2	4	No
L26482	CB26484	CB26482	107.55	0.60	CIRCULAR	12	12	3	873.8	872.9	2	No
L26486	CB26188	CB26186	70.92	0.47	CIRCULAR	15	15	4	868.8	868.6	4	No
L28312	CB28330	CB28329	10.00	0.40	CIRCULAR	15	15	4	874.2	873.8	6	Yes
L28313	P26312	P28313	140.00	-1.09	CIRCULAR	18	18	9	854.8	853.9	2	No
L28315	P28313	J28317	35.00	0.00	CIRCULAR	18	18	1	853.9	853.9	4	Yes

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
L28317	J28317	O28301	40.00	1.33	CIRCULAR	24	24	26	853.9	853.0	1	No
L28328	MH28328	MH28329	23.00	0.74	CIRCULAR	15	15	6	871.6	871.4	4	No
L28329	MH28329	CB26326	137.00	0.51	CIRCULAR	15	15	5	871.4	870.2	4	No
L36400	CB36406	P36400	240.00	0.42	CIRCULAR	24	24	15	855.2	852.4	21	No
L36401	CB36402	P36400	184.00	0.27	CIRCULAR	18	18	5	853.3	852.4	7	No
L36402	CB36404	CB36402	132.52	0.38	CIRCULAR	12	12	2	854.4	853.3	3	Yes
L36406	CB36408	CB36406	333.90	0.46	CIRCULAR	15	15	4	855.9	855.2	5	Yes
L36407	CB36414	CB36406	116.23	0.50	CIRCULAR	18	18	7	856.2	855.2	11	Yes
L36408	CB36410	CB36408	98.14	0.46	CIRCULAR	15	15	4	857.1	855.9	1	Yes
L36409	CB36412	CB36408	111.18	0.40	CIRCULAR	15	15	4	857.5	855.9	4	Yes
L36414	CB36416	CB36414	174.66	0.50	CIRCULAR	15	15	5	856.5	856.2	3	Yes
Link-28	CB25328	P25317	198.62	0.20	CIRCULAR	24	24	10	865.5	864.0	9	No

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
L13202	CB13204	J144278	177.65	3.34	CIRCULAR	18	18	19	864.0	856.9	19	YES
L13203	J144278	O-13-2-01	144.46	3.39	CIRCULAR	18	18	19	856.9	857.6	18	YES
L13204	CB13206	CB13204 A	107.3	0.4	CIRCULAR	21	21	10	865.4	864.5	13	YES
L13204 A	CB13204 A	CB13204	55.47	0.7	CIRCULAR	21	21	13	864.5	864.0	13	YES
L13206	CB13208	CB13206	394.22	0.36	CIRCULAR	21	21	9	865.6	865.4	11	YES
L13208	CB13210	CB13208	138	0.11	CIRCULAR	21	21	5	864.5	865.6	19	YES
L13209	CB13312	CB13208	158.18	5.37	CIRCULAR	12	12	8	872.7	865.6	9	YES
L13210	CB24112	CB13210	259	0.15	CIRCULAR	21	21	6	864.6	864.5	8	YES
L13402	J13404	J13402	67.47	0.13	CIRCULAR	48	48	31	857.8	856.1	110	YES
L13406	P13408	J13406	64.21	0.16	CIRCULAR	36	36	31	859.4	857.9	104	YES
L14102	P14104	CB14102	32	-6.25	CIRCULAR	12	12	9	866.3	866.0	3	YES
L14104	CB14106	P14104	99	0.32	CIRCULAR	21	21	9	866.4	866.3	11	YES
L14106	CB14108	CB14106	154.29	0.4	CIRCULAR	18	18	7	868.0	866.4	9	YES
L14108	CB14110	CB14108	181.64	0.3	CIRCULAR	18	18	6	868.0	868.0	8	YES
L14110	CB14112	CB14110	131.54	6.13	CIRCULAR	15	15	16	873.5	868.0	4	NO
L14111	CB14114	CB14110	216.58	0.48	CIRCULAR	12	12	2	869.0	868.0	2	YES
L14112	CB14214	CB14212	464.48	0.11	CIRCULAR	18	18	3	887.0	885.6	7	YES
L14116	P14118	CB14116	91.84	0.54	CIRCULAR	18	18	8	863.1	862.2	7	NO
L14118	CB14120	P14118	24	2.08	CIRCULAR	12	12	5	864.5	863.1	6	NO
L14120	P14122	CB14120	25	-20	CIRCULAR	12	12	16	865.6	864.5	6	YES
L14121	CB14134	P14122	149	0.68	CIRCULAR	21	21	13	865.6	865.6	11	NO
L14122	CB14124	P14122	149	0.3	CIRCULAR	24	24	12	865.6	865.6	15	YES
L14123	CB14132	CB14124	186.87	0.49	CIRCULAR	15	15	5	865.9	865.6	3	YES
L14124	CB14126	CB14124	136.24	0.34	CIRCULAR	21	21	9	866.6	865.6	10	YES
L14126	CB14128	CB14126	143.75	0.24	CIRCULAR	18	18	5	867.3	866.6	7	YES
L14127	P14126	P14118	503.35	0.16	CIRCULAR	12	12	1	866.9	863.1	1	NO
L14128	CB14130	CB14128	411.79	0.45	CIRCULAR	15	15	4	869.1	867.3	5	YES
L14132	P14124	J14132	389.16	1.54	Rectangular	48	48	227	870.2	861.1	3	NO

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L14134	CB14136	CB14134	288.03	1.39	CIRCULAR	18	18	12	868.9	865.6	8	NO
L14135	CB14142	CB14134	127.76	3.24	CIRCULAR	15	15	12	868.6	865.6	3	NO
L14136	CB14138	CB14136	25.16	1.79	CIRCULAR	15	15	9	869.0	868.9	2	NO
L14137	P14140	CB14136	212.98	0.42	CIRCULAR	12	12	2	869.4	868.9	1	NO
L14202	CB14204	P14202	180	1.67	CIRCULAR	36	36	86	873.2	868.7	63	NO
L14204	CB14206	CB14204	216.41	1.39	CIRCULAR	36	36	79	876.0	873.2	52	NO
L14205	CB14242	CB14204	41.31	1.21	CIRCULAR	15	15	7	874.2	873.2	8	YES
L14206	CB14208	CB14206	184.31	0.43	CIRCULAR	36	36	44	877.4	876.0	46	NO
L14207	CB14230	CB14206	198.09	3.03	CIRCULAR	12	12	6	883.0	876.0	6	YES
L14208	CB14210	CB14208	64.52	1.86	CIRCULAR	24	24	31	878.4	877.4	22	YES
L14209	CB14216	CB14208	62.32	1.93	CIRCULAR	30	30	57	877.6	877.4	23	NO
L14210	CB14212	CB14210	709.04	0.78	CIRCULAR	21	21	14	885.6	878.4	16	YES
L14216	CB14258	J14216	20	51.3	CIRCULAR	12	12	26	863.4	859.7	4	NO
L14217	CB14232	CB14216	558.68	0.21	CIRCULAR	30	30	19	879.2	877.6	17	NO
L14218	P14220	J14218	79.04	0.14	CIRCULAR	48	48	46	860.1	859.7	63	YES
L14219	CB14102	P14218	368	0.27	CIRCULAR	12	12	2	866.0	861.4	3	NO
L14224	J14226	J14224	75.71	0.15	CIRCULAR	36	36	22	861.0	860.2	49	YES
L14232	CB14234	CB14232	182.64	0.33	CIRCULAR	21	21	9	879.8	879.2	9	YES
L14233	CB14238	CB14232	442.17	0.97	CIRCULAR	21	21	16	882.3	879.2	7	NO
L14234	CB14236	CB14234	44.1	0.45	CIRCULAR	15	15	4	880.3	879.8	6	YES
L14236	CB14248	CB14236	117.98	0.42	CIRCULAR	12	12	2	882.1	880.3	4	YES
L14237	P14246	CB14236	147.51	4.07	CIRCULAR	12	12	7	884.4	880.3	2	NO
L14238	P14240	CB14238	147.06	0.34	CIRCULAR	21	21	9	882.8	882.3	4	NO
L14242	CB14244	CB14242	143.49	2.44	CIRCULAR	12	12	6	878.4	874.2	6	YES
L14254	CB14256	CB14254	78.82	0.38	CIRCULAR	15	15	4	879.9	877.9	8	NO
L14258	P14260	CB14258	20	-10	CIRCULAR	12	12	11	864.1	863.4	4	NO
L14260	CB14262	P14260	334.13	0.38	CIRCULAR	18	18	6	869.1	864.1	8	NO
L14262	CB14264	CB14262	366.88	0.54	CIRCULAR	15	15	5	867.2	869.1	4	NO

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L14263	P14268	CB14262	184	0.42	CIRCULAR	12	12	2	866.4	869.1	3	YES
L14264	CB14266	CB14264	192.35	0.32	CIRCULAR	15	15	4	868.0	867.2	4	NO
L14430	P14432	J14430	83.02	0.13	CIRCULAR	36	36	21	863.7	862.5	45	NO
L14434	P14436	J14434	623.82	0.03	CIRCULAR	15	15	1	871.4	869.9	1	NO
L14438	P14438	P14436	30	3.33	CIRCULAR	15	15	12	872.0	871.4	9	NO
L14440	P14449	J14442	715	0.97	CIRCULAR	18	18	10	872.4	861.6	2	NO
L15234	P15236	J15234	157.83	0.19	CIRCULAR	36	36	29	866.9	866.7	18	YES
L15238	P15240	J15238	108.17	0.65	CIRCULAR	36	36	47	867.8	867.7	20	NO
L15347	P15352	J15352A	113.73	0.69	CIRCULAR	18	18	8	870.0	869.2	11	YES
L15348	P15350	J15348	178.72	0.04	CIRCULAR	36	36	14	869.8	869.3	26	NO
L15402	J15404	P15402	1090	0.37	CIRCULAR	18	18	6	884.6	872.0	2	NO
L16102	P16104	CB16102	28	0.36	CIRCULAR	12	12	2	871.9	871.7	5	YES
L16104	CB16106	P16104	172	0.23	CIRCULAR	18	18	5	874.9	871.9	9	YES
L16106	CB16108	CB16106	358.52	0.66	CIRCULAR	15	15	5	875.7	874.9	6	YES
L16107	CB16110	CB16106	157.42	0.26	CIRCULAR	15	15	3	873.6	874.9	3	YES
L16114	CB16117	P16114	195.62	0.42	CIRCULAR	33	33	34	876.2	874.7	16	NO
L16115	CB16134	P16114	57.69	0.38	CIRCULAR	12	12	2	874.7	874.7	5	YES
L16116	CB16118	CB16116	103.2	0.69	CIRCULAR	24	24	19	880.6	880.4	8	YES
L16117	CB16117	CB16116	175.89	1.18	CIRCULAR	15	15	7	876.2	880.4	10	YES
L16118	CB16120	CB16118	151.27	0.62	CIRCULAR	27	27	24	880.7	880.6	7	YES
L16119	CB16132	CB16118	251.79	0.26	CIRCULAR	15	15	3	881.0	880.6	2	YES
L16120	CB16122	CB16120	123.14	0.25	CIRCULAR	18	18	5	880.9	880.7	5	YES
L16122	CB16124	CB16122	407.52	0.64	CIRCULAR	15	15	5	882.5	880.9	4	YES
L16123	CB16126	CB16122	55.11	0.45	CIRCULAR	12	12	2	881.0	880.9	2	YES
L16127	CB16102	P16128	255	0.78	CIRCULAR	12	12	3	871.7	869.8	2	NO
L16128	CB16130	CB16117	332.14	1.83	CIRCULAR	12	12	5	886.0	876.2	4	NO
L16129	CB16138	P16128	255	0.24	CIRCULAR	12	12	2	873.7	869.8	4	NO
L16134	CB16136	CB16134	118.4	5.07	CIRCULAR	15	15	15	883.5	874.7	5	NO

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L16138	P16114	CB16138	64	0.16	CIRCULAR	12	12	1	874.7	873.7	4	YES
L16254a	P16140	J16254	72	-2.08	CIRCULAR	18	18	15	871.4	870.9	3	NO
L16255	P16140	J16254	72	-0.14	CIRCULAR	18	18	8	871.4	870.9	5	NO
L16402	P16404	P16402	110	0.45	CIRCULAR	15	15	4	872.6	871.5	2	NO
L16404	P16406	P16404	115	-0.87	CIRCULAR	15	15	5	872.7	872.6	2	NO
L19300	CB19302	O-19E-3-01	101.19	0.99	CIRCULAR	12	12	4	854.5	854.5	9	YES
L19302	P19E304	CB19302	50	2	CIRCULAR	21	21	22	854.5	854.5	21	YES
L19304	CB19306	P19E304	619.81	6.7	CIRCULAR	18	18	27	888.3	854.5	16	NO
L19306	CB19308	CB19306	123.51	0.4	CIRCULAR	18	18	7	889.4	888.3	9	NO
L22146	J22148	J22146	111.28	0.45	CIRCULAR	24	24	15	884.6	882.7	17	NO
L22204	CB22206	CB22204	468.08	0.75	CIRCULAR	15	15	6	882.0	877.9	6	NO
L22206	P22208	CB22206	145.84	0.53	CIRCULAR	15	15	5	883.0	882.0	5	YES
L22208	P22110	P22208	484	0.72	CIRCULAR	15	15	5	886.0	883.0	5	NO
L22216	CB22218	P22216	240	0.63	CIRCULAR	15	15	5	876.0	870.3	9	NO
L22218	P22220	CB22218	430	0.12	CIRCULAR	15	15	2	874.7	876.0	5	YES
L22220	J22222	P22220	145	0.32	CIRCULAR	15	15	4	875.0	874.7	5	NO
L22402	P22404	J22404A	108.91	0.33	CIRCULAR	15	15	4	869.8	869.8	4	YES
L22404	P22406	J122406A	124.72	0.26	CIRCULAR	15	15	3	869.8	869.8	3	YES
L22406	J22408A	P22408	96.96	0.55	CIRCULAR	15	15	5	869.8	869.8	4	YES
L22408	P22410	P22402	160	1.25	CIRCULAR	18	18	12	873.6	869.8	14	NO
L23101	P23102	P23158	55	0.55	CIRCULAR	12	12	3	872.6	865.3	10	YES
L23102	CB23104	P23102	104.77	1.34	CIRCULAR	30	30	47	872.8	872.6	37	YES
L23103	CB23106	CB23104	47.85	1.5	CIRCULAR	12	12	4	872.8	872.8	7	YES
L23104	CB23108	CB23104	245.93	1.5	CIRCULAR	27	27	38	874.4	872.8	32	YES
L23108	CB23112	CB23108	314.43	1.5	CIRCULAR	24	24	28	879.4	874.4	27	YES
L23109	CB23136	CB23108	207.37	2.47	CIRCULAR	15	15	10	876.9	874.4	7	NO
L23110	CB24412	CB23110	123.08	0.45	CIRCULAR	15	15	4	868.0	868.0	5	YES
L23112	CB23114	CB23112	115.59	1.5	CIRCULAR	21	21	19	881.4	879.4	20	YES

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L23114	CB23116	CB23114	147.64	1.49	CIRCULAR	18	18	13	883.5	881.4	17	YES
L23116	CB23118	CB23116	225.26	1.5	CIRCULAR	18	18	13	887.2	883.5	13	YES
L23117	CB24420	P23118	94	0.2	CIRCULAR	21	21	7	869.2	867.5	18	NO
L23118	CB23128	CB23118	207.78	1.49	CIRCULAR	15	15	8	888.2	887.2	7	YES
L23119	CB23120	CB23118	47.96	1.5	CIRCULAR	15	15	8	888.4	887.2	9	YES
L23120	CB23122	CB24420	154.67	0.2	CIRCULAR	21	21	7	871.6	869.2	18	YES
L23122	CB23124	CB23122	250.45	0.2	CIRCULAR	18	18	5	871.9	871.6	8	YES
L23129	CB23130	P23158	140	1.25	CIRCULAR	18	18	12	869.8	865.3	9	NO
L23130	CB23132	CB23130	48.84	0.31	CIRCULAR	18	18	6	870.2	869.8	8	NO
L23132	CB23134	CB23132	203.67	0.54	CIRCULAR	15	15	5	870.8	870.2	4	NO
L23138	CB23140	CB23138	171.5	0.99	CIRCULAR	15	15	6	872.5	868.5	7	YES
L23142	CB23144	CB23142	75.51	1.8	CIRCULAR	12	12	5	870.4	866.4	7	NO
L23144	CB23146	CB23144	345.73	1.82	CIRCULAR	15	15	9	873.9	870.4	5	NO
L23159	P23160	P23158	90	-1.11	CIRCULAR	15	15	6	865.3	865.3	3	YES
L23160	CB23162	P23160	130.62	0.38	CIRCULAR	18	18	7	867.1	865.3	13	NO
L23161	CB23168	CB23162	57.62	3.47	CIRCULAR	12	12	7	868.2	867.1	5	YES
L23162	CB23164	CB23162	103.54	0.97	CIRCULAR	15	15	6	869.3	867.1	9	YES
L23164	CB23166	CB23164	174.29	0.57	CIRCULAR	15	15	5	870.1	869.3	6	YES
L23169	CB23170	P23158	77	0.3	CIRCULAR	24	24	12	867.9	865.3	14	NO
L23170	CB23172	CB23170	113.96	0.3	CIRCULAR	24	24	12	868.5	867.9	14	NO
L23172	CB23174	CB23172	121.13	0.3	CIRCULAR	24	24	12	868.8	868.5	10	NO
L23173	CB23184	CB23172	96.08	0.3	CIRCULAR	12	12	2	869.4	868.5	3	YES
L23174	CB23176	CB23174	53.2	0.3	CIRCULAR	21	21	9	868.8	868.8	5	YES
L23176	CB23178	CB23176	80.98	0.3	CIRCULAR	21	21	9	868.9	868.8	4	NO
L23178	CB23180	CB23178	132.97	0.3	CIRCULAR	15	15	4	869.5	868.9	4	YES
L23180	CB23182	CB23180	64.98	0.31	CIRCULAR	12	12	2	869.9	869.5	3	YES
L23185	P23186	P23158	10	0.8	CIRCULAR	15	15	6	865.3	865.3	5	NO
L23186	CB23188	P23186	181	3.87	CIRCULAR	18	18	21	871.8	865.3	11	NO

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L23302	CB22204	P23302	165	4.3	CIRCULAR	15	15	13	877.9	865.9	10	NO
L23312	CB23314	P23312	130	0.22	CIRCULAR	18	18	5	865.9	865.9	5	NO
L23314	CB23314	P23302	60	1.58	CIRCULAR	15	15	8	865.9	865.9	7	YES
L23402	CB23404	CB23402	215.66	2.56	CIRCULAR	15	15	10	876.2	868.8	4	NO
L23403	CB23402	P23444	52	0.79	CIRCULAR	15	15	6	868.8	867.1	10	NO
L23404	CB23406	CB23404	63.3	1.42	CIRCULAR	15	15	8	877.0	876.2	2	NO
L23407	CB23408	P23444	197	0.15	CIRCULAR	18	18	4	868.8	867.1	8	NO
L23408	P23416	CB23408	48.31	-0.06	CIRCULAR	18	18	3	869.3	868.8	11	YES
L23410	CB23412	CB23410	111.09	1.04	CIRCULAR	18	18	11	874.3	872.9	6	NO
L23412	CB23414	CB23412	83.34	1.32	CIRCULAR	15	15	7	875.0	874.3	3	NO
L23416	CB23410	P23416	55.82	7.67	CIRCULAR	18	18	29	872.9	869.3	7	NO
L23417	CB23418	P23416	107	3.52	CIRCULAR	18	18	20	872.4	869.3	7	NO
L23418	CB23420	CB23418	213.98	0.34	CIRCULAR	15	15	4	873.7	872.4	4	NO
L23444	P23446	P23444	110	1.82	CIRCULAR	18	18	14	872.1	867.1	11	NO
L24111	J24113	CB24112	70	0.2	CIRCULAR	21	21	7	864.6	864.6	11	YES
L24112	P24114	J24113	80.47	-1.34	CIRCULAR	21	21	18	864.6	864.6	11	YES
L24113	CB24115	P24114	135	0.37	CIRCULAR	12	12	2	881.6	864.6	9	YES
L24114	CB24116	P24114	247	0.12	CIRCULAR	18	18	4	872.3	864.6	5	YES
L24116	P24118	CB24116	778	0.29	CIRCULAR	15	15	3	865.4	872.3	3	NO
L24118	CB24120	P24118	192	1.29	CIRCULAR	24	24	26	868.6	865.4	23	NO
L24119	CB24164	P24118	230	3.19	CIRCULAR	36	36	119	866.3	865.4	25	NO
L24120	CB24122	CB24120	220.75	2.42	CIRCULAR	21	21	25	873.3	868.6	12	NO
L24121	CB24128	CB24120	170	0.71	CIRCULAR	21	21	13	869.7	868.6	8	NO
L24122	CB24124	CB24122	145.6	0.37	CIRCULAR	21	21	10	874.1	873.3	8	NO
L24124	P24126	CB24124	223.44	2.27	CIRCULAR	21	21	24	878.6	874.1	5	NO
L24128	CB24130	CB24128	178	0.38	CIRCULAR	21	21	10	869.9	869.7	4	NO
L24130	CB24252	CB24130	331.49	2.91	CIRCULAR	15	15	11	879.6	869.9	4	NO
L24135	CB24136	CB24116	311	0.12	CIRCULAR	15	15	2	864.3	872.3	3	YES

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L24136	CB24138	CB24136	541	0.07	CIRCULAR	15	15	2	863.8	864.3	3	YES
L24137	CB24152	CB24136	220	2.32	CIRCULAR	15	15	10	873.0	864.3	3	NO
L24138	P24440	CB24138	50	-3.68	CIRCULAR	15	15	12	863.8	863.8	3	YES
L24140	CB24142	P24440	392.47	1.03	CIRCULAR	21	21	16	865.7	863.8	15	YES
L24142	CB24144	CB24142	203.48	0.49	CIRCULAR	18	18	7	867.8	865.7	11	YES
L24143	CB24150	CB24142	47.34	4.33	CIRCULAR	12	12	7	865.2	865.7	4	YES
L24144	CB24146	CB24144	102.3	0.27	CIRCULAR	18	18	6	867.7	867.8	5	YES
L24146	P24148	CB24146	482.84	0.37	CIRCULAR	15	15	4	868.2	867.7	4	YES
L24148	CB24154	P24148	189.27	0.77	CIRCULAR	30	30	36	868.3	868.2	15	YES
L24149	P24118	P24148	150	0.33	CIRCULAR	18	18	6	865.4	868.2	8	NO
L24150	P24222	CB24250	127	1.09	CIRCULAR	15	15	7	885.0	885.4	5	YES
L24152	CB24250	CB24252	917	0.28	CIRCULAR	15	15	3	885.4	879.6	4	NO
L24154	CB24156	CB24154	132.36	1.46	CIRCULAR	27	27	37	868.4	868.3	14	NO
L24156	CB24158	CB24156	220.97	1.05	CIRCULAR	21	21	16	870.8	868.4	10	NO
L24158	CB24160	CB24158	177.61	2.63	CIRCULAR	18	18	17	874.9	870.8	5	NO
L24159	CB24162	CB24158	223.7	0.59	CIRCULAR	15	15	5	871.8	870.8	3	NO
L24164	CB24172	CB24164	117.66	4.31	CIRCULAR	18	18	22	870.9	866.3	6	NO
L24165	CB24166	CB24164	384.44	0.18	CIRCULAR	33	33	23	867.6	866.3	14	NO
L24166	CB24168	CB24166	362.68	4.4	CIRCULAR	30	30	86	882.5	867.6	7	NO
L24167	CB24170	CB24166	46.52	12.75	CIRCULAR	18	18	38	879.9	867.6	6	NO
L24172	CB24174	CB24172	169.36	0.89	CIRCULAR	15	15	6	872.6	870.9	3	NO
L24175	CB24176	P24118	175	0.57	CIRCULAR	27	27	23	865.8	865.4	25	NO
L24176	CB24178	CB24176	35.75	0.28	CIRCULAR	24	24	12	866.3	865.8	22	YES
L24178	CB24180	CB24178	227.07	0.22	CIRCULAR	18	18	5	870.1	866.3	14	YES
L24180	CB24182	CB24180	108.04	8.33	CIRCULAR	15	15	19	876.0	870.1	14	YES
L24182	CB24184	CB24182	322.72	2.17	CIRCULAR	15	15	10	880.5	876.0	3	NO
L24183	CB24186	CB24182	189.5	0.26	CIRCULAR	12	12	2	877.2	876.0	5	YES
L24185	CB24188	P24118	400	1.36	CIRCULAR	15	15	8	871.8	865.4	8	NO

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L24186	CB24190	CB24188	154.69	3.38	CIRCULAR	12	12	7	879.3	871.8	8	YES
L24189	CB24194	P24118	231.55	1.51	CIRCULAR	15	15	8	868.7	865.4	5	NO
L24221	CB24238	P24222	150	3	CIRCULAR	18	18	18	887.2	885.0	18	YES
L24222	CB24224	P24222	140	0.26	CIRCULAR	15	15	3	885.1	885.0	7	YES
L24224	CB24226	CB24224	564.98	0.2	CIRCULAR	15	15	3	889.2	885.1	6	YES
L24226	CB24228	CB24226	63.11	0.13	CIRCULAR	15	15	2	889.1	889.2	3	YES
L24228	P24230	CB24228	198.62	0.35	CIRCULAR	12	12	2	886.8	889.1	4	YES
L24230	CB24232	P24230	40	0.25	CIRCULAR	15	15	3	886.5	886.8	5	YES
L24231	CB24234	CB24232	162.95	0.09	CIRCULAR	15	15	2	886.5	886.5	4	NO
L24232	CB24236	CB24232	994.12	0.1	CIRCULAR	15	15	2	889.3	886.5	4	YES
L24234	CB24234	O-24-2-01	143.71	21.57	CIRCULAR	12	12	17	886.5	854.5	15	YES
L24238	CB24240	CB24238	223.33	0.22	CIRCULAR	15	15	3	891.5	887.2	10	YES
L24241	CB24242	P24222	132	0.38	CIRCULAR	15	15	4	886.8	885.0	8	YES
L24242	P24244	CB24242	232.02	0.86	CIRCULAR	15	15	6	887.6	886.8	5	YES
L24245	CB24246	P24222	313	0.26	CIRCULAR	18	18	5	889.2	885.0	8	NO
L24246	CB24248	CB24246	123.85	0.16	CIRCULAR	18	18	4	891.0	889.2	7	YES
L24402	CB24104	P24402	240	0.17	CIRCULAR	15	15	3	864.0	863.1	5	YES
L24403	CB23150	P24402	110	1.82	CIRCULAR	18	18	14	870.1	863.1	12	NO
L24404	P24406	CB24104	90	0.44	CIRCULAR	15	15	4	864.5	864.0	5	YES
L24405	CB23138	P24406	98	0.82	CIRCULAR	15	15	6	868.5	864.5	7	NO
L24406	CB24408	P24406	22	2	CIRCULAR	15	15	9	865.9	864.5	16	YES
L24407	CB23142	P24406	86	1.8	CIRCULAR	24	24	30	866.4	864.5	10	NO
L24408	CB24428	CB24408	147.52	2.7	CIRCULAR	21	21	26	867.7	865.9	15	NO
L24409	CB23110	CB24408	298.32	0.69	CIRCULAR	15	15	5	868.0	865.9	6	YES
L24412	P23118	CB24412	51	1.86	CIRCULAR	15	15	9	867.5	868.0	8	YES
L24413	CB24414	CB24412	230.88	1.98	CIRCULAR	15	15	9	872.3	868.0	8	YES
L24414	CB24416	CB24414	167.29	0.54	CIRCULAR	12	12	3	873.6	872.3	3	YES
L24425	P24426	CB24408	186	0.04	CIRCULAR	15	15	1	864.0	865.9	4	NO

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L24428	CB24430	CB24428	219.66	1.63	CIRCULAR	18	18	13	870.9	867.7	8	NO
L24430	CB24432	CB24430	271.51	0.61	CIRCULAR	18	18	8	872.9	870.9	8	NO
L24432	CB24434	CB24432	173.89	0.88	CIRCULAR	15	15	6	875.0	872.9	7	YES
L24434	CB24436	CB24434	163.1	0.44	CIRCULAR	15	15	4	875.8	875.0	3	YES
L24440	CB24442	P24440	40	6.88	CIRCULAR	24	24	59	863.8	863.8	34	YES
L24442	J24444	CB24442	265.78	0.13	CIRCULAR	18	18	4	865.9	863.8	13	YES
L24444	J24446	J24444	798.9	0.13	CIRCULAR	18	18	4	866.5	865.9	3	YES
L24446	J24448	J24446	400.9	0.12	CIRCULAR	18	18	4	864.6	866.5	7	YES
L24448	P24450	J24448	70	0.17	CIRCULAR	18	18	4	863.0	864.6	12	NO
L24449	P24452	P24450	110	0.91	CIRCULAR	18	18	10	871.5	863.0	10	NO
L24451	P24402	P24450	146	-0.34	CIRCULAR	15	15	4	863.1	863.0	2	YES
L24453	P23158	P24402	205	0.3	CIRCULAR	18	18	6	865.3	863.1	1	NO
L25250	CB23152	CB23150	38.26	7.84	CIRCULAR	18	18	25	872.7	870.1	10	NO
Link-12	P14270	P14220	300	0.45	CIRCULAR	15	15	4	878.8	860.1	3	NO
ZC15352	J22454	J22454A	93.96	0.28	CIRCULAR	15	15	3	870.0	872.0	5	YES
ZC24414A	CB24416	CB24414	140.12	0.65	CIRCULAR	15	15	5	873.6	872.3	5	YES

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C27270	P27276	P27270	90	2	CIRCULAR	18	18	13	873.8	862.6	0	No
L22302	P22304	P22302	85	1.76	CIRCULAR	15	15	5	866.7	866.4	3	No
L27116	P22302	P27116	75	0.4	CIRCULAR	12	12	1	866.4	866.4	2	Yes
L27118	P27402	P27118	150	0.13	CIRCULAR	24	24	7	861.8	862.5	0	No
L27119	P27102	P27118	150	0.33	CIRCULAR	18	18	6	862.5	862.5	0	No
L27168	CB27170	CB27168	205	0.15	CIRCULAR	15	15	2	867.7	867.4	0	No
L27202	CB27204	P27202	246.08	0.57	CIRCULAR	27	27	23	866.3	865.5	25	Yes
L27203	CB27216	P27202	253	0.09	CIRCULAR	36	36	20	866.1	865.5	43	Yes
L27204	CB27206	CB27204	249.76	0.2	CIRCULAR	27	27	14	869.3	866.3	25	Yes
L27206	CB27208	CB27206	358.38	0.2	CIRCULAR	27	27	14	869.8	869.3	25	Yes
L27207	CB27214	CB27208	355.78	0.2	CIRCULAR	24	24	10	870.6	869.8	12	Yes
L27208	CB27210	CB27208	274.29	0.3	CIRCULAR	24	24	12	870.4	869.8	15	Yes
L27210	CB27212	CB27210	249.7	0.3	CIRCULAR	15	15	4	870.1	870.4	6	Yes
L27216	CB27218	CB27216	411.98	1.28	CIRCULAR	21	21	18	867.1	866.1	12	Yes
L27217	CB27220	CB27216	432.3	0.13	CIRCULAR	30	30	15	866.3	866.1	21	Yes
L27220	CB27222	CB27220	56.19	1.25	CIRCULAR	18	18	12	867.6	866.3	16	Yes
L27221	CB27322	CB27220	90.48	0.13	CIRCULAR	18	18	4	866.3	866.3	9	Yes
L27222	CB27224	CB27222	239.52	2.3	CIRCULAR	15	15	10	869.6	867.6	6	Yes
L27226	CB27228	CB27226	242.8	0.1	CIRCULAR	36	36	21	863.2	862.6	47	Yes
L27228	CB27230	CB27228	92.2	0.1	CIRCULAR	36	36	21	863.7	863.2	39	Yes
L27229	P27234	CB27228	30	0.27	CIRCULAR	15	15	3	863.7	863.2	9	Yes
L27230	CB27232	CB27230	203	0.06	CIRCULAR	36	36	17	864.6	863.7	39	Yes
L27232	P27202	CB27233	24	-1.46	CIRCULAR	36	36	81	865.5	865.1	41	Yes
L27234	CB27236	P27234	60	0.42	CIRCULAR	36	36	43	863.9	863.7	38	Yes
L27236	CB27238	CB27236	261.17	0.51	CIRCULAR	36	36	47	864.5	863.9	30	Yes
L27238	CB27240	CB27241	53.52	0.3	CIRCULAR	30	30	22	865.7	865.1	29	Yes
L27238A	CB27241	CB27238	276.59	0.54	CIRCULAR	33	33	39	865.1	864.5	24	Yes
L27240	CB27242	CB27240	261.17	0.2	CIRCULAR	30	30	18	865.7	865.7	5	Yes

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L27242	CB27244	CB27242	184.51	0.26	CIRCULAR	24	24	12	865.8	865.7	4	Yes
L27243	CB27246	CB27244	68.2	0.22	CIRCULAR	18	18	5	865.9	865.8	4	Yes
L27244	CB27274	CB27244	38	0.71	CIRCULAR	21	21	13	864.9	865.8	18	Yes
L27248	CB27250	CB27248	107	0.21	CIRCULAR	15	15	3	858.2	858.0	0	No
L27250	CB27252	CB27250	247	0.18	CIRCULAR	15	15	3	858.7	858.2	0	No
L27252	CB27254	CB27252	291	0.15	CIRCULAR	15	15	3	859.1	858.7	0	No
L27254	CB27256	CB27254	250	1.84	CIRCULAR	15	15	9	863.7	859.1	0	No
L27256	CB27258	CB27256	400.78	0.21	CIRCULAR	15	15	3	864.5	863.7	0	No
L27258	CB27260	CB27258	394	0.12	CIRCULAR	15	15	2	865.0	864.5	0	No
L27260	CB27262	CB27260	387	0.1	CIRCULAR	15	15	2	865.4	865.0	0	No
L27262	CB27264	CB27262	400	0.21	CIRCULAR	15	15	3	866.3	865.4	0	No
L27264	CB27266	CB27264	403	0.12	CIRCULAR	15	15	2	866.8	866.3	0	No
L27266	CB27168	CB27266	403	0.15	CIRCULAR	15	15	2	867.4	866.8	0	No
L27272	CB27226	MH27235	136	0.16	CIRCULAR	42	42	40	862.6	862.6	47	Yes
L27274	P34174	CB27274	14	0.71	CIRCULAR	15	15	5	863.4	864.9	17	Yes
L27276	MH27235	P27270	40	0.55	CIRCULAR	42	42	75	862.6	862.6	47	Yes
L27301	P27316	P27302	120	0.67	CIRCULAR	24	24	18	865.5	866.0	5	No
L27302	CB27304	P27302	202.82	0.2	CIRCULAR	24	24	10	866.5	866.0	17	Yes
L27303	CB27310	P27302	156.58	0.32	CIRCULAR	18	18	6	866.2	866.0	17	Yes
L27304	CB27306	CB27304	412.06	0.1	CIRCULAR	24	24	7	866.5	866.5	13	Yes
L27306	CB27308	CB27306	333.84	0.1	CIRCULAR	24	24	7	866.6	866.5	11	Yes
L27310	CB27312	CB27310	502.07	0.22	CIRCULAR	18	18	5	866.6	866.2	7	Yes
L27312	CB27314	CB27312	131.05	0.31	CIRCULAR	15	15	4	866.6	866.6	2	Yes
L27322	CB27324	CB27322	273.79	0.13	CIRCULAR	18	18	4	866.7	866.3	7	Yes
L27324	CB27326	CB27324	220.51	0.13	CIRCULAR	18	18	4	865.5	866.7	10	Yes
L27326	CB27328	CB27326	268.85	0.54	CIRCULAR	18	18	8	865.4	865.5	10	Yes
L27328	P27330	CB27328	20	0	CIRCULAR	18	18	1	865.4	865.4	10	Yes
L27330	CB27332	P27330	128	0.31	CIRCULAR	30	30	23	865.4	865.4	24	Yes

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L27332	CB27334	CB27332	353.86	0.23	CIRCULAR	27	27	15	865.4	865.4	18	Yes
L27334	CB27336	CB27334	397.22	0.2	CIRCULAR	18	18	5	865.6	865.4	8	Yes
L27338	CB27340	P27338	136	0.2	CIRCULAR	21	21	7	862.5	862.3	9	Yes
L27340	CB27342	CB27340	396.9	0.2	CIRCULAR	21	21	7	863.1	862.5	9	Yes
L27342	CB27344	CB27342	388.64	0.17	CIRCULAR	21	21	7	863.8	863.1	9	Yes
L27344	P27302	CB27344	143.35	0	CIRCULAR	15	15	0	866.0	863.8	9	Yes
L27346	CB27348	P27346	70	0.71	CIRCULAR	30	30	35	864.4	863.9	31	No
L27347	CB27352	P27346	108	0.37	CIRCULAR	21	21	10	864.0	863.9	14	Yes
L27348	CB27350	CB27348	660.47	0.08	CIRCULAR	24	24	6	866.6	864.4	13	Yes
L27352	CB27354	CB27352	233.15	0.09	CIRCULAR	21	21	5	864.6	864.0	8	Yes
L27401	P27446	CB27447	81.71	-1.6	CIRCULAR	12	12	5	869.1	867.3	5	Yes
L27402	CB27447	P27102	96	0.72	CIRCULAR	12	12	3	867.3	862.5	5	No
L27404	P27346	P27402	100	0.5	CIRCULAR	18	18	7	863.9	861.8	10	No
L27407	CB27444	P27408	204	1.96	CIRCULAR	15	15	9	872.7	865.4	5	No
L27408	CB27410	P27408	174	0.34	CIRCULAR	21	21	9	868.1	865.4	10	No
L27409	CB27438	P27408	856.87	0.18	CIRCULAR	24	24	9	872.0	865.4	13	No
L27410	CB27412	CB27410	55.74	0.36	CIRCULAR	18	18	6	868.8	868.1	9	Yes
L27412	CB27414	CB27412	257.7	0.35	CIRCULAR	18	18	6	870.2	868.8	8	Yes
L27414	P27416	CB27414	55	0.55	CIRCULAR	15	15	5	871.0	870.2	7	Yes
L27415	CB27436	CB27414	184.49	0.6	CIRCULAR	18	18	8	870.2	870.2	3	No
L27416	CB27418	P27416	164	0.37	CIRCULAR	21	21	10	873.8	871.0	16	No
L27417	CB27426	P27416	148	0.54	CIRCULAR	21	21	12	871.1	871.0	13	Yes
L27418	CB27420	CB27418	209.66	0.29	CIRCULAR	21	21	8	874.7	873.8	11	Yes
L27420	CB27422	CB27420	94.92	0.32	CIRCULAR	18	18	6	875.7	874.7	9	Yes
L27422	CB27424	CB27422	167.88	0.3	CIRCULAR	15	15	4	878.0	875.7	7	Yes
L27426	CB27428	CB27426	35.71	0.56	CIRCULAR	18	18	8	871.3	871.1	11	Yes
L27428	CB27430	CB27428	63.59	0.79	CIRCULAR	15	15	6	872.9	871.3	9	Yes
L27430	CB27432	CB27430	407.35	1.35	CIRCULAR	12	12	4	880.0	872.9	4	Yes

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
L27432	P27434	CB27432	158.66	0.63	CIRCULAR	12	12	3	878.0	880.0	4	Yes
L27438	CB27440	CB27438	247.67	0.81	CIRCULAR	18	18	9	874.0	872.0	12	Yes
L27440	CB27442	CB27440	220.83	0.91	CIRCULAR	15	15	6	876.1	874.0	8	Yes
L27446	CB27448	P27446	48	2.06	CIRCULAR	15	15	9	869.2	869.1	6	Yes
L27447	CB27454	P27446	160	1.08	CIRCULAR	12	12	4	869.5	869.1	2	Yes
L27448	CB27450	CB27448	144	1.14	CIRCULAR	15	15	7	870.1	869.2	7	Yes
L27450	CB27452	CB27450	124	1.05	CIRCULAR	15	15	7	870.8	870.1	4	No
L34104	P34106	CB34104	254.91	1.45	CIRCULAR	24	24	27	859.0	854.0	22	No
L34118	CB34120	CB35318	152.36	0.47	CIRCULAR	42	42	69	852.7	851.7	61	No
L34120	CB34122	CB34120	105.12	0.47	CIRCULAR	42	42	69	853.5	852.7	61	No
L34121	CB34152	CB34130	710	0.2	CIRCULAR	30	30	18	860.7	856.9	29	Yes
L34122	CB34124	CB34122	145.85	0.71	CIRCULAR	42	42	85	854.3	853.5	61	No
L34124	CB34126	CB34124	31	0.13	CIRCULAR	42	42	36	854.8	854.3	61	No
L34128	CB34130	CB34128	194	0.14	CIRCULAR	42	42	38	856.9	856.5	39	Yes
L34130	CB34132	CB34130	80	0.18	CIRCULAR	42	42	42	856.9	856.9	9	Yes
L34132	CB34134	CB34132	44	0.73	CIRCULAR	21	21	14	857.1	856.9	9	Yes
L34134	CB34136	CB34134	233	0.15	CIRCULAR	21	21	6	858.0	857.1	9	Yes
L34136	CB34138	CB34136	304	0.16	CIRCULAR	21	21	6	858.0	858.0	2	Yes
L34137	P34137	CB34136	41.71	-1.03	CIRCULAR	15	15	7	859.1	858.0	10	Yes
L34138	CB34140	CB34138	321.89	0.14	CIRCULAR	21	21	6	858.0	858.0	2	Yes
L34139	P34170	CB34182	200	0.08	CIRCULAR	15	15	2	862.2	861.3	6	Yes
L34140	CB34142	CB34140	324	0.21	CIRCULAR	21	21	7	858.0	858.0	2	Yes
L34142	CB34144	CB34142	404	0.13	CIRCULAR	18	18	4	858.0	858.0	1	No
L34144	CB34146	CB34144	396	0.17	CIRCULAR	18	18	4	858.0	858.0	1	No
L34146	CB27248	CB34146	386	0.19	CIRCULAR	18	18	5	858.0	858.0	0	No
L34149	P34148	CB34128	522	0.38	CIRCULAR	24	24	14	857.9	856.5	11	Yes
L34150	CB34154	P34150	141	0.23	CIRCULAR	36	36	32	861.3	861.2	39	Yes
L34152	P34150	CB34152	46	0.2	CIRCULAR	30	30	18	861.2	860.7	29	Yes

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L34154	CB34156	CB34154	270	0.05	CIRCULAR	36	36	15	861.8	861.3	40	Yes
L34156	CB34158	CB34156A	20.21	-0.54	CIRCULAR	36	36	49	862.2	862.0	41	Yes
L34156B	CB34156A	CB34156	18	0.61	CIRCULAR	36	36	52	862.0	861.8	41	Yes
L34158	CB34160	CB34158	344	0.09	CIRCULAR	36	36	20	863.1	862.2	37	Yes
L34160	CB34162	CB34160	311	0.13	CIRCULAR	36	36	24	863.8	863.1	35	Yes
L34174	CB34176	CB34178	300	0.1	Arch	15.48	26.04	3	862.0	861.4	9	Yes
L34178	CB34178	CB34180	350	0.1	Arch	15.48	26.04	3	861.4	864.3	10	Yes
L34180	CB34180	CB34162	352	0.1	CIRCULAR	36	36	18	864.3	863.8	25	Yes
L34182	CB34182	P34150	80	0.54	CIRCULAR	15	15	5	861.3	861.2	6	Yes
L34405	P34402	MH34404	44	-2.66	Arch	15.48	26.04	18	860.7	860.5	9	Yes
L34406	CB34406	P34402	47	0.06	CIRCULAR	24	24	6	860.7	860.7	8	Yes
L34412	CB34408	CB34406	188	0.16	CIRCULAR	24	24	9	860.8	860.7	8	Yes
L34416	CB34410	CB34408	247	0.09	CIRCULAR	24	24	7	861.0	860.8	8	Yes
L35126	CB34128	CB34126	417	0.14	CIRCULAR	42	42	37	856.5	854.8	61	Yes
L35300	CB35302	O35301	209.03	1.91	CIRCULAR	27	27	43	851.8	842.1	64	Yes
L35302	CB35304	CB35302	385.37	1.04	CIRCULAR	27	27	32	857.6	851.8	43	Yes
L35304	CB35306	CB35304	426.8	0.94	CIRCULAR	24	24	22	857.6	857.6	27	Yes
L35310	CB35312	O34204	269.57	0.48	CIRCULAR	48	48	99	849.7	847.9	92	No
L35312	CB35314	CB35312	73.86	0.47	CIRCULAR	48	48	99	850.5	849.7	92	No
L35314	CB35316	CB35314	86.54	0.46	CIRCULAR	48	48	98	851.0	850.5	75	No
L35316	CB35318	CB35316	431.98	0.47	CIRCULAR	48	48	98	851.7	851.0	66	No
L35317	P35402	CB35316	126.17	1.16	CIRCULAR	18	18	11	852.5	851.0	11	Yes
L35400	J34101	O34203	32	1.84	CIRCULAR	21	21	22	843.9	842.5	45	Yes
L35401	CB34102	J34101	470	1.1	CIRCULAR	21	21	21	855.0	843.9	23	Yes
L35402	CB35403	CB35404	430	0.1	CIRCULAR	36	36	21	857.1	857.6	24	Yes
L35403	MH34404	CB34176	150	0.12	Arch	15.48	26.04	4	860.5	862.0	9	Yes
L35404	CB35404	CB35406	225	0.1	CIRCULAR	36	36	23	857.6	858.1	24	Yes
L35406	CB35406	CB35407	110	0.14	CIRCULAR	36	36	25	858.1	858.2	24	Yes

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L35407	P35407	CB35407	40	-1.32	CIRCULAR	36	36	77	858.2	858.2	69	Yes
L35408	CB35408	CB35410	205	0.13	CIRCULAR	42	42	36	859.3	859.7	42	Yes
L35410	CB35410	P35420	296.71	0.27	CIRCULAR	42	42	52	859.7	860.2	39	Yes
L35411	CB35412	CB35410	109.33	0.91	CIRCULAR	42	42	96	859.7	859.7	11	Yes
L35414	CB35416	CB35414	355.99	0.27	CIRCULAR	48	48	75	860.8	860.3	53	Yes
L35416	CB35418	CB35416	349.36	0.27	CIRCULAR	48	48	75	861.6	860.8	38	Yes
L35419	CB35440	P35420	735.61	0.48	CIRCULAR	30	30	28	862.0	860.2	30	Yes
L35420	P35420	P35424	133	0.38	CIRCULAR	42	42	62	860.2	861.3	59	No
L35421	CB35414	P35420	148.95	0.34	CIRCULAR	48	48	83	860.3	860.2	53	Yes
L35422	SB35409	SB35411	220	0.27	CIRCULAR	36	36	38	858.5	859.2	44	Yes
L35423	CB35407	SB35409	202	0.21	CIRCULAR	36	36	31	858.2	858.5	47	Yes
L35424	CB35426	P35424	180	0.28	CIRCULAR	54	54	104	861.6	861.3	59	Yes
L35425	CB35403	CB35402	295	-0.1	CIRCULAR	36	36	21	857.1	856.9	24	Yes
L35426	CB35428	CB35427	374.3	0.11	CIRCULAR	48	48	49	862.6	862.4	41	Yes
L35427	CB34129	CB34128	41	0.39	CIRCULAR	36	36	42	856.6	856.5	25	Yes
L35428	CB35402	CB34129	502	-0.1	CIRCULAR	36	36	21	856.9	856.6	25	Yes
L35429	CB35434	CB35428	209.63	0.24	CIRCULAR	24	24	11	862.6	862.6	10	Yes
L35430	CB35430	CB35428	459	0.15	CIRCULAR	42	42	39	863.0	862.6	39	Yes
L35431	CB35432	CB35430	121.33	0.15	CIRCULAR	36	36	26	863.3	863.0	35	Yes
L35432	P35474	CB35432	331.18	3	CIRCULAR	15	15	11	867.1	863.3	2	No
L35434	CB35436	CB35434	50.99	0.59	CIRCULAR	12	12	3	862.3	862.6	4	Yes
L35436	P35438	CB35436	87.43	0.57	CIRCULAR	12	12	3	861.9	862.3	4	Yes
L35440	CB35442	CB35440	203.01	0.75	CIRCULAR	30	30	35	862.0	862.0	23	Yes
L35442	CB35444	CB35442	255.69	0.77	CIRCULAR	30	30	36	862.6	862.0	27	Yes
L35445	CB35454	P35446	497.39	0.6	CIRCULAR	30	30	32	866.7	866.7	18	Yes
L35446	CB35466	CB354466A	363	1	CIRCULAR	27	27	31	872.1	867.7	33	No
L35446A	CB354466A	CB35466B	180	4.28	CIRCULAR	27	27	64	867.7	866.7	33	No
L35446B	CB35466B	P35446	26	1.46	CIRCULAR	27	27	37	866.7	866.7	27	Yes

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L34106	CB34108	CB34106	444.35	0.56	CIRCULAR	18	18	8	857.7	855.2	12	Yes
L34200	CB34202	O34300	181.87	7.15	CIRCULAR	27	27	83	849.7	843.0	15	No
L34201	CB34204	O34301	340.29	3.23	CIRCULAR	27	27	56	852.3	843.3	49	Yes
L34204	CB34106	CB34204	562.32	0.53	CIRCULAR	27	27	23	855.2	852.3	33	Yes
L34300	CB34302	O34400	43	0.67	CIRCULAR	24	24	19	847.7	843.6	59	Yes
L34302	P34304	CB34302	90	1.14	CIRCULAR	24	24	24	847.0	847.7	28	Yes
L34304	CB34306	P34304	150	0.5	CIRCULAR	27	27	22	848.1	847.0	33	Yes
L34305	CB34342	P34304	165	0.3	CIRCULAR	18	18	6	848.4	847.0	13	Yes
L34306	CB34308	CB34306	251	0.39	CIRCULAR	27	27	19	851.4	848.1	33	Yes
L34308	CB34310	CB34308	225	0.45	CIRCULAR	27	27	21	853.3	851.4	21	Yes
L34310	CB34412	CB34310	147	0.48	CIRCULAR	27	27	21	852.1	853.3	19	Yes
L34311	P34311	CB34310	65	1.08	CIRCULAR	15	15	7	852.0	853.3	6	Yes
L34328	CB34442	CB34440	279	0.42	CIRCULAR	27	27	20	854.9	854.4	14	No
L34340	CB34344	CB34342	320	0.37	CIRCULAR	18	18	6	854.0	848.4	13	Yes
L34342	CB34346	CB34344	270	0.26	CIRCULAR	18	18	5	854.8	854.0	7	Yes
L34344	CB34448	CB34346	472	0.2	CIRCULAR	18	18	5	854.8	854.8	6	Yes
L344100	CB34485	CB34487	28.54	0.7	CIRCULAR	30	30	34	854.3	854.3	2	Yes
L344101	CB34487	CB34489	33.67	0	CIRCULAR	30	30	2	854.3	854.3	2	Yes
L344102	CB34488	CB34489	46.54	5.35	CIRCULAR	18	18	24	854.3	854.3	0	No
L344103	CB34486	CB34485	71.93	1.11	CIRCULAR	18	18	11	854.3	854.3	0	Yes
L344104	CB34489	CB34497	241.59	0.41	CIRCULAR	30	30	26	854.3	854.3	2	Yes
L344105	CB34474	CB34476	97.57	1.47	CIRCULAR	30	30	50	854.3	854.3	0	No
L34412	CB34414	CB34412	217	0.3	CIRCULAR	27	27	17	855.5	852.1	19	Yes
L34414	P34418	CB34414	380	0.42	CIRCULAR	24	24	15	854.3	855.5	19	Yes
L34415	P34316	CB34414	30	12.17	CIRCULAR	15	15	23	852.3	855.5	4	No
L34416	CB34418	P34418	157	0.21	CIRCULAR	42	42	46	854.4	854.3	37	Yes
L34417	CB34430	P34418	51	1	CIRCULAR	18	18	11	854.4	854.3	9	Yes
L34418	CB34420	CB34418	155	0.43	CIRCULAR	36	36	44	854.4	854.4	35	Yes

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L34420	CB34422	CB34420	450	0.34	CIRCULAR	36	36	39	854.4	854.4	28	No
L34422	CB34424	CB34422	219	0.39	CIRCULAR	30	30	26	855.6	854.4	22	No
L34424	CB34426	CB34424	219	0.61	CIRCULAR	24	24	18	856.5	855.6	15	No
L34426	CB34428	CB34426	143	0.44	CIRCULAR	24	24	15	857.3	856.5	15	No
L34430	CB34432	CB34430	65	1.25	CIRCULAR	15	15	7	854.4	854.4	9	Yes
L34432	P34434	CB34432	32	3.28	CIRCULAR	15	15	12	854.4	854.4	4	Yes
L34433	CB34433	CB34432	30	1.97	CIRCULAR	15	15	9	855.5	854.4	11	Yes
L34434	CB34436	P34434	54	0.43	CIRCULAR	36	36	44	854.4	854.4	26	Yes
L34436	CB34438	CB34436	149	0.13	CIRCULAR	36	36	24	854.4	854.4	26	Yes
L34438	CB34440	CB34438	333	0.4	CIRCULAR	30	30	26	854.4	854.4	25	No
L34442	CB34444	CB34442	183	0.59	CIRCULAR	24	24	17	855.8	854.9	14	No
L34444	CB34446	CB34444	282	0.72	CIRCULAR	15	15	5	857.5	855.8	4	No
L34448	CB34450	CB34448	204	0.84	CIRCULAR	18	18	10	852.3	854.8	11	Yes
L34450	CB34454	CB34450	168	0.21	CIRCULAR	18	18	5	853.3	852.3	8	Yes
L34451	P34451	CB34450	32	0.31	CIRCULAR	18	18	6	852.2	852.3	15	Yes
L34452	P34452	CB34450	62	0.48	CIRCULAR	18	18	7	852.3	852.3	7	Yes
L34454	CB34456	CB34454	267	0.25	CIRCULAR	18	18	5	854.7	853.3	8	Yes
L34456	CB34458	CB34456	140	0.36	CIRCULAR	15	15	4	857.1	854.7	7	Yes
L34458	P34460	CB34458	2.61	100	CIRCULAR	27	27	310	855.0	857.1	84	No
L34459	CB34493	CB34494	33.37	0.27	CIRCULAR	18	18	5	854.3	854.3	0	No
L34460	CB34496	CB34497	122.82	1.15	CIRCULAR	18	18	11	854.3	854.3	1	Yes
L34461	CB34494	CB34496	136.81	1.36	CIRCULAR	18	18	12	854.3	854.3	0	No
L34462	CB34495	CB34496	103.55	0.69	CIRCULAR	18	18	9	854.3	854.3	2	Yes
L34463	CB34492	CB34493	81.16	0.36	CIRCULAR	18	18	6	854.3	854.3	0	No
L34464	CB34497	CB34498	38.88	1.8	CIRCULAR	36	36	90	854.3	854.3	3	Yes
L34465	CB34498	P34418	45	0.82	CIRCULAR	36	36	60	854.3	854.3	3	Yes
L34466	CB34491	CB34497	119.39	1.37	CIRCULAR	18	18	12	854.3	854.3	0	Yes
L34467	CB34490	CB34491	109.2	0.62	CIRCULAR	18	18	8	854.3	854.3	0	Yes

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L34468	CB344102	CB344103	36.58	0.36	CIRCULAR	18	18	6	854.3	854.3	0	Yes
L34469	CB344104	CB344105	132.01	-0.05	CIRCULAR	21	21	4	854.3	854.3	0	Yes
L34470	CB344103	CB344104	72.86	2.14	CIRCULAR	21	21	23	854.3	854.3	0	Yes
L34471	CB344105	CB344106	117.23	0.38	CIRCULAR	21	21	10	854.3	854.3	1	Yes
L34472	CB344106	P34418	47	0.21	CIRCULAR	24	24	10	854.3	854.3	1	Yes
L34473	CB344100	P34418	20	1	CIRCULAR	12	12	10	854.3	854.3	0	Yes
L34474	CB34499	P34418	20	1	CIRCULAR	12	12	7	854.3	854.3	0	Yes
L34475	CB34459	CB34460	31.4	7.36	CIRCULAR	12	12	10	858.5	856.2	0	No
L34476	CB34461	CB34462	23.73	12.73	CIRCULAR	12	12	13	858.5	855.5	0	No
L34477	CB34460	CB34462	69.2	0.94	CIRCULAR	18	18	10	856.2	855.5	0	No
L34478	CB34462	CB34463	77.68	0.33	CIRCULAR	18	18	6	855.5	855.3	0	No
L34479	CB34463	CB34465	94.68	0.25	CIRCULAR	18	18	5	855.3	855.0	0	No
L34480	CB34464	CB34465	24.77	4.84	CIRCULAR	12	12	8	856.2	855.0	0	No
L34481	CB34465	CB34474	38.36	5.14	CIRCULAR	18	18	24	855.0	854.3	0	No
L34482	CB34466	CB34467	36	0.44	CIRCULAR	12	12	2	855.9	855.8	0	No
L34483	CB34467	CB34468	42.89	0.49	CIRCULAR	12	12	2	855.8	855.6	0	No
L34484	CB34468	CB34469	89.41	0.83	CIRCULAR	18	18	10	855.6	854.8	0	No
L34485	CB34469	CB34470	179.48	0.53	CIRCULAR	18	18	8	854.8	854.3	0	No
L34486	CB34471	CB34472	32.86	0.79	CIRCULAR	12	12	3	855.9	855.6	0	No
L34487	CB34472	CB34470	61.69	2.8	CIRCULAR	12	12	6	855.6	854.3	0	No
L34488	CB34470	CB34473	60.49	0.31	CIRCULAR	18	18	6	854.3	854.3	0	No
L34489	CB34473	CB34474	59.35	1.1	CIRCULAR	18	18	11	854.3	854.3	0	No
L34490	CB34475	CB34476	42.98	7.38	CIRCULAR	18	18	29	854.8	854.3	0	No
L34491	CB34477	CB34478	35.24	6.07	CIRCULAR	18	18	26	854.3	854.3	0	No
L34492	CB34476	CB34478	147.21	0	CIRCULAR	30	30	1	854.3	854.3	1	Yes
L34493	CB34479	CB34480	139.99	0.34	CIRCULAR	18	18	6	854.5	854.3	0	No
L34494	CB34480	CB34481	118.29	0.74	CIRCULAR	18	18	9	854.3	854.3	0	No
L34495	CB34481	CB34483	99.83	0.56	CIRCULAR	18	18	8	854.3	854.3	0	No

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
L01306	P01308	P01306	50	5	Filled Circula	6	18	4	871.1	867.4	1	No
L03312	P03314	J03312	70	1.43	CIRCULAR	18	18	11	882.7	881.1	4	No
L03419	P03432	P03418	150	0.67	CIRCULAR	18	18	7	888.8	888.3	0	No
L04402	P06404	J06402	98.38	0.51	CIRCULAR	18	18	6	888.4	887.3	9	No
L05336	P05338	J05136	20	5	CIRCULAR	42	42	195	887.2	885.2	32	No
L05338	P05340	P05338	150	2.67	CIRCULAR	42	42	142	891.2	887.2	31	No
L06408	P06410	J06408	107.95	0.93	CIRCULAR	18	18	9	891.0	889.1	6	No
L06412	P06414	J06412	96.03	2.08	CIRCULAR	18	18	13	902.5	900.1	2	No
L06416	P06418	J06416	99.94	2	CIRCULAR	18	18	13	901.5	899.1	3	No
L06419	J06420	J06419	39.28	20.37	CIRCULAR	18	18	41	909.0	900.2	20	No
L06422	P06424	J06422	106.7	0.47	CIRCULAR	18	18	6	910.3	909.6	1	No
L07102	P07107	P07102	100	0.5	CIRCULAR	24	24	14	892.2	892.2	6	yes
L07107	P07106	P07107	100	0.2	CIRCULAR	24	24	9	892.3	892.2	7	yes
L07202	P07204	J07202	300	4.33	CIRCULAR	18	18	13	885.6	872.4	3	No
L07204	P07206	P07204	77	10.39	CIRCULAR	18	18	20	900.4	885.6	20	No
L07206	J07208	P07206	100	0.5	CIRCULAR	18	18	6	901.3	900.4	13	yes
L07414	P07102	P07414	100	0.5	CIRCULAR	15	15	4	892.2	892.2	4	yes
L08302	P08304	J08302	90	2.78	CIRCULAR	18	18	15	886.4	883.6	1	No
L08328	P08330	J08328	91.17	1.1	Arch	60	108	481	870.2	870.1	81	No
L08406	CB08408	P08406	50	0.2	CIRCULAR	15	15	3	887.1	887.1	9	yes
L08407	P08418	P08408	50	11.4	CIRCULAR	18	18	22	892.4	885.0	10	No
L08408	P08416	P08408	35	0.57	CIRCULAR	15	15	4	885.0	885.0	8	yes
L08409	CB08406	P08406	50	3	CIRCULAR	18	18	16	888.6	887.1	19	yes
L08410	P07112	P08410	130	1.15	Arch	27.6	18	23	890.4	889.8	2	No
L08416	CB08420	P08416	30	13.33	CIRCULAR	15	15	20	885.0	885.0	10	No
L08417	CB08418	P08416	50	0.2	CIRCULAR	15	15	3	887.4	885.0	11	yes
L08418	P08420	P08418	105	1.05	CIRCULAR	15	15	6	896.2	892.4	9	No
L09123	P09434	P09122	1659.56	0.03	CIRCULAR	15	15	1	885.6	890.0	1	No

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2P Pipe	2P	1P	172	0.58	CIRCULAR	21	21	10	869.5	868.6	15	Yes
3P pipe	3P	2P	115	0.55	CIRCULAR	18	18	7	871.1	869.5	9	No
L17400	P17400	CB17400	107.87	-0.76	CIRCULAR	15	15	5	872.0	871.9	1	No
L17402	CB17401	MH17401	51.89	1.16	CIRCULAR	15	15	6	871.7	871.5	1	No
L174111	P17406	CB17402	100	0.3	CIRCULAR	15	15	3	873.3	873.0	0	No
L174112	CB17402	CB17403	31	0.65	CIRCULAR	15	15	5	873.0	872.8	0	No
L174113	CB17403	J17405	181.73	0.72	CIRCULAR	15	15	5	872.8	872.0	0	No
L18302	CB18304	J18302	195	0.39	CIRCULAR	24	24	14	883.1	868.7	27	No
L18304	CB18306	CB18304	48	0.15	CIRCULAR	24	24	9	883.2	883.1	8	No
L18305	CB18310	CB18304	168.05	1.79	CIRCULAR	15	15	9	885.4	883.1	8	Yes
L18306	CB18308	CB18306	224.92	0.12	CIRCULAR	15	15	2	883.7	883.2	5	Yes
L18307	CB18312	CB18304	484	0.4	CIRCULAR	15	15	4	886.5	883.1	6	Yes
L18312	CB18314	CB18312	169	0.5	CIRCULAR	15	15	5	887.0	886.5	6	Yes
L18316	J18318	L18316	164	6.9	CIRCULAR	15	15	15	879.2	868.5	6	No
L18318	CB18320	J18318	350	0.35	CIRCULAR	15	15	3	884.5	879.2	6	No
L18322	CB18324	J18322	320	4.54	CIRCULAR	15	15	14	881.9	868.6	12	No
L18326	CB18328	J18326	195	0.39	CIRCULAR	24	24	14	880.8	878.1	12	No
L18328	CB18330	CB18328	48	0.13	CIRCULAR	24	24	8	881.9	880.8	1	No
L18329	CB18340	CB18328	293	0.2	CIRCULAR	18	18	5	884.6	880.8	9	Yes
L18330	J18332	CB18330	275	0.1	CIRCULAR	15	15	2	882.5	881.9	1	No
L18336	CB18338	J18336	198	0.29	CIRCULAR	15	15	3	890.3	885.9	5	No
L18339	CB18339	CB18338	68	0.28	CIRCULAR	15	15	3	893.5	890.3	11	Yes
L20306	P20400	P20306	125	0	CIRCULAR	24	24	1	870.2	869.8	0	No
L21202-E	P21204-E	P21202-E	90	0.33	CIRCULAR	15	15	4	868.4	868.3	3	Yes
L21204-E	P21206-E	P21204-E	86	0.58	CIRCULAR	15	15	4	868.5	868.4	4	Yes
L21400	P21402	P21400	100	2	CIRCULAR	24	24	28	876.9	867.8	9	No
L27300	CB27302	J27300	176.06	0.01	CIRCULAR	18	18	15	863.5	863.4	5	No
L27301	P27306	J27300	120.3	0.06	CIRCULAR	18	18	3	862.9	863.4	4	No

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
L27302	CB27304	CB27302	153.25	0.03	CIRCULAR	18	18	2	863.5	863.5	3	Yes
L27308	P34400	O27308	90	0	Arch	18	15	0	863.1	860.0	3	No
L28100	P28102	CB28100	1050	0.25	Arch	45	72	99	865.3	864.5	68	Yes
L28100-E	CB28102-E	CB28136	120.01	-0.52	CIRCULAR	24	24	16	865.5	865.4	11	Yes
L28101	J28116	P28102	10	0	CIRCULAR	15	15	1	865.3	865.3	5	Yes
9P outlet	9P	1P	108	4.31	CIRCULAR	15	15	12	868.6	868.6	3	Yes
L28102-E	P28104-E	CB28102-E	415	0.36	CIRCULAR	24	24	14	864.3	865.5	12	No
L28103	CB28130	P28102	50	0.1	CIRCULAR	24	24	7	865.4	865.3	21	Yes
L28104	CB28106	P28104	43	0.22	Arch	36	58	53	865.3	865.3	64	Yes
L28104-E	P28106-E	P28104-E	70	0.71	CIRCULAR	18	18	9	865.8	864.3	10	No
L28105	J28132	P28102	150	0.39	CIRCULAR	60	60	152	865.3	865.3	80	No
L28105-E	MH28154-E	P28104-E	90	0.11	CIRCULAR	18	18	42	865.9	864.3	8	No
L28106	CB28254	P28104	70	0.21	CIRCULAR	42	42	43	865.4	865.3	41	Yes
L28106a	CB28108	CB28106	56	0.2	Arch	36	58	50	865.4	865.3	58	Yes
L28106-E	CB28108-E	P28106-E	100	0.46	CIRCULAR	48	48	97	866.8	865.8	33	No
L28107	CB28120	P28104	67	0.55	CIRCULAR	33	33	36	865.4	865.3	37	Yes
L28107a	CB28146	P28102	50	0.76	CIRCULAR	48	48	116	865.3	865.3	76	Yes
L28107-E	CB28142-E	P28106-E	282.65	0.18	CIRCULAR	18	18	4	867.9	865.8	7	No
L28108	J28110	CB28108	208	0.5	CIRCULAR	36	36	44	868.1	865.4	28	Yes
L28108-E	CB28110-E	CB28108-E	94.51	0.28	CIRCULAR	30	30	22	867.8	866.8	31	No
L28109	J28156	P28102	120	0.1	CIRCULAR	54	54	58	865.3	865.3	58	Yes
L28109-E	CB28138-E	CB28110-E	209.73	1.56	CIRCULAR	12	12	4	868.5	867.8	2	No
L28110	CB28112	J28110	300	0.5	CIRCULAR	30	30	27	869.5	868.1	28	Yes
L28110-E	CB28112-E	CB28110-E	110	0.55	CIRCULAR	27	27	23	869.2	867.8	28	Yes
L28111	CB28256	P28104	50	0.38	CIRCULAR	21	21	9	865.3	865.3	5	Yes
L28111-E	CB28134-E	CB28110-E	163.57	0.41	CIRCULAR	15	15	4	868.2	867.8	4	Yes
L28112	CB28114	CB28112	320	0.5	CIRCULAR	24	24	15	870.0	869.5	13	Yes
L28112-E	CB28114-E	CB28112-E	186.54	0.36	CIRCULAR	27	27	19	870.6	869.2	23	Yes

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L28113-E	CB28140-E	CB28112-E	223.47	1.24	CIRCULAR	12	12	4	871.8	869.2	4	Yes
L28114-E	CB28116-E	CB28114-E	218.56	0.69	CIRCULAR	27	27	26	871.0	870.6	11	Yes
L17401	CB17400	CB17401	27	-0.3	CIRCULAR	15	15	3	871.9	871.7	1	No
L28115-E	CB28124-E	CB28114-E	62.98	0.79	CIRCULAR	24	24	20	870.9	870.6	14	Yes
L28116-E	CB28118-E	CB28116-E	286.64	0.23	CIRCULAR	21	21	8	871.8	871.0	6	Yes
L28118	P28104	N28118	10	0	CIRCULAR	15	15	1	865.3	865.3	7	Yes
L28118-E	CB28120-E	CB28118-E	134.75	1.22	CIRCULAR	15	15	7	870.9	871.8	1	No
L28119-E	CB28122-E	CB28118-E	78.67	0.6	CIRCULAR	18	18	8	872.6	871.8	5	Yes
L28120	J28122	CB28120	250	1	CIRCULAR	18	18	10	867.7	865.4	11	Yes
L28121	J28126	CB28120	191	0.5	CIRCULAR	30	30	27	865.8	865.4	24	Yes
L28122	P28124	J28122	40	0.5	CIRCULAR	18	18	7	868.2	867.7	12	Yes
L28124-E	CB28126-E	CB28124-E	332.53	0.23	CIRCULAR	24	24	11	871.3	870.9	11	Yes
L28126	CB28128	J28126	200	0.49	CIRCULAR	30	30	27	867.8	865.8	24	Yes
L28126-E	CB28128-E	CB28126-E	137.89	0.23	CIRCULAR	21	21	8	871.6	871.3	7	Yes
L28128-E	CB28132-E	CB28128-E	316.76	0.32	CIRCULAR	18	18	6	872.6	871.6	7	Yes
L28129-E	CB28130-E	CB28128-E	194.16	0.22	CIRCULAR	12	12	2	872.0	871.6	2	Yes
L28132	CB28134	J28132	300	0.09	CIRCULAR	60	60	74	865.3	865.3	81	No
L28134a	CB28136	CB28134	130	0.42	CIRCULAR	54	54	119	865.4	865.3	55	No
L28134-E	P28136-E	CB28134-E	193.08	0.83	CIRCULAR	15	15	6	867.8	868.2	4	No
L28136	J28138	CB28136	100	0.69	CIRCULAR	30	30	32	866.0	865.4	21	Yes
L28136-E	P21202-E	P28136-E	100	0.2	CIRCULAR	18	18	3	868.3	867.8	4	No
L28137	CB28144	CB28136	300	0.65	CIRCULAR	27	27	23	870.4	865.4	21	Yes
L28138	CB28140	J28138	250	0.44	CIRCULAR	27	27	19	869.9	866.0	21	Yes
L28143-E	MH28144-E	P28143-E	30	2.5	CIRCULAR	48	48	227	866.2	866.2	17	No
L28144-E	MH28146-E	MH28144-E	19.78	0.51	CIRCULAR	48	48	102	866.2	866.2	10	No
L28145-E	MH28148-E	MH28146-E	64.82	0.08	CIRCULAR	12	12	1	866.7	866.2	3	Yes
L28146	CB28148	CB28146	220	0.12	Arch	36	58	39	867.3	865.3	68	Yes
L28146-E	MH28150-E	MH28146-E	399.16	-0.03	CIRCULAR	36	36	11	866.4	866.2	7	No

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L28148	CB28150	CB28148	600	0.21	CIRCULAR	27	27	13	869.6	867.3	23	Yes
L28149	CB28154	CB28148	350	0.54	CIRCULAR	33	33	36	871.1	867.3	24	Yes
L28150	CB28152	CB28150	320	0.13	CIRCULAR	27	27	11	871.8	869.6	6	Yes
L28150-E	MH28152-E	MH28150-E	296.88	0.13	CIRCULAR	30	30	15	866.5	866.4	4	No
L28154-E	P28143-E	MH28154-E	40	0	CIRCULAR	18	18	1	866.2	865.9	12	Yes
L28156	CB28158	J28156	100	0.1	CIRCULAR	27	27	9	865.4	865.3	21	Yes
L28157	CB28162	J28156	300	0.1	CIRCULAR	30	30	12	865.3	865.3	14	Yes
L28158	CB28160	CB28158	180	0.39	CIRCULAR	21	21	9	866.4	865.4	14	Yes
L28159	CB28164	J28156	280	0.1	CIRCULAR	42	42	30	865.3	865.3	25	Yes
L28164	CB28166	CB28164	365	0.1	CIRCULAR	42	42	29	865.4	865.3	24	Yes
L28188	J28490	J28488	400	0.5	CIRCULAR	36	36	41	865.8	870.0	27	Yes
L28201	P28310	J28202	20	-0.15	CIRCULAR	48	48	52	862.4	861.4	111	Yes
L28202	J28204	J28202	120.29	0.12	CIRCULAR	60	60	218	861.4	861.4	37	Yes
L28204	J28206	J28204	141	0.1	CIRCULAR	60	60	76	861.4	861.4	37	Yes
L28206	J28208	J28206	343	0.1	CIRCULAR	60	60	71	861.3	861.4	37	Yes
L28208	J28210	J28208	360	0.1	CIRCULAR	60	60	76	861.1	861.3	37	Yes
L28210	J28212	J28210	360	0.1	CIRCULAR	60	60	76	861.0	861.1	37	Yes
L28212	J28214	J28212	360	0.1	CIRCULAR	60	60	76	860.9	861.0	37	Yes
L28214	J28216	J28214	360	0.1	CIRCULAR	60	60	76	860.8	860.9	37	Yes
L28216	J28218	J28216	246	0.1	CIRCULAR	60	60	77	862.2	860.8	151	Yes
L28218	P28220	J28218	210	2.33	Rectangular	36	84	352	863.5	862.2	151	Yes
L28219	P28228	P28220	591	-0.04	Arch	72	114	135	863.4	863.5	150	Yes
L28220	J28222	P28220	106	-0.33	Arch	54	88	193	863.6	863.5	94	Yes
L28221	CB28250	P28220	150	-0.31	CIRCULAR	36	36	35	864.9	863.5	50	Yes
L28222	CB28224	J28222	179	0.13	Arch	54	88	123	863.8	863.6	94	Yes
L28223	CB28252	P28220	200	-0.21	CIRCULAR	30	30	17	864.5	863.5	28	Yes
L28224	CB28226	CB28224	500	0.1	Arch	54	87	104	864.2	863.8	73	Yes
L28225	J27300	P28220	341.37	1.74	CIRCULAR	24	24	30	863.4	863.5	4	No

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L28226	CB28100	CB28226	300	0.1	Arch	54	87	102	864.5	864.2	73	Yes
L28228	CB28230	P28228	239	0.07	Arch	72	114	181	863.4	863.4	152	Yes
L28230	CB28232	CB28230	365	0.07	Arch	54	88	88	863.4	863.4	104	Yes
L28231	J28246	CB28230	750	0.17	Arch	36	58	46	865.4	863.4	32	Yes
L28232	CB28234	CB28232	265	0.07	Arch	54	88	87	863.3	863.4	77	Yes
L28234	J28236	CB28234	440	0.07	Arch	54	88	88	863.8	863.3	80	Yes
L28236	J28238	J28236	340	0.13	Arch	54	88	121	864.1	863.8	80	Yes
L28237	P28244	J28238	125	1.18	Arch	31	51	85	864.6	864.1	36	Yes
L28238	J28240	J28238	260	0.1	CIRCULAR	60	60	75	865.0	864.1	45	Yes
L28240	P28242	J28240	200	0.11	CIRCULAR	42	42	30	864.4	865.0	18	Yes
L28244	P28326	P28244	200	0.38	Arch	31	51	48	865.2	864.6	33	Yes
L28246	P28248	J28246	280	0.1	CIRCULAR	33	33	16	864.0	865.4	13	Yes
L28300	J28302	J28300	300	1.63	CIRCULAR	42	42	111	851.7	846.7	28	No
L28301	P28334	Mh28305	44	-3	CIRCULAR	30	30	62	854.3	853.5	28	Yes
L28302	P28304	P28334	146	0.25	CIRCULAR	42	42	47	854.4	854.3	25	Yes
L28303	Mh28305	J28302	400	0.1	CIRCULAR	42	42	28	853.5	851.7	28	No
L28305	MH28306	J28302	129.86	0.32	CIRCULAR	42	42	2	851.7	851.7	0	No
L28306	J28200	I28337	6.03	3.48	CIRCULAR	72	72	785	854.4	862.0	4	No
L28310	CB28312	P28310	187	0.18	CIRCULAR	54	54	153	863.0	862.4	137	Yes
L28312	CB28314	CB28312	560	0.1	CIRCULAR	84	84	188	863.3	863.0	119	No
L28314	CB28316	CB28314	357	0.1	CIRCULAR	84	84	188	863.6	863.3	105	No
L28316	CB28318	CB28316	506	0.1	CIRCULAR	84	84	188	863.8	863.6	95	No
L28317	CB28400	CB28318	650	0.1	CIRCULAR	72	72	124	863.9	863.8	66	No
L28318	P28320	CB28318	340	0.2	CIRCULAR	48	48	60	864.3	863.8	50	Yes
L28320	CB28324	P28320	300	1.34	CIRCULAR	18	18	11	868.1	864.3	10	Yes
L28321	CB28322	P28320	660	0.26	CIRCULAR	24	24	11	865.1	864.3	7	Yes
L28326	CB28328	P28326	400	0.1	Arch	26	43	16	866.5	865.2	23	Yes
L28400	J28102	CB28400	500	0.1	CIRCULAR	72	72	122	863.9	863.9	38	No

PIPE ID	FROM NODE	TO NODE	LENGTH (ft)	AVERAGE PIPE SLOPE %	PIPE SHAPE	PIPE DIAMETER (in)	PIPE WIDTH (in)	DESIGN FLOW CAPACITY (cfs)	MAXIMUM US HGL (ft)	MAXIMUM DS HGL (ft)	PEAK FLOW DURING ANALYSIS (CFS)	PIPE FLOWING FULL?
L28401	J28488	CB28400	600	0.2	CIRCULAR	36	36	28	870.0	863.9	27	Yes
L28402	J28404	J28102	125	0.05	CIRCULAR	42	42	20	863.9	863.9	34	Yes
L28403	CB28476	J28102	420	0.27	Arch	45	72	106	864.2	863.9	53	No
L28404	J28406	J28404	605	0.05	CIRCULAR	42	42	21	864.2	863.9	34	Yes
L28405	CB28454	P28408	220	0.1	CIRCULAR	72	72	122	864.3	864.3	100	No
L28406	P28408	J28406	100	0.15	Rectangular	24	60	33	864.3	864.2	130	Yes
L28407	CB28430	P28408	100	0.6	CIRCULAR	21	21	11	864.3	864.3	13	Yes
L28408	CB28410	P28408	215	0.05	CIRCULAR	54	54	41	864.5	864.3	33	No
L28409	J28432	P28408	150	0.27	CIRCULAR	60	60	126	864.3	864.3	14	No
L28410	P28412	CB28410	107	0.05	CIRCULAR	48	48	29	864.3	864.5	24	No
L28411	CB28426	CB28410	330	0.1	CIRCULAR	42	42	30	866.0	864.5	36	No
L28413	CB28470	P28408	100	0.14	CIRCULAR	48	48	50	864.3	864.3	40	Yes
L28414	P28416	P28414	116	0.22	CIRCULAR	30	30	18	867.2	864.3	36	No
L28415	CB28401	P28402	220	0.5	CIRCULAR	18	18	6	877.4	876.6	3	No
L28416	P29104	P28416	60	0.1	CIRCULAR	24	24	6	866.3	867.2	17	No
L28417	MH28401	MH28402	24.7	2.06	CIRCULAR	15	15	8	873.1	872.7	1	No
L28418	MH28402	MH28403	232.36	0.5	CIRCULAR	18	18	6	872.7	871.4	1	No
L28419	MH28403	MH28404	43.44	0.99	CIRCULAR	24	24	20	871.4	870.9	1	No
L28420	MH28404	MH28405	30.14	1	CIRCULAR	24	24	20	870.9	870.7	1	No
L28421	MH28405	CB28406	324.57	1.04	CIRCULAR	24	24	20	870.7	866.2	5	No
L28422	P28403	CB28406	432.27	0.14	CIRCULAR	27	27	10	866.4	866.2	1	No
L28423	CB28407	P28404	94.17	0.46	CIRCULAR	18	18	6	870.4	869.9	3	No
L28424	P28404	P28405	164.3	0.6	CIRCULAR	21	21	11	869.9	869.2	4	No
L28425	P28405	P28406	177.99	0.47	CIRCULAR	24	24	13	869.2	868.5	6	No
L28426	CB28428	CB28426	380	0.21	CIRCULAR	33	33	22	866.8	866.0	19	Yes
L28427	P28406	P28407	148.52	0.55	CIRCULAR	24	24	15	868.5	867.9	8	No
L28428	P28407	CB28408	168.11	0.47	CIRCULAR	24	24	13	867.9	866.8	9	No
L28429	CB28408	CB28409	140.84	0.5	CIRCULAR	30	30	25	866.8	865.9	9	No

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L28430	CB28409	CB28412	149.41	0.91	CIRCULAR	33	33	44	865.9	865.1	12	No
L28431	CB28406	CB28411	281.54	0.25	CIRCULAR	48	48	63	866.2	865.7	6	No
L28432	CB28434	P28440	214	0.26	Arch	45	72	103	864.3	863.6	32	No
L28433	CB28411	CB28412	315.8	0.14	CIRCULAR	60	60	84	865.7	865.1	18	No
L28434	CB28413	CB28411	142.32	1.1	CIRCULAR	36	36	61	866.4	865.7	11	No
L28435	CB28414	CB28413	87.52	1.58	CIRCULAR	30	30	45	867.8	866.4	7	No
L28436	CB28415	CB28414	109.46	0.59	CIRCULAR	24	24	15	868.8	867.8	7	No
L28437	CB28416	CB28415	98.08	0.53	CIRCULAR	18	18	7	869.0	868.8	3	No
L28439	P28410	CB28415	75.79	0.51	CIRCULAR	18	18	7	869.1	868.8	4	No
L28440	P28409	P28410	220.74	0.49	CIRCULAR	18	18	6	869.8	869.1	2	No
L28441	P28411	P28413	173.23	0.5	CIRCULAR	18	18	6	868.3	868.0	4	No
L28442	P28413	P28415	220.61	0.5	CIRCULAR	18	18	6	868.0	867.6	4	Yes
L28449	P28420	CB28412	142	0.39	CIRCULAR	15	15	3	861.8	865.1	0	No
L28454	CB28456	CB28454	300	0.23	CIRCULAR	54	54	88	865.3	864.3	80	No
L28455	J28466	CB28456	290	0.33	CIRCULAR	42	42	54	866.0	865.3	34	Yes
L28456	CB28458	CB28456	445	0.28	CIRCULAR	42	42	49	866.2	865.3	34	Yes
L28458	CB28460	CB28458	389	0.28	CIRCULAR	42	42	49	866.6	866.2	32	No
L28460	CB28462	CB28460	188	0.28	CIRCULAR	42	42	49	866.9	866.6	31	No
L28462	CB28464	CB28462	400	0.41	CIRCULAR	27	27	19	871.1	866.9	23	Yes
L28466	J28468	J28466	350	0.53	CIRCULAR	27	27	21	868.5	866.0	16	Yes
L28470	P28472	CB28470	360	0.13	CIRCULAR	33	33	18	864.4	864.3	23	Yes
L28472	P28474	P28472	150	0.1	CIRCULAR	33	33	16	865.0	864.4	23	Yes
L28475	CB28186	CB28476	100	0.27	CIRCULAR	54	54	95	864.2	864.2	1	No
L28476	J28478	CB28476	130	0.28	Arch	40	65	79	864.3	864.2	27	Yes
L28478	CB28480	J28478	210	0.1	CIRCULAR	42	42	30	864.5	864.3	28	No
L28480	CB28482	CB28480	170	0.11	CIRCULAR	42	42	30	864.7	864.5	25	No
L28482	CB28484	CB28482	150	0.11	CIRCULAR	42	42	31	864.8	864.7	18	No
L28484	P28486	CB28484	470	0.2	CIRCULAR	27	27	13	865.7	864.8	13	Yes

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L28490	P28492	J28490	56	-0.38	CIRCULAR	36	36	58	866.2	865.8	40	Yes
L28492	J28494	P28492	28	0.5	CIRCULAR	36	36	44	866.4	866.2	65	Yes
L28494	J28496	J28494	46	0.5	CIRCULAR	36	36	44	868.2	866.4	65	Yes
L28496	CB28498	J28496	12.5	0.4	CIRCULAR	36	36	39	869.0	868.2	65	Yes
L28497	CB29106	CB28498	80	0.2	CIRCULAR	36	36	28	869.4	869.0	39	Yes
L28498	CB28499	CB28498	76	0.5	CIRCULAR	24	24	15	870.1	869.0	25	Yes
L29100	P29102	CB29105	371.55	0.5	CIRCULAR	18	18	6	869.4	868.4	4	No
L29102	CB29105	P29100	26.71	1.87	CIRCULAR	18	18	12	868.4	868.4	4	Yes
L29104	CB29104	P29102	39.89	0.18	CIRCULAR	12	12	1	871.2	869.4	5	No
L30102	CB30104	O30101	345.94	0.23	CIRCULAR	24	24	11	852.8	849.0	16	Yes
L30104	CB30106	CB30104	244.41	0.08	CIRCULAR	18	18	36	852.0	852.8	9	Yes
L30106	CB30108	CB30106	802.88	1.18	CIRCULAR	12	12	4	862.0	852.0	4	Yes
L33404	J33408	O33404	10	10	CIRCULAR	4	4	1	842.5	850.5	4	Yes
L33408	J33410	J33408	176	1.51	CIRCULAR	42	42	107	861.3	842.5	98	Yes
L33410	J33412	J33410	294	1.5	CIRCULAR	42	42	114	843.0	861.3	28	No
L33412	J28300	J33412	300	1.49	CIRCULAR	42	42	114	846.7	843.0	28	No
L5065	5065	CB28100	257.71	0.57	CIRCULAR	24	24	15	867.8	864.5	22	Yes
L5066	5066	5065	214.13	0.51	CIRCULAR	24	24	14	866.4	867.8	11	Yes
L5067	5067	5066	218.78	0.42	CIRCULAR	18	18	6	867.5	866.4	4	Yes
L5073	5073	5065	66.74	0.72	CIRCULAR	15	15	5	868.9	867.8	4	Yes
L5074	5074	5066	65.95	0.86	CIRCULAR	21	21	13	866.5	866.4	10	Yes
L5200	5200	5067	103.59	0.29	CIRCULAR	15	15	3	866.5	867.5	2	Yes
L5202	5202	5067	41.18	0.44	CIRCULAR	18	18	6	867.2	867.5	3	Yes
L5203	5203	5202	94.35	0.35	CIRCULAR	18	18	5	867.2	867.2	4	Yes
L5204	5204	5203	99.58	0.27	CIRCULAR	18	18	5	866.7	867.2	5	Yes
L-A1	A1	5065	65	1	CIRCULAR	24	24	20	868.2	867.8	14	Yes
L-A2	A2	A1	165	1	CIRCULAR	21	21	14	868.2	868.2	9	Yes
L-A3	A3	A2	40	1	CIRCULAR	15	15	6	867.8	868.2	6	Yes

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Link-05	J28353A	I28348	47	0.4	CIRCULAR	12	12	2	870.0	862.0	4	Yes
Link-06	J28376	J28374	7.13	1.96	CIRCULAR	18	18	13	874.0	873.9	0	No
Link-07	J28374	I28372	27.33	0.88	CIRCULAR	18	18	9	873.9	862.0	0	No
Link-08	J28362	P28336	127	0.31	CIRCULAR	30	30	23	860.8	860.4	23	No
Link-10	I28366	I28364	62.51	1.68	CIRCULAR	18	18	12	862.0	862.0	1	No
Link-11	CB28412	CB28434	57	0.14	Arch	45	72	72	865.1	864.3	32	No
Link-12	I28362	I28364	34.22	0.7	CIRCULAR	18	18	8	862.0	862.0	0	No
Link-13	I28364	I28368	56.5	0.81	CIRCULAR	18	18	8	862.0	862.0	2	No
Link-14	J28380	I28380	61.28	0.46	CIRCULAR	18	18	6	870.8	862.0	1	No
Link-15	I28380	J28378	21.43	1.49	CIRCULAR	18	18	11	862.0	870.3	2	No
Link-25	I28337	P28304	91.97	0.34	CIRCULAR	72	72	228	862.0	854.4	17	No
Link-26	J28433	P28418	371.31	0.08	CIRCULAR	42	42	25	867.3	867.2	13	Yes
Link-27	J28431	J28433	130.06	1.66	CIRCULAR	24	24	25	867.4	867.3	9	Yes
Link-30	P28415	P28417	162.38	0.5	CIRCULAR	21	21	10	867.6	867.3	7	Yes
Link-31	P28417	J28430	95.49	1.15	CIRCULAR	24	24	21	867.3	870.9	5	Yes
Link-32	J28430	J28433	163.57	0.62	CIRCULAR	33	33	36	870.9	867.3	12	Yes
Link-35	P-6	P29104	50	-1.6	CIRCULAR	36	36	219	874.3	866.3	4	No
Link-40	1P	1P outlet	32	-5	CIRCULAR	18	18	20	868.6	868.0	8	Yes
Link-42	1P outlet	RTC Connect	426	0.12	CIRCULAR	36	36	20	868.0	868.0	0	Yes
P-33	I28360	I28358	10.85	1.66	CIRCULAR	18	18	12	862.0	862.0	0	Yes
P-38A	I28352	I28356	69.17	0.39	CIRCULAR	15	15	4	862.0	862.0	3	No
P391	I28372	I28370	73.42	6.69	CIRCULAR	18	18	24	862.0	862.0	0	No
P392	I28370	J28372	92.42	0.94	CIRCULAR	18	18	9	862.0	868.6	5	No
Pipe - (11)	I28348	I28346	37.5	0.51	CIRCULAR	15	15	5	862.0	862.0	4	No
Pipe - (28)	I28378	I28376	36	0.33	CIRCULAR	18	18	10	862.0	862.0	2	No
Pipe 10	I28336	I28334	35	0.26	CIRCULAR	15	15	3	862.0	862.0	3	No
Pipe 11	CBMH13	J28360	55	0.58	CIRCULAR	24	24	17	862.0	857.6	8	No
Pipe 12	J28360	J28358	454	0.22	CIRCULAR	24	24	11	857.6	856.8	8	No

