

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-11	MH-4436	MH-4923	583.63	583.2	581.38	581.21	36.7	150	0.6	221.297	1.0218	0.3163	2	2.1	1.84	37.1	0.011	HDPE
ZONE 235-1507	MH-5272	MH-1570	586.31	586.68	585.36	585.33	36.8	150	0.23	1,000.00	0.4807	0.0682	1	0.8	1.2	20.9	0.011	HDPE
ZONE 235-4863	MH-1719	MH-3482	598.82	599.3	597.69	597.38	36.4	150	0.6	116.626	1.4075	0.1415	1.4	0.98	1.77	22.6	0.011	HDPE
ZONE 235-1372	MH-2370	MH-4439	593	592.52	589.97	589.93	36.8	150	0.18	1,000.00	0.4807	0.0335	2.7	2.88	2.44	20.8	0.011	HDPE
ZONE 235-3680	MH-5280	MH-5281	578.76	579.41	577.81	577.78	30.7	150	0.11	1,000.00	0.4807	0.0058	1.1	0.8	1.48	9.7	0.011	HDPE
ZONE 235-6005	MH-2257	MH-2735	577.48	576.56	575.98	575.61	36.9	150	0.86	100	1.52	0.4178	1.1	1.36	0.8	38.8	0.011	HDPE
ZONE 235-1754	MH-4545	MH-5287	579.48	579.39	578.27	578.24	36.9	150	0.23	1,000.00	0.4807	0.0687	1	1.06	1.01	27.5	0.011	HDPE
ZONE 235-3901	MH-5289	MH-3683	577.36	576.26	575.68	575.31	37	150	0.32	100	1.52	0.0145	1.2	1.54	0.8	7.2	0.011	HDPE
ZONE 235-1447	MH-4826	MH-5290	590.09	589.94	588.89	588.81	36.9	175	0.6	482.548	1.1481	0.7545	1	1.02	0.95	52.6	0.01	HDPE
ZONE 235-3770	MH-1365	MH-5291	581.5	581.86	580.55	580.91	35.8	150	0.27	100.817	1.5139	0.0084	0.8	0.8	0.8	11.1	0.011	HDPE
ZONE 235-1743	MH-148	MH-5294	570.36	571.32	569.41	569.71	29.6	150	0.41	100	1.52	0.0331	1.1	0.8	1.46	23.4	0.011	HDPE
ZONE 235-1373	MH-1590	MH-4113	592.35	591.26	590.69	590.31	37	150	0.52	100	1.52	0.0746	1.2	1.52	0.8	16.1	0.011	HDPE
ZONE 235-6625	MH-45	MH-5297	598.22	597.88	597	596.68	31.9	400	1.42	100	22.8644	2.5853	0.8	0.81	0.8	26.4	0.01	HDPE
ZONE 235-4447	MH-2465	MH-1523	595.06	596.06	594.05	594.42	37.1	217	1.37	100	4.476	1.9407	1.1	0.8	1.43	59.2	0.01	HDPE
ZONE 235-1550	MH-5298	MH-3284	587.23	587.79	586.28	586.24	37.1	150	0.16	1,000.00	0.4807	0.02	1.1	0.8	1.4	17.1	0.011	HDPE
ZONE 235-4574	MH-631	MH-4308	601.35	601.43	599.97	599.76	37.2	150	0.6	178.094	1.139	0.2401	1.4	1.23	1.52	44.8	0.011	HDPE
ZONE 235-1775	MH-5294	MH-3739	571.32	572.41	570.37	570.68	31	150	0.33	100	1.52	0.0163	1.2	0.8	1.58	7.7	0.011	HDPE
ZONE 235-1789	MH-3901	MH-4820	571.81	572	568.93	568.86	37.5	217	0.6	563.41	1.8857	0.9399	2.8	2.67	2.92	49.7	0.01	HDPE
ZONE 235-4618	MH-5305	MH-804	593.87	593.47	592.89	592.52	37.5	150	0.66	100	1.52	0.1608	0.8	0.82	0.8	23.7	0.011	HDPE
ZONE 235-4633	MH-3237	MH-5307	602.22	601.73	601.15	600.78	37.6	150	0.66	100	1.52	0.1629	0.9	0.92	0.8	23.9	0.011	HDPE
ZONE 235-3990	MH-4851	MH-5309	565.72	566.14	564.77	565.14	37.6	150	0.39	100	1.52	0.0289	0.8	0.8	0.85	10.1	0.011	HDPE
ZONE 235-4597	MH-5310	MH-2963	589.1	589.95	587.9	588.28	37.6	400	1.6	100	20.7858	4.9639	1	0.8	1.27	37.7	0.011	HDPE
ZONE 235-14	MH-1117	MH-5311	582.68	581.88	578.41	578.35	20.2	175	0.6	387.174	1.2818	0.5369	3.7	4.1	3.36	41.9	0.01	HDPE
ZONE 235-1588	MH-3537	MH-4984	584.5	583.95	583.38	583	37.7	150	0.92	100	1.52	0.5276	0.9	0.97	0.8	43.8	0.011	HDPE
ZONE 235-4308	MH-4234	MH-1743	598.43	598.47	597.48	597.3	37.7	150	0.6	216.702	1.0326	0.3069	0.9	0.8	1.02	37.3	0.011	HDPE
ZONE 235-1639	MH-5318	MH-2493	582.54	582.96	581.59	581.56	37.8	150	0.16	1,000.00	0.4807	0.0213	1	0.8	1.25	16.6	0.011	HDPE
ZONE 235-5092	MH-5319	MH-1830	566.91	566.41	565.83	565.46	37.8	150	0.97	100	1.52	0.6385	0.9	0.92	0.8	48.6	0.011	HDPE
ZONE 235-4779	MH-5320	MH-345	597.76	597.72	594.66	594.62	33.1	450	0.74	1,000.00	8.9986	6.9661	2.6	2.65	2.64	72.6	0.011	HDPE
ZONE 235-3605	MH-5322	MH-321	577.66	577.87	575.34	575.3	40	150	0.2	1,000.00	0.4807	0.044	2.3	2.17	2.43	32.7	0.011	HDPE
ZONE 235-3627	MH-5324	MH-2957	582.52	583.66	581.57	581.94	37.9	150	0.36	100	1.52	0.0217	1.2	0.8	1.57	16	0.011	HDPE
ZONE 235-4281	MH-4866	MH-4447	593.84	592.87	592.3	591.92	37.9	150	0.44	100	1.52	0.0405	1.1	1.39	0.8	13.9	0.011	HDPE
ZONE 235-1459	MH-5336	MH-5337	588.95	589.16	588	587.68	38	150	0.6	118.944	1.3937	0.1448	1.1	0.8	1.33	25.4	0.011	HDPE
ZONE 235-1338	MH-3991	MH-5338	593.46	593.54	592.51	592.47	38	150	0.21	1,000.00	0.4807	0.0504	0.9	0.8	0.91	24	0.011	HDPE
ZONE 235-5781	MH-4450	MH-4353	573.8	572.4	571.83	571.45	38.1	150	0.5	100	1.52	0.0637	1.3	1.82	0.8	21.5	0.011	HDPE
ZONE 235-1506	MH-5343	MH-4372	588.42	588.38	587.47	587.34	38.2	150	0.36	274.143	0.918	0.0679	0.8	0.8	0.89	25.3	0.011	HDPE
ZONE 235-4314	MH-70	MH-3825	600.47	601.12	599.52	599.93	41.7	150	0.55	100	1.52	0.0857	0.9	0.8	1.03	17.3	0.011	HDPE
ZONE 235-1282	MH-4162	MH-3547	592.8	593.14	591.71	592.05	38.3	150	0.6	112.228	1.4348	0.1351	0.9	0.94	0.94	24.5	0.011	HDPE
ZONE 235-4745	MH-5348	MH-3111	595.18	594.35	593.78	593.4	38.3	150	0.45	100	1.52	0.045	1	1.24	0.8	12.6	0.011	HDPE
ZONE 235-5031	MH-5311	MH-5351	581.88	580.76	577.87	577.78	38.3	175	0.6	425.092	1.2233	0.6159	3.3	3.84	2.81	46.5	0.01	HDPE
ZONE 235-4491	MH-5352	MH-49	596.94	596.5	595.93	595.55	38.3	150	0.25	100	1.52	0.0065	0.8	0.85	0.8	6.3	0.011	HDPE
ZONE 235-3963	MH-366	MH-3051	564.68	564.41	563.73	563.46	39.3	150	0.49	145.682	1.2594	0.0936	0.8	0.8	0.8	18.9	0.011	HDPE
ZONE 235-104	MH-5354	MH-5355	587.33	585.9	585.33	584.95	38.4	150	0.8	100	1.52	0.3183	1.3	1.85	0.8	33.7	0.011	HDPE
ZONE 235-1748	MH-5356	MH-2074	580.84	580.79	579.89	579.84	34.9	150	0.17	691.085	0.5782	0.0164	0.8	0.8	0.8	9.8	0.011	HDPE
ZONE 235-1859	MH-5357	MH-3017	565.95	566.21	565	564.91	30.7	150	0.6	367.332	0.8724	0.4961	1	0.8	1.15	49.7	0.01	HDPE
ZONE 235-3622	MH-4327	MH-5358	581.56	582.9	580.61	580.99	38.4	150	0.68	100	1.52	0.1793	1.3	0.8	1.75	25	0.011	HDPE
ZONE 235-1847	MH-4315	MH-4548	568.71	568.46	567.76	567.51	38.4	150	0.37	155.058	1.2207	0.0386	0.8	0.8	0.8	15	0.011	HDPE
ZONE 235-4428	MH-5361	MH-108	601.72	600.9	600.34	599.95	38.5	150	0.4	100	1.52	0.0295	1	1.23	0.8	12.7	0.011	HDPE
ZONE 235-1708	MH-4034	MH-387	587.39	587.06	585.37	585.08	35.5	150	0.6	119.696	1.3893	0.1459	1.9	1.87	1.83	24.9	0.011	HDPE
ZONE 235-1285	MH-4728	MH-4928	593.21	592.33	591.76	591.38	38.5	150	0.42	100	1.52	0.0362	1	1.29	0.8	11.3	0.011	HDPE
ZONE 235-1346	MH-4624	MH-4129	594.24	594.26	593.25	593.21	38.6	150	0.18	1,000.00	0.4807	0.0304	0.9	0.84	0.9	13.9	0.011	HDPE
ZONE 235-4513	MH-5366	MH-5367	610.18	609.33	608.77	608.38	38.6	150	0.75	100	1.52	0.2532	1	1.27	0.8	29.9	0.011	HDPE
ZONE 235-3931	MH-5368	MH-5369	580.07	580.31	579.12	579.36	38.7	150	0.46	167.075	1.176	0.0881	0.8	0.8	0.8	20.6	0.011	HDPE
ZONE 235-38	MH-4249	MH-1804	578.51	578.9	577.52	577.33	38.8	150	0.41	202.436	1.0683	0.0727	1.1	0.84	1.42	17.3	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-6518	MH-4721	MH-5372	583.75	585.05	582.8	583.19	38.7	150	1.03	100	1.52	0.7994	1.3	0.8	1.71	55	0.011	HDPE
ZONE 235-1361	MH-2158	MH-2668	591.98	592.18	591.03	591.23	38.8	150	0.36	197.576	1.0814	0.0486	0.8	0.8	0.8	14.1	0.011	HDPE
ZONE 235-4483	MH-5378	MH-5017	597.29	596.39	595.76	595.38	38.7	217	1.19	100	4.476	1.1236	1.1	1.31	0.8	38.6	0.01	HDPE
ZONE 235-1462	MH-5379	MH-4300	587.15	586.47	585.91	585.52	38.8	150	0.36	100	1.52	0.0215	0.9	1.09	0.8	8.7	0.011	HDPE
ZONE 235-4000	MH-5380	MH-431	565.07	565.44	564.12	564.08	38.1	150	0.18	1,000.00	0.4807	0.0333	1	0.8	1.2	14.6	0.011	HDPE
ZONE 235-1834	MH-5383	MH-5384	571.1	571.51	569.73	569.82	38.9	175	0.6	414.684	1.2385	0.5938	1.4	1.2	1.51	49.1	0.01	HDPE
ZONE 235-1269	MH-5386	MH-5206	594.55	594.58	591.79	591.72	38.9	217	0.6	554.661	1.9005	0.9181	2.6	2.54	2.64	49.8	0.01	HDPE
ZONE 235-4058	MH-5387	MH-5388	571.24	570.34	569.71	569.32	38.9	217	1.15	100	4.476	1.0039	1.1	1.32	0.8	36.5	0.01	HDPE
ZONE 235-4954	MH-5389	MH-4109	587.46	587.72	586.51	586.77	38.9	150	0.46	152.266	1.2318	0.0762	0.8	0.8	0.8	19.9	0.011	HDPE
ZONE 235-1288	MH-5390	MH-4489	590.45	589.52	588.96	588.57	38.9	150	0.62	100	1.52	0.135	1.1	1.34	0.8	21.7	0.011	HDPE
ZONE 235-1513	MH-5391	MH-4672	588.42	588.31	587.47	587.36	38.9	150	0.32	347.776	0.8151	0.0624	0.8	0.8	0.8	17.1	0.011	HDPE
ZONE 235-5855	MH-4956	MH-1513	583.25	582.58	581.97	581.63	39	150	0.8	114.271	1.4219	0.3832	1	1.13	0.8	37.7	0.011	HDPE
ZONE 235-1416	MH-5393	MH-5394	589.66	588.87	588.31	587.92	39	150	0.74	100	1.52	0.2441	1	1.2	0.8	29.3	0.011	HDPE
ZONE 235-1839	MH-5395	MH-606	572.49	572.12	571.54	571.17	39	150	0.22	105.324	1.4811	0.0045	0.8	0.8	0.8	4.1	0.011	HDPE
ZONE 235-4059	MH-5388	MH-5396	570.34	569.45	568.82	568.43	39	217	1.2	100	4.476	1.1799	1	1.3	0.8	39.7	0.01	HDPE
ZONE 235-5761	MH-2361	MH-5397	572.62	571.81	571.22	570.83	39	175	1.07	100	2.5221	0.7358	1	1.22	0.8	41.4	0.01	HDPE
ZONE 235-4888	MH-5398	MH-5399	598.02	597.67	597.07	596.72	38.2	150	1.02	109.742	1.451	0.9206	0.8	0.8	0.8	60.3	0.011	HDPE
ZONE 235-4212	MH-5400	MH-4678	595.87	596.13	594.92	594.89	39.1	150	0.24	1,000.00	0.4807	0.0821	0.9	0.8	1.09	28.4	0.011	HDPE
ZONE 235-3956	MH-239	MH-4975	565.13	565.27	563.81	563.44	38.5	150	0.6	104.731	1.4853	0.1229	1.4	1.18	1.68	20.8	0.011	HDPE
ZONE 235-1291	MH-4268	MH-3944	588.86	588.68	586.95	586.9	39.1	271	0.6	892.312	2.7101	1.9131	1.6	1.64	1.5	58.6	0.01	HDPE
ZONE 235-4401	MH-80	MH-13	599.79	600.05	598.74	598.7	39.1	150	0.22	1,000.00	0.4807	0.0619	1	0.9	1.2	26	0.011	HDPE
ZONE 235-1295	MH-4672	MH-4183	588.31	588.1	585.72	585.68	39.2	271	0.6	990.892	2.5718	2.4691	2.2	2.32	2.15	71.3	0.01	HDPE
ZONE 235-1728	MH-3811	MH-5413	581.11	580.96	579.76	579.72	39.3	150	0.26	1,000.00	0.4807	0.1113	1.1	1.2	1.08	27.9	0.011	HDPE
ZONE 235-4720	MH-5414	MH-735	591.32	590.82	589.8	589.42	38.7	600	2.19	100	61.2834	17.1544	0.9	0.92	0.8	41.9	0.011	HDPE
ZONE 235-3905	MH-5417	MH-5418	579.45	578.55	578.08	577.6	47.8	150	0.29	100	1.52	0.0106	1	1.22	0.8	6.2	0.011	HDPE
ZONE 235-135	MH-5419	MH-3776	568.6	568.85	567.53	567.48	39.4	271	0.6	762.335	2.9321	1.4786	0.9	0.8	1.1	50.9	0.01	HDPE
ZONE 235-1817	MH-5422	MH-5423	571.13	571.28	570.18	570.14	39.5	150	0.14	1,000.00	0.4807	0.012	0.9	0.8	0.98	10.9	0.011	HDPE
ZONE 235-4646	MH-5424	MH-5425	606.6	605.96	605.4	605.01	39.5	150	0.43	100	1.52	0.0399	0.9	1.04	0.8	11.8	0.011	HDPE
ZONE 235-4870	MH-688	MH-5426	598.17	598.76	596.56	596.6	39.5	150	0.26	1,000.00	0.4807	0.1107	1.7	1.46	2.01	31.9	0.011	HDPE
ZONE 235-3904	MH-5427	MH-186	579.32	578.33	577.77	577.38	39.5	150	0.27	100	1.52	0.008	1.1	1.4	0.8	5.4	0.011	HDPE
ZONE 235-4512	MH-5429	MH-5366	611	610.18	609.63	609.23	39.6	150	0.67	100	1.52	0.1695	1	1.22	0.8	24.3	0.011	HDPE
ZONE 235-107	MH-5431	MH-5432	581.73	580.85	580.3	579.9	39.6	150	1.01	100	1.52	0.7373	1	1.28	0.8	52.6	0.011	HDPE
ZONE 235-1583	MH-3943	MH-3179	586.17	585.68	584.8	584.62	39.7	150	0.6	217.08	1.0317	0.3077	1.1	1.22	0.91	37.1	0.011	HDPE
ZONE 235-4651	MH-5433	MH-5434	602.47	602.06	601.51	601.11	39.7	150	1.09	100	1.52	1.0459	0.8	0.81	0.8	64	0.011	HDPE
ZONE 235-4986	MH-5435	MH-5073	584.82	584.34	583.79	583.39	39.7	150	0.99	100	1.52	0.6826	0.8	0.88	0.8	61.1	0.011	HDPE
ZONE 235-5857	MH-5141	MH-5253	588.45	587.28	586.73	586.33	39.8	150	0.43	100	1.52	0.0371	1.2	1.57	0.8	11.4	0.011	HDPE
ZONE 235-1305	MH-5441	MH-5442	587.39	587.32	586.44	586.37	39.8	150	0.15	580.679	0.6308	0.0095	0.8	0.8	0.8	10.5	0.011	HDPE
ZONE 235-5944	MH-3255	MH-4777	560.92	560.2	559.65	559.25	39.8	150	0.88	100	1.52	0.4469	1	1.12	0.8	40.1	0.011	HDPE
ZONE 235-1384	MH-5444	MH-5445	590.9	590.99	589.95	589.91	39.8	150	0.19	1,000.00	0.4807	0.0347	0.9	0.8	0.93	14.9	0.011	HDPE
ZONE 235-1539	MH-5449	MH-5167	585.29	585.68	584.34	584.3	39.9	150	0.15	1,000.00	0.4807	0.0164	1	0.8	1.23	15.2	0.011	HDPE
ZONE 235-1400	MH-5450	MH-1589	592.68	592.56	591.73	591.48	39.9	150	0.37	161.865	1.1947	0.0391	0.9	0.8	0.93	14.1	0.011	HDPE
ZONE 235-4270	MH-16	MH-3	592.15	592.62	591.2	591.61	40.5	150	0.8	100	1.52	0.3266	0.8	0.8	0.86	34.1	0.011	HDPE
ZONE 235-1306	MH-5442	MH-3886	587.32	587.22	586.37	586.27	39.9	150	0.24	391.264	0.7684	0.0265	0.8	0.8	0.8	13.6	0.011	HDPE
ZONE 235-6414	MH-5022	MH-4064	563.98	564	562.33	562.29	39.6	271	0.6	991.392	2.5712	2.4747	1.4	1.38	1.44	59.6	0.01	HDPE
ZONE 235-4468	MH-2789	MH-1212	598.93	598.9	597.98	597.73	40	150	0.41	161.685	1.1954	0.0563	0.9	0.8	1.02	25.1	0.011	HDPE
ZONE 235-4196	MH-5297	MH-5458	597.88	598.45	596.93	597.33	40	150	0.44	100	1.52	0.0428	0.9	0.8	0.97	12.3	0.011	HDPE
ZONE 235-129	MH-5246	MH-5459	574.22	573.09	572.54	572.14	40	150	1.12	100	1.672	0.8543	1.2	1.53	0.8	55.6	0.01	HDPE
ZONE 235-1527	MH-5464	MH-3801	589.47	589.11	588.52	588.15	40.1	150	0.38	107.272	1.4676	0.0268	0.8	0.8	0.8	9.8	0.011	HDPE
ZONE 235-1570	MH-5465	MH-1899	584.67	584.21	583.66	583.26	40.1	150	0.29	100	1.52	0.0108	0.8	0.86	0.8	6.2	0.011	HDPE
ZONE 235-40	MH-3660	MH-5466	585.04	584.27	583.72	583.32	40.1	150	0.75	100	1.52	0.2515	1	1.16	0.8	29.8	0.011	HDPE
ZONE 235-1339	MH-5338	MH-4094	593.54	593.72	592.47	592.43	40.1	150	0.23	1,000.00	0.4807	0.0746	1	0.91	1.14	27.8	0.011	HDPE
ZONE 235-5996	MH-5469	MH-3161	582.42	581.62	580.98	580.67	30.1	150	0.55	100	1.52	0.0863	1	1.29	0.8	17.4	0.011	HDPE
ZONE 235-1391	MH-5470	MH-5133	591.17	590.24	589.7	589.29	40.2	150	0.34	100	1.52	0.0174	1.1	1.32	0.8	7.9	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3812	MH-176	MH-96	581.57	581.05	580.24	580.1	13.5	150	0.4	100	1.52	0.0297	1	1.18	0.8	11.7	0.011	HDPE
ZONE 235-5839	MH-5471	MH-1512	582.76	582.6	581.46	581.4	40.2	400	0.75	628.361	8.292	3.6337	0.8	0.9	0.8	41.9	0.011	HDPE
ZONE 235-1802	MH-5475	MH-3064	572.97	572.43	571.88	571.48	40.2	150	0.71	100	1.52	0.2136	0.9	0.94	0.8	30.5	0.011	HDPE
ZONE 235-1602	MH-5477	MH-3833	581.78	582.28	580.83	580.59	40.3	150	0.28	163.141	1.1901	0.0163	1.2	0.8	1.54	10.5	0.011	HDPE
ZONE 235-4917	MH-1181	MH-4995	590.81	591.59	589.86	590.05	19.1	150	0.36	100	1.52	0.0211	1.1	0.8	1.39	10.6	0.011	HDPE
ZONE 235-1469	MH-4333	MH-5478	583.74	583.01	581.55	581.51	40.3	400	0.62	1,000.00	6.573	3.2648	1.4	1.79	1.1	50.1	0.011	HDPE
ZONE 235-6701	MH-5479	MH-2108	579.59	578.89	577.7	577.65	40.3	271	0.6	898.787	2.7004	1.9394	1.3	1.62	0.97	51.4	0.01	HDPE
ZONE 235-1756	MH-5481	MH-5482	580.95	580.81	580	579.86	65.8	150	0.26	470.624	0.7007	0.0456	0.8	0.8	0.8	17.5	0.011	HDPE
ZONE 235-1610	MH-5214	MH-4594	584.35	583.78	581.09	580.88	40.3	150	0.6	191.835	1.0975	0.2607	2.9	3.1	2.74	33.6	0.011	HDPE
ZONE 235-1547	MH-4730	MH-5190	583.88	583.71	582.47	582.18	40.3	150	0.6	139.346	1.2877	0.1768	1.3	1.26	1.38	28.3	0.011	HDPE
ZONE 235-6643	MH-5483	MH-5484	587.04	586.84	585.84	585.49	40.3	400	1.82	114.73	19.4056	9.7801	0.9	0.8	0.95	68.7	0.011	HDPE
ZONE 235-3676	MH-4986	MH-5485	578.84	578.71	576.89	576.93	40.3	150	0.22	1,000.00	0.4807	0.0669	1.7	1.8	1.63	26.5	0.011	HDPE
ZONE 235-4608	MH-5487	MH-3611	592.39	593.11	591.36	591.47	40.4	150	0.6	356.7	0.8853	0.474	1.2	0.88	1.48	48.2	0.01	HDPE
ZONE 235-3900	MH-5492	MH-4775	575.63	575.97	574.68	574.64	40.3	150	0.24	1,000.00	0.4807	0.0781	1	0.8	1.18	30	0.011	HDPE
ZONE 235-1265	MH-5493	MH-5494	593.92	593.97	592.97	592.86	40.5	150	0.6	353.33	0.8895	0.4669	0.9	0.8	0.96	47.7	0.01	HDPE
ZONE 235-1758	MH-5499	MH-5500	581.15	580.93	580.2	579.98	66.1	150	0.26	297.465	0.8813	0.026	0.8	0.8	0.8	14.4	0.011	HDPE
ZONE 235-1693	MH-5501	MH-4375	585.51	585.24	584.56	584.29	40.6	150	0.43	145.782	1.2589	0.0577	0.8	0.8	0.8	16	0.011	HDPE
ZONE 235-6542	MH-5505	MH-5506	574.26	573.42	572.88	572.47	40.6	150	0.65	100	1.52	0.1563	1	1.23	0.8	23.4	0.011	HDPE
ZONE 235-3687	MH-1842	MH-4148	578.44	578.59	575.19	574.99	40.7	150	0.6	194.16	1.0909	0.266	3.3	3.09	3.46	34.2	0.011	HDPE
ZONE 235-3906	MH-5511	MH-165	579.52	578.77	578.22	577.82	40.7	150	0.28	100	1.52	0.0094	1	1.14	0.8	5.9	0.011	HDPE
ZONE 235-4595	MH-5484	MH-5512	586.84	588.02	585.64	586.05	40.7	400	1.61	100	20.7858	5.0565	1.2	0.8	1.57	38.1	0.011	HDPE
ZONE 235-6713	MH-4118	MH-5515	570.19	570	567.6	567.56	40.7	1,000.00	1.3	1,000.00	75.6728	72.0903	1.5	1.59	1.44	66.4	0.011	HDPE
ZONE 235-6568	MH-5516	MH-5517	565.89	565.49	564.94	564.54	40.8	150	0.8	102.164	1.5038	0.333	0.8	0.8	0.8	41.6	0.011	HDPE
ZONE 235-3925	MH-5520	MH-4472	579.34	579.92	576.61	576.59	20.1	150	0.25	1,000.00	0.4807	0.1009	2.9	2.58	3.18	40.4	0.011	HDPE
ZONE 235-1422	MH-5523	MH-2719	593.34	592.94	592.39	591.99	40.8	150	0.37	101.39	1.5096	0.0233	0.8	0.8	0.8	11.9	0.011	HDPE
ZONE 235-4916	MH-750	MH-793	589.88	590.71	588.78	588.81	23.3	150	0.25	1,000.00	0.4807	0.0969	1.3	0.95	1.75	26.3	0.011	HDPE
ZONE 235-1869	MH-4247	MH-709	565.27	565.64	564.3	564.63	39.6	175	1.07	117.495	2.3268	0.9256	0.8	0.8	0.84	55.3	0.01	HDPE
ZONE 235-1537	MH-4960	MH-2971	585.12	585.47	583.9	583.86	40.9	150	0.23	1,000.00	0.4807	0.0744	1.3	1.07	1.46	27.2	0.011	HDPE
ZONE 235-5089	MH-5528	MH-4576	568.28	567.8	567.26	566.85	41	150	0.81	100	1.52	0.3335	0.8	0.88	0.8	34.5	0.011	HDPE
ZONE 235-4717	MH-5529	MH-5530	592.34	591.65	590.65	590.25	41	600	2.17	100	61.2834	16.7295	0.9	1.08	0.8	47.8	0.011	HDPE
ZONE 235-4653	MH-5534	MH-5535	600.04	600.5	599.02	598.71	41.1	217	1.1	130.21	3.9226	1.2127	1.2	0.8	1.58	46.4	0.01	HDPE
ZONE 235-4887	MH-5536	MH-5398	598.24	598.02	597.29	597.07	41.1	150	0.83	185.721	1.1154	0.8843	0.8	0.8	0.8	64.9	0.011	HDPE
ZONE 235-1739	MH-4622	MH-1142	581.52	581.32	580.57	580.37	41.1	150	0.34	210.48	1.0477	0.042	0.8	0.8	0.8	17.6	0.011	HDPE
ZONE 235-3706	MH-5541	MH-5542	577.14	577.63	576.19	576.6	41.2	150	0.24	100	1.52	0.0055	0.8	0.8	0.88	8.5	0.011	HDPE
ZONE 235-4414	MH-5543	MH-1524	596.8	596.22	595.61	595.2	41.2	217	1.26	100	4.476	1.3855	0.9	0.97	0.8	43.2	0.01	HDPE
ZONE 235-4869	MH-5544	MH-5545	600.94	600.08	599.09	599.13	41.2	150	0.19	1,000.00	0.4807	0.0359	1.2	1.7	0.8	17	0.011	HDPE
ZONE 235-3619	MH-567	MH-5546	578.67	577.6	576.6	576.65	45.5	150	0.26	1,000.00	0.4807	0.1077	1.4	1.92	0.8	40.9	0.011	HDPE
ZONE 235-4137	MH-5033	MH-5549	565.85	565.12	562.88	562.8	41.3	217	0.6	522.61	1.958	0.8416	2.4	2.75	2.1	46	0.01	HDPE
ZONE 235-127	MH-5550	MH-5245	576.61	575.31	574.68	574.36	41.3	150	0.82	126.205	1.353	0.4622	1.3	1.77	0.8	42.1	0.011	HDPE
ZONE 235-3679	MH-2032	MH-5558	578.74	577.99	577	577.04	41.5	150	0.14	1,000.00	0.4807	0.0126	1.2	1.59	0.8	12.6	0.011	HDPE
ZONE 235-3899	MH-1668	MH-1952	575.23	575.7	573.97	573.73	41.5	150	0.6	167.193	1.1755	0.219	1.5	1.11	1.83	29.5	0.011	HDPE
ZONE 235-1682	MH-4654	MH-5560	583.42	583.05	582.47	582.1	41.6	150	0.35	113.062	1.4295	0.0225	0.8	0.8	0.8	9.1	0.011	HDPE
ZONE 235-1778	MH-5562	MH-5563	572.43	572.56	571.48	571.44	41.9	150	0.24	1,000.00	0.4807	0.0843	0.9	0.8	0.97	25.1	0.011	HDPE
ZONE 235-1456	MH-5565	MH-5566	589.86	591.04	588.91	588.86	41.7	150	0.25	1,000.00	0.4807	0.0897	1.4	0.8	2.03	30.3	0.011	HDPE
ZONE 235-4054	MH-3682	MH-5569	567.7	566.87	566.34	565.92	41.7	150	0.65	100	1.52	0.1516	1	1.21	0.8	31	0.011	HDPE
ZONE 235-6510	MH-3787	MH-5570	581.4	581	580.45	580.05	41.7	150	0.52	103.16	1.4966	0.0743	0.8	0.8	0.8	18.4	0.011	HDPE
ZONE 235-1857	MH-5571	MH-5572	567.6	567.4	565.5	565.45	41.8	400	0.63	1,000.00	7.2303	2.7686	1.6	1.71	1.54	42.1	0.01	HDPE
ZONE 235-3778	MH-403	MH-5577	583.05	583.83	582.1	582.51	41.6	150	0.25	100	1.52	0.007	1	0.8	1.17	5.1	0.011	HDPE
ZONE 235-6524	MH-5578	MH-5579	579.96	579.7	578.76	578.37	41.9	400	1.51	107.711	20.0279	4.4453	0.9	0.8	0.93	40.3	0.011	HDPE
ZONE 235-6406	MH-5583	MH-5584	567.03	566.76	565.75	565.5	42	150	0.6	166.48	1.1781	0.218	1.1	1.12	1.11	34.2	0.011	HDPE
ZONE 235-1287	MH-4929	MH-5390	591.52	590.45	589.92	589.5	42.1	150	0.57	100	1.52	0.1015	1.1	1.45	0.8	18.8	0.011	HDPE
ZONE 235-4743	MH-5586	MH-5587	593.38	592.91	592.38	591.96	42.1	150	0.63	100	1.52	0.1424	0.8	0.85	0.8	22.3	0.011	HDPE
ZONE 235-3603	MH-5589	MH-5322	576.33	577.66	575.38	575.34	42.1	150	0.15	1,000.00	0.4807	0.0161	1.5	0.8	2.17	17.4	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3891	MH-5593	MH-5594	579.4	579.89	578.45	578.33	42.2	150	0.23	367.588	0.7928	0.0213	1.1	0.8	1.41	14.1	0.011	HDPE
ZONE 235-1777	MH-3740	MH-5562	573.07	572.43	571.9	571.48	42.2	150	0.45	100	1.52	0.0465	0.9	1.03	0.8	20.8	0.011	HDPE
ZONE 235-1782	MH-5596	MH-301	572.18	572.04	570.54	570.37	21.1	150	0.6	125.16	1.3587	0.1551	1.5	1.49	1.51	25.5	0.011	HDPE
ZONE 235-6567	MH-5601	MH-5516	566.7	565.89	565.37	564.94	42.3	150	0.76	100	1.52	0.2659	1	1.18	0.8	35.3	0.011	HDPE
ZONE 235-5159	MH-5604	MH-5018	566.1	566.25	565.15	565.11	42.3	150	0.23	1,000.00	0.4807	0.073	0.9	0.8	0.99	25	0.011	HDPE
ZONE 235-4762	MH-1037	MH-721	614.08	614.76	613.13	613.43	30.1	150	0.43	100	1.52	0.0392	1	0.8	1.17	14.4	0.011	HDPE
ZONE 235-4735	MH-5605	MH-5606	594.44	594.82	593.49	593.45	42.3	150	0.19	1,000.00	0.4807	0.0356	1	0.8	1.22	22.7	0.011	HDPE
ZONE 235-1352	MH-5257	MH-4406	592.97	593.16	591.84	591.88	42.3	150	0.2	1,000.00	0.4807	0.0481	1.1	0.98	1.13	24.7	0.011	HDPE
ZONE 235-1457	MH-5566	MH-2167	591.04	589.94	588.86	588.82	42.4	150	0.26	1,000.00	0.4807	0.107	1.5	2.03	0.97	26.3	0.011	HDPE
ZONE 235-6539	MH-5612	MH-5613	574.41	575.27	573.46	573.88	42.4	150	0.49	100	1.52	0.0579	1	0.8	1.24	14.2	0.011	HDPE
ZONE 235-3999	MH-5614	MH-327	564.8	564.33	562.67	562.55	42.9	150	0.6	358.779	0.8827	0.4784	1.8	1.98	1.63	48.4	0.01	HDPE
ZONE 235-6634	MH-4569	MH-15	592.86	592.15	591.33	591.2	39.5	150	0.29	306.058	0.8689	0.039	1.1	1.38	0.8	13.4	0.011	HDPE
ZONE 235-1390	MH-3790	MH-4619	587.55	586.84	586.31	585.89	42.5	150	0.74	100	1.52	0.2409	0.9	1.09	0.8	29.1	0.011	HDPE
ZONE 235-1343	MH-5617	MH-5618	594.36	594.38	593.41	593.36	42.5	150	0.16	1,000.00	0.4807	0.0205	0.8	0.8	0.87	16.1	0.011	HDPE
ZONE 235-6680	MH-5619	MH-1841	577.71	578.31	575.5	575.25	42.5	150	0.6	169.403	1.1679	0.2223	2.5	2.07	2.91	31.6	0.011	HDPE
ZONE 235-4742	MH-5624	MH-5625	594.13	593.66	593.14	592.71	42.6	150	0.53	100	1.52	0.0774	0.8	0.84	0.8	16.4	0.011	HDPE
ZONE 235-1688	MH-5626	MH-3728	584.49	584.11	583.54	583.16	42.6	150	0.38	111.168	1.4416	0.0289	0.8	0.8	0.8	16.1	0.011	HDPE
ZONE 235-3698	MH-5628	MH-4149	578.19	578.74	577.24	577.19	42.7	150	0.19	1,000.00	0.4807	0.0344	1.1	0.8	1.4	14.8	0.011	HDPE
ZONE 235-4763	MH-1078	MH-5629	614.79	615.01	613.84	614.03	19	150	0.27	100	1.52	0.0078	0.8	0.8	0.83	8.8	0.011	HDPE
ZONE 235-4596	MH-5512	MH-5310	588.02	589.1	586.82	587.24	42.7	400	1.6	100	20.7858	5.0185	1.1	0.8	1.46	38	0.011	HDPE
ZONE 235-3681	MH-5633	MH-5634	579.43	580.08	578.48	578.44	42.8	150	0.15	1,000.00	0.4807	0.0185	1.1	0.8	1.5	16.2	0.011	HDPE
ZONE 235-1796	MH-5638	MH-169	574.47	573.29	572.77	572.34	42.8	150	0.33	100	1.52	0.0157	1.2	1.55	0.8	11.4	0.011	HDPE
ZONE 235-1542	MH-5640	MH-4562	584.34	583.76	583.24	582.81	42.9	150	0.37	100	1.52	0.0231	0.9	0.94	0.8	15	0.011	HDPE
ZONE 235-105	MH-5355	MH-5642	585.9	583.7	583.18	582.75	42.9	150	0.89	100	1.52	0.474	1.7	2.57	0.8	41.4	0.011	HDPE
ZONE 235-6420	MH-4440	MH-5643	563.59	563.88	561.59	561.54	42.9	271	0.6	896.066	2.7045	1.9292	1.9	1.73	2.06	64	0.01	HDPE
ZONE 235-4873	MH-5645	MH-5646	597.66	598.21	596.71	597.14	42.9	150	0.4	100	1.52	0.0303	0.9	0.8	0.92	17.7	0.011	HDPE
ZONE 235-1350	MH-4047	MH-5256	592.51	592.89	591.56	591.8	42.9	150	0.48	180.54	1.1313	0.1117	0.9	0.8	0.94	22.3	0.011	HDPE
ZONE 235-5028	MH-5351	MH-5648	580.76	579.9	577.78	577.51	42	175	0.88	156.301	2.0174	0.6557	2.5	2.81	2.22	49.7	0.01	HDPE
ZONE 235-1437	MH-5649	MH-5650	592.03	591.42	590.9	590.47	43	150	0.41	100	1.52	0.0327	0.9	0.98	0.8	10.7	0.011	HDPE
ZONE 235-4741	MH-5651	MH-5624	594.85	594.13	593.61	593.18	43	150	0.42	100	1.52	0.0345	0.9	1.09	0.8	11	0.011	HDPE
ZONE 235-1429	MH-5652	MH-5653	590.67	589.43	588.91	588.48	43	150	0.75	100	1.52	0.2552	1.2	1.61	0.8	30	0.011	HDPE
ZONE 235-106	MH-5642	MH-5431	583.7	581.73	581.21	580.78	43	150	0.96	100	1.52	0.6233	1.6	2.34	0.8	48	0.011	HDPE
ZONE 235-1418	MH-5656	MH-3547	593.48	593.14	592.47	592.05	43.1	150	0.6	101.928	1.5056	0.12	0.9	0.86	0.94	22.8	0.011	HDPE
ZONE 235-115	MH-5657	MH-1999	571.37	570.57	570.03	569.6	43.1	175	1.36	100	2.5221	1.9483	1	1.17	0.8	70.7	0.01	HDPE
ZONE 235-1820	MH-956	MH-2856	571.69	572.05	570.11	570.21	23.3	150	0.6	232.019	0.9979	0.3356	1.6	1.42	1.68	39.6	0.011	HDPE
ZONE 235-3943	MH-656	MH-549	579.35	579.94	576.42	576.48	19.2	150	0.6	354.868	0.8876	0.4703	3	2.77	3.31	51.5	0.01	HDPE
ZONE 235-5799	MH-5662	MH-5663	579.33	579.42	577.54	577.49	43.2	150	0.23	1,000.00	0.4807	0.0703	1.7	1.64	1.78	23.7	0.011	HDPE
ZONE 235-3783	MH-4456	MH-4197	582.88	581.95	581.43	581	43.2	150	0.31	100	1.52	0.0133	1	1.3	0.8	10	0.011	HDPE
ZONE 235-5791	MH-5671	MH-4945	574.04	574.14	573.09	573.05	43.3	150	0.26	1,000.00	0.4807	0.109	0.9	0.8	0.94	26.5	0.011	HDPE
ZONE 235-4528	MH-5673	MH-5674	607.51	607.46	606.5	606.39	43.3	175	0.6	390.194	1.2768	0.543	0.9	0.83	0.9	46	0.01	HDPE
ZONE 235-4340	MH-225	MH-5675	601.59	602.48	600.64	601.18	54.3	150	0.36	100	1.52	0.0212	1	0.8	1.15	8.7	0.011	HDPE
ZONE 235-5800	MH-5663	MH-5676	579.42	579.46	577.49	577.06	43.5	150	0.6	100.053	1.5196	0.1168	2	1.78	2.25	33.4	0.011	HDPE
ZONE 235-1858	MH-5572	MH-5677	567.4	567.02	565.45	565.41	43.5	400	0.64	1,000.00	7.2303	2.8349	1.4	1.54	1.21	37.1	0.01	HDPE
ZONE 235-5062	MH-5680	MH-962	567.39	567.07	566.44	566.12	45.4	150	0.45	144.09	1.2663	0.0713	0.8	0.8	0.8	16.5	0.011	HDPE
ZONE 235-1962	MH-3445	MH-3209	588.23	588.72	587.28	587.72	43.6	150	0.35	100	1.52	0.0192	0.8	0.8	0.85	13.1	0.011	HDPE
ZONE 235-1856	MH-5687	MH-5571	567.24	567.6	565.67	565.62	43.6	271	0.6	964.084	2.6073	2.2483	1.5	1.3	1.71	56.5	0.01	HDPE
ZONE 235-4974	MH-3465	MH-1728	581	581	577.4	577.27	44	150	0.6	356.263	0.8858	0.4732	3.5	3.45	3.58	48.1	0.01	HDPE
ZONE 235-6651	MH-5691	MH-5692	585.02	584.27	583.47	583.2	43.7	271	1.25	165.009	5.7293	3.7443	1	1.28	0.8	59.6	0.011	HDPE
ZONE 235-3611	MH-5693	MH-3364	578.93	579.23	577.92	577.7	43.8	150	0.6	195.516	1.0871	0.2682	1.1	0.86	1.39	34.4	0.011	HDPE
ZONE 235-5091	MH-4577	MH-5319	567.47	566.91	566.4	565.96	43.8	150	0.93	100	1.52	0.5352	0.9	0.92	0.8	44.2	0.011	HDPE
ZONE 235-4705	MH-5695	MH-5696	596.82	596.76	594.15	594.19	43.9	600	0.86	1,000.00	19.3795	12.7328	2	2.08	1.97	55.1	0.011	HDPE
ZONE 235-3962	MH-5699	MH-239	564.8	565.13	563.85	563.81	40	150	0.2	1,000.00	0.4807	0.0453	1	0.8	1.18	21.5	0.011	HDPE
ZONE 235-5008	MH-5701	MH-5702	585.92	586.98	582.35	582.25	43.6	175	0.6	412.928	1.2412	0.5901	4	3.4	4.56	45.8	0.01	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1449	MH-5653	MH-5703	589.43	589	587.89	587.83	44	217	0.6	649.029	1.757	1.1799	1.1	1.32	0.95	59.8	0.01	HDPE
ZONE 235-3801	MH-872	MH-754	580.92	580.36	579.76	579.41	40.7	150	0.69	116.068	1.4109	0.2273	0.9	1	0.8	31.1	0.011	HDPE
ZONE 235-5165	MH-4878	MH-5024	562.94	561.76	561.25	560.81	44	150	0.74	100	1.52	0.2372	1.2	1.55	0.8	28.9	0.011	HDPE
ZONE 235-3885	MH-5028	MH-998	577.57	576.91	575.74	575.42	44.1	150	0.6	138.453	1.2918	0.1756	1.5	1.67	1.33	25.8	0.011	HDPE
ZONE 235-110	MH-1136	MH-5708	578.56	576.38	575.8	575.41	39.8	175	1.32	100	2.5221	1.6901	1.7	2.58	0.8	65.2	0.01	HDPE
ZONE 235-1729	MH-5413	MH-4985	580.96	580.67	579.72	579.33	44.1	150	0.6	112.087	1.4357	0.1349	1.1	1.08	1.19	24.8	0.011	HDPE
ZONE 235-4895	MH-5709	MH-5710	595.03	595.4	593.8	593.9	44.1	400	0.84	466.105	10.5905	2.8423	1	0.83	1.1	34.1	0.01	HDPE
ZONE 235-3916	MH-4285	MH-4841	578.27	578.41	577.09	577.46	44.2	150	0.6	120.587	1.3842	0.1472	0.9	1.03	0.8	25.1	0.011	HDPE
ZONE 235-4647	MH-5425	MH-5719	605.96	605.06	604.56	604.11	44.2	150	0.54	100	1.52	0.0834	1	1.25	0.8	17.1	0.011	HDPE
ZONE 235-6484	MH-5724	MH-3263	582.53	581.97	581.46	581.02	44.3	150	0.31	100	1.52	0.0137	0.9	0.92	0.8	8.7	0.011	HDPE
ZONE 235-1819	MH-5423	MH-955	571.28	571.67	570.14	570.02	44.3	150	0.23	357.461	0.804	0.0212	1.2	0.98	1.5	26.6	0.011	HDPE
ZONE 235-6512	MH-5728	MH-5729	580.6	579.02	578.51	578.07	44.4	150	1.24	100	1.672	1.3165	1.4	1.94	0.8	71	0.01	HDPE
ZONE 235-5017	MH-5731	MH-319	583.78	583.68	582.83	582.69	44.4	150	0.6	301.098	0.876	0.4898	0.8	0.8	0.84	49.2	0.011	HDPE
ZONE 235-1631	MH-2025	MH-5732	583.62	584.09	582.67	583.11	44.4	150	0.45	100	1.52	0.0454	0.8	0.8	0.82	12.6	0.011	HDPE
ZONE 235-6412	MH-5735	MH-5021	564.55	564.21	563.57	563.24	44.4	175	1.19	132.084	2.1945	1.7172	0.8	0.8	0.8	73.3	0.01	HDPE
ZONE 235-3923	MH-4958	MH-5736	578.2	578.24	576.75	576.71	44.4	150	0.23	1,000.00	0.4807	0.0722	1.3	1.3	1.38	27.3	0.011	HDPE
ZONE 235-3644	MH-5737	MH-5738	581.79	582.13	580.18	580.09	34.2	150	0.6	377.5	0.8606	0.5183	1.7	1.46	1.89	51.2	0.01	HDPE
ZONE 235-3986	MH-5741	MH-149	564.75	565.24	563.8	563.49	43.7	150	0.6	142.473	1.2735	0.1812	1.2	0.8	1.59	30.4	0.011	HDPE
ZONE 235-4626	MH-386	MH-407	589.07	587.74	587.23	586.79	44.5	150	0.84	100	1.52	0.3806	1.2	1.69	0.8	42	0.011	HDPE
ZONE 235-4627	MH-408	MH-5484	587.73	586.84	586.38	585.89	49.3	150	0.91	100	1.52	0.4999	1	1.2	0.8	42.6	0.011	HDPE
ZONE 235-3793	MH-292	MH-893	582.45	581.7	580.95	580.68	37.4	150	0.6	137.002	1.2986	0.1736	1.1	1.35	0.87	26.9	0.011	HDPE
ZONE 235-6543	MH-5506	MH-5193	573.42	572.56	572.05	571.61	44.7	150	0.7	100	1.52	0.2015	1	1.22	0.8	26.6	0.011	HDPE
ZONE 235-3640	MH-5177	MH-245	582.8	582.26	581.5	581.31	18.9	150	0.7	100	1.52	0.1997	1	1.16	0.8	29	0.011	HDPE
ZONE 235-1509	MH-5745	MH-2046	586.65	587.07	585.7	585.66	44.7	150	0.23	1,000.00	0.4807	0.0674	1	0.8	1.26	20.7	0.011	HDPE
ZONE 235-1849	MH-4549	MH-4027	568.25	567.78	567.3	566.83	49.1	150	0.6	104.011	1.4904	0.1261	0.8	0.8	0.8	21.1	0.011	HDPE
ZONE 235-6612	MH-5746	MH-5397	571.04	571.81	567.18	567.13	44.8	271	0.6	918.742	2.6709	2.0243	4	3.6	4.41	53	0.01	HDPE
ZONE 235-3709	MH-716	MH-5748	577.03	577.59	575.89	575.99	43.7	175	0.6	436.466	1.2072	0.6416	1.2	0.96	1.43	52.4	0.01	HDPE
ZONE 235-1427	MH-5103	MH-5749	592.49	591.9	591.21	590.87	44.8	150	0.6	129.739	1.3345	0.16	1	1.13	0.88	24.4	0.011	HDPE
ZONE 235-1755	MH-5287	MH-5750	579.39	579.29	578.24	578.19	44.8	150	0.25	1,000.00	0.4807	0.094	1	1.01	0.95	26.8	0.011	HDPE
ZONE 235-5077	MH-5751	MH-5752	558.93	559.67	557.92	557.84	44.9	217	0.6	612.41	1.8087	1.0695	1.2	0.8	1.61	56.8	0.01	HDPE
ZONE 235-6617	MH-4308	MH-4792	601.43	600.38	599.76	599.43	44.9	150	0.91	134.588	1.3102	0.7708	1.2	1.52	0.8	56.2	0.011	HDPE
ZONE 235-4559	MH-5753	MH-4053	594.65	595.6	593.7	593.35	45.3	150	0.6	129.311	1.3367	0.1591	1.4	0.8	2.1	27.1	0.011	HDPE
ZONE 235-5021	MH-5754	MH-555	581.5	581.25	580.55	580.28	45.6	150	0.43	168.45	1.1712	0.0718	0.8	0.8	0.82	21.8	0.011	HDPE
ZONE 235-4514	MH-5367	MH-5755	609.33	608.34	607.85	607.39	45	150	0.81	100	1.52	0.3273	1.1	1.34	0.8	34.1	0.011	HDPE
ZONE 235-1864	MH-614	MH-5758	565.91	566.24	564.96	565.29	43.5	150	0.49	133.505	1.3155	0.0813	0.8	0.8	0.8	17.4	0.011	HDPE
ZONE 235-1687	MH-5229	MH-5626	584.97	584.49	584	583.54	45	150	0.3	100	1.52	0.0124	0.8	0.83	0.8	8.8	0.011	HDPE
ZONE 235-3929	MH-2502	MH-5759	579.73	579.9	578.3	578.64	45	150	0.6	133.088	1.3176	0.1656	1.2	1.27	1.11	27.3	0.011	HDPE
ZONE 235-1460	MH-5337	MH-2166	589.16	589.85	587.68	587.35	45	150	0.6	136.709	1.3	0.1701	1.8	1.33	2.35	26.9	0.011	HDPE
ZONE 235-1842	MH-362	MH-5761	569.13	569.97	568.18	568.63	45	150	0.85	100	1.52	0.3884	1	0.8	1.2	42.7	0.011	HDPE
ZONE 235-1467	MH-3625	MH-4619	586.08	586.84	585	585.46	45.1	271	1.48	100	8.0956	2.6663	1	0.8	1.11	45.1	0.01	HDPE
ZONE 235-1417	MH-2990	MH-5656	593.93	593.48	592.52	592.47	45.2	150	0.24	1,000.00	0.4807	0.0794	1.1	1.26	0.86	24.7	0.011	HDPE
ZONE 235-4744	MH-5587	MH-5767	592.91	592.01	591.52	591.06	45.2	150	0.67	100	1.52	0.1755	1	1.25	0.8	29.5	0.011	HDPE
ZONE 235-1872	MH-709	MH-5768	565.64	565.91	564.66	564.96	44.4	150	0.48	146.299	1.2567	0.0873	0.8	0.84	0.8	31.5	0.011	HDPE
ZONE 235-1732	MH-5771	MH-1750	581.61	581.35	578.37	578.27	45.2	175	0.6	467.114	1.167	0.7143	3	3.07	2.9	57.3	0.01	HDPE
ZONE 235-3927	MH-4472	MH-394	579.92	579.93	577.93	578.18	45.8	150	0.6	187.35	1.1105	0.2533	1.7	1.83	1.6	32.3	0.011	HDPE
ZONE 235-4046	MH-5774	MH-4430	573.09	572.71	571.81	571.6	45.3	150	0.6	210.479	1.0477	0.2943	1	1.12	0.96	36.6	0.011	HDPE
ZONE 235-3608	MH-4278	MH-5777	577.23	575.84	575.13	574.82	45.4	217	1.03	149.667	3.6587	1.1367	1.3	1.89	0.8	50.4	0.01	HDPE
ZONE 235-5764	MH-4362	MH-5025	575.82	574.32	573.83	573.37	45.5	150	0.58	100	1.52	0.1019	1.3	1.84	0.8	18.8	0.011	HDPE
ZONE 235-6556	MH-5779	MH-5780	569.53	568.7	568.21	567.75	45.5	150	0.83	100	1.52	0.3621	1	1.17	0.8	36	0.011	HDPE
ZONE 235-1280	MH-5781	MH-4161	592.18	592.58	591.21	591.52	45.5	150	0.6	147.436	1.2518	0.1889	0.9	0.82	0.91	28.7	0.011	HDPE
ZONE 235-5026	MH-5785	MH-1084	579.43	579.29	578.42	578.27	53.8	217	0.82	374.665	2.3124	1.8376	0.8	0.8	0.8	61.3	0.01	HDPE
ZONE 235-1266	MH-5494	MH-5251	593.97	594.07	592.83	592.72	45.6	175	0.6	418.333	1.2331	0.6012	1.1	0.96	1.17	51.7	0.01	HDPE
ZONE 235-4311	MH-1744	MH-123	598.55	598.95	597.26	597.06	45.7	150	0.6	229.408	1.0036	0.3307	1.4	1.14	1.74	44.4	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1760	MH-5787	MH-5788	581.62	581.25	580.67	580.3	45.7	150	0.36	125.096	1.359	0.0282	0.8	0.8	0.8	14.1	0.011	HDPE
ZONE 235-6482	MH-5794	MH-1605	581.61	581.43	580.66	580.48	45.8	150	0.33	248.45	0.9643	0.0448	0.8	0.8	0.8	15.6	0.011	HDPE
ZONE 235-1428	MH-5749	MH-5652	591.9	590.67	590.18	589.72	45.9	150	0.71	100	1.52	0.2141	1.2	1.57	0.8	27.4	0.011	HDPE
ZONE 235-1867	MH-5797	MH-4247	565.55	565.27	564.6	564.32	45.9	150	0.45	166.535	1.1779	0.083	0.8	0.8	0.8	35	0.011	HDPE
ZONE 235-1599	MH-5798	MH-4253	581.07	581.59	580.12	580.07	46	150	0.18	1,000.00	0.4807	0.0298	1.1	0.8	1.37	25.1	0.011	HDPE
ZONE 235-5076	MH-5801	MH-5751	559.68	558.93	558.38	557.92	46.1	217	1.14	100	4.476	0.9821	0.9	1.08	0.8	47.7	0.01	HDPE
ZONE 235-4706	MH-5696	MH-5804	596.76	596.67	594.19	594.24	46.2	600	0.86	1,000.00	19.3795	12.6817	1.9	1.97	1.84	56.6	0.011	HDPE
ZONE 235-4524	MH-5806	MH-5807	607.83	608.67	606.88	607.16	28.2	150	0.88	100	1.52	0.4405	1.1	0.8	1.36	44.1	0.011	HDPE
ZONE 235-1466	MH-2210	MH-3625	585.26	586.08	583.88	583.92	46.3	400	0.63	1,000.00	7.2303	2.7746	1.4	0.99	1.75	36.5	0.01	HDPE
ZONE 235-1325	MH-4335	MH-5026	587.39	587.48	586.44	586.39	46.4	150	0.16	1,000.00	0.4807	0.0217	0.9	0.8	0.93	16	0.011	HDPE
ZONE 235-1394	MH-5808	MH-5809	590.42	589.31	588.82	588.36	46.4	150	0.33	100	1.52	0.0157	1.1	1.44	0.8	7.5	0.011	HDPE
ZONE 235-1692	MH-5810	MH-5501	585.91	585.51	584.96	584.56	46.4	150	0.42	116.941	1.4056	0.0427	0.8	0.8	0.8	14.2	0.011	HDPE
ZONE 235-3764	MH-23	MH-5814	581.05	581.48	580.1	580.53	45.1	150	0.29	104.806	1.4848	0.0107	0.8	0.8	0.8	6.3	0.011	HDPE
ZONE 235-5046	MH-5824	MH-839	587.76	587.39	586.69	586.44	24.6	150	1.16	100	1.672	0.9739	0.9	0.92	0.8	59.8	0.01	HDPE
ZONE 235-6574	MH-5825	MH-5826	566.84	567.34	565.85	566.39	55.9	150	0.6	103.545	1.4938	0.1216	0.8	0.84	0.8	20.7	0.011	HDPE
ZONE 235-1797	MH-5828	MH-340	574.54	573.21	572.73	572.26	46.7	150	0.39	100	1.52	0.0273	1.2	1.66	0.8	9.8	0.011	HDPE
ZONE 235-4765	MH-5830	MH-5789	614.46	614.07	613.49	613.12	37.3	150	0.32	100	1.52	0.0149	0.8	0.82	0.8	7.3	0.011	HDPE
ZONE 235-4498	MH-4479	MH-5832	603.77	603.41	602.82	602.46	46.8	150	0.69	131.462	1.3257	0.2681	0.8	0.8	0.8	35.9	0.011	HDPE
ZONE 235-6611	MH-4991	MH-5746	570.46	571.04	567.23	567.18	46.8	271	0.6	903.581	2.6932	1.9613	3.3	2.96	3.6	61.9	0.01	HDPE
ZONE 235-4704	MH-5834	MH-5695	596.49	596.82	594.1	594.15	46.9	600	0.86	1,000.00	19.3795	12.8014	1.9	1.79	2.08	47.7	0.011	HDPE
ZONE 235-6616	MH-4608	MH-4308	602.46	601.43	600.95	600.48	46.9	150	0.85	100	1.52	0.3872	1.1	1.36	0.8	37.2	0.011	HDPE
ZONE 235-4732	MH-5835	MH-5836	593.51	592.7	592.22	591.75	46.9	150	0.55	100	1.52	0.0894	1	1.14	0.8	17.6	0.011	HDPE
ZONE 235-42	MH-5837	MH-5838	583.47	582.84	582.36	581.89	46.9	150	0.85	100	1.52	0.4006	0.9	0.97	0.8	37.9	0.011	HDPE
ZONE 235-100	MH-5839	MH-5840	586.74	588.01	585.79	586.27	47.1	150	0.71	100	1.52	0.2105	1.2	0.8	1.59	27.2	0.011	HDPE
ZONE 235-4566	MH-5841	MH-1337	596.96	597.19	596.01	596.24	47.2	150	0.29	206.853	1.0569	0.0242	0.8	0.8	0.8	10.1	0.011	HDPE
ZONE 235-3595	MH-5842	MH-737	575.82	575.32	574.59	574.3	29.2	217	1.2	100	4.476	1.1817	0.9	1.01	0.8	50.9	0.01	HDPE
ZONE 235-1498	MH-5843	MH-4835	589.62	589.38	588.67	588.43	47.3	150	0.36	193.318	1.0932	0.0445	0.8	0.8	0.8	13.5	0.011	HDPE
ZONE 235-1771	MH-5845	MH-161	571.85	570.56	570.08	569.61	47.3	150	0.8	100	1.52	0.3261	1.2	1.62	0.8	39.1	0.011	HDPE
ZONE 235-3879	MH-5846	MH-401	577.02	576.02	575.54	575.07	46.5	150	0.36	100	1.52	0.0202	1.1	1.33	0.8	8.4	0.011	HDPE
ZONE 235-3910	MH-5849	MH-2359	579.44	578.17	577.69	577.22	47.4	150	0.3	100	1.52	0.0126	1.2	1.6	0.8	6.8	0.011	HDPE
ZONE 235-1816	MH-4510	MH-5851	571.37	571.35	570.35	570.4	47.5	150	0.14	1,000.00	0.4807	0.0137	0.8	0.87	0.8	14	0.011	HDPE
ZONE 235-4226	MH-5854	MH-337	595.44	595.8	594.49	594.44	47.5	150	0.26	1,000.00	0.4807	0.1063	1	0.8	1.2	32.1	0.011	HDPE
ZONE 235-1780	MH-5563	MH-539	572.56	571.98	571.44	570.97	47.3	150	0.6	102.023	1.5049	0.1201	0.9	0.97	0.86	22.8	0.011	HDPE
ZONE 235-4672	MH-2780	MH-5858	605.18	606.01	604.23	604.71	48.2	150	0.53	100	1.52	0.0785	1	0.8	1.16	16.5	0.011	HDPE
ZONE 235-1865	MH-5758	MH-5859	566.24	566.58	565.29	565.63	49.5	150	0.36	142.581	1.273	0.0334	0.8	0.8	0.8	14.8	0.011	HDPE
ZONE 235-5832	MH-1944	MH-1800	581.46	581.12	579.22	579.01	47.7	150	0.6	228.774	1.005	0.3295	2	2.09	1.96	39.5	0.011	HDPE
ZONE 235-3635	MH-5862	MH-2959	581.39	582.33	580.44	580.91	47.8	150	0.38	100	1.52	0.0263	1	0.8	1.27	9.7	0.011	HDPE
ZONE 235-4655	MH-638	MH-5863	600.62	600.32	599.29	599.37	47.8	150	0.25	564.545	0.6397	0.0449	1	1.19	0.8	30	0.011	HDPE
ZONE 235-6442	MH-5865	MH-1736	563.67	563.81	562.72	562.46	47.8	150	0.6	187.887	1.1089	0.2544	1	0.8	1.2	34.5	0.011	HDPE
ZONE 235-4520	MH-2184	MH-3035	605.81	605.28	603.42	603.83	48.9	150	0.6	119.845	1.3885	0.1461	1.8	2.24	1.3	25.3	0.011	HDPE
ZONE 235-4542	MH-5866	MH-5867	608.81	608.82	607.86	607.46	47.9	150	0.6	118.138	1.3985	0.1436	1	0.8	1.21	22.8	0.011	HDPE
ZONE 235-4988	MH-5074	MH-5871	583.91	583.49	582.96	582.54	86.9	150	0.86	203.67	1.1716	0.913	0.8	0.8	0.8	64.4	0.01	HDPE
ZONE 235-4254	MH-5873	MH-3647	590.23	590.85	588.98	589.03	48	400	0.67	1,000.00	6.573	4.6082	1.1	0.85	1.42	49.4	0.011	HDPE
ZONE 235-3693	MH-5874	MH-5875	577	577.5	576.05	576	48.1	150	0.19	1,000.00	0.4807	0.0347	1.1	0.8	1.35	21	0.011	HDPE
ZONE 235-1568	MH-3014	MH-5876	585.05	585.68	582.05	581.71	53.2	150	0.6	160.592	1.1995	0.2114	3.3	2.85	3.81	30.3	0.011	HDPE
ZONE 235-4914	MH-5878	MH-749	588.92	589.87	587.97	588.17	26	150	0.63	124.577	1.3619	0.1757	1.2	0.8	1.55	27.9	0.011	HDPE
ZONE 235-6540	MH-5613	MH-5118	575.27	576.33	574.32	574.8	48.2	150	0.38	100	1.52	0.0261	1.1	0.8	1.38	9.6	0.011	HDPE
ZONE 235-1406	MH-2169	MH-5126	588.04	587.57	587.09	586.62	48.3	150	0.44	103.442	1.4945	0.0447	0.8	0.8	0.8	15.4	0.011	HDPE
ZONE 235-4804	MH-5883	MH-5884	603.68	604	602.73	603.05	48.4	150	0.44	154.961	1.2211	0.0706	0.8	0.8	0.8	16.5	0.011	HDPE
ZONE 235-4563	MH-3663	MH-4683	595.78	595.69	594.83	594.74	47.3	150	0.29	526.204	0.6626	0.0743	0.8	0.8	0.8	24.8	0.011	HDPE
ZONE 235-3630	MH-5885	MH-287	583.49	582.43	581.95	581.48	47	150	0.71	100	1.52	0.2087	1.1	1.39	0.8	27.1	0.011	HDPE
ZONE 235-3946	MH-549	MH-5886	579.94	580.02	578.99	579.07	48.9	150	0.25	601.353	0.6198	0.0523	0.8	0.8	0.8	17	0.011	HDPE
ZONE 235-6706	MH-5887	MH-5888	574.33	573.68	572.97	572.48	48.5	400	1.87	100	20.7858	8.8735	0.9	0.96	0.8	51.4	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1311	MH-5890	MH-5891	587.44	587.35	586.49	586.4	48.6	150	0.14	511.612	0.672	0.0065	0.8	0.8	0.8	7.9	0.011	HDPE
ZONE 235-4412	MH-455	MH-5893	599.03	598.64	597.27	597.1	44.9	217	0.8	269.461	2.7267	1.0119	1.4	1.55	1.33	41.7	0.01	HDPE
ZONE 235-1781	MH-539	MH-5596	571.98	572.18	570.97	570.54	48.6	150	0.6	112.483	1.4332	0.1355	1.2	0.86	1.49	24.4	0.011	HDPE
ZONE 235-1497	MH-4835	MH-5290	589.38	589.94	588.12	588.07	48.6	150	0.25	1,000.00	0.4807	0.1035	1.4	1.1	1.71	27.4	0.011	HDPE
ZONE 235-3690	MH-5875	MH-5897	577.5	577.63	576	575.95	48.7	150	0.22	1,000.00	0.4807	0.0626	1.4	1.35	1.53	23.9	0.011	HDPE
ZONE 235-1571	MH-5898	MH-1810	584.25	583.92	583.3	582.97	48.7	150	0.33	146.662	1.2551	0.0247	0.8	0.8	0.8	9.7	0.011	HDPE
ZONE 235-4500	MH-760	MH-5900	602.97	601.77	600.77	600.82	48.2	150	0.2	1,000.00	0.4807	0.0477	1.4	2.04	0.8	38.9	0.011	HDPE
ZONE 235-1355	MH-5902	MH-2668	592.65	592.18	591.7	591.23	48.8	150	0.36	104.215	1.489	0.0215	0.8	0.8	0.8	11.8	0.011	HDPE
ZONE 235-4489	MH-5904	MH-4383	592.43	591.81	591.35	590.86	48.8	150	0.45	100	1.52	0.0436	0.9	0.93	0.8	12.4	0.011	HDPE
ZONE 235-3997	MH-432	MH-5614	565.43	564.8	562.75	562.67	24	150	0.6	271.992	0.9217	0.4215	2.3	2.53	1.98	49.3	0.011	HDPE
ZONE 235-3602	MH-5908	MH-5909	575.57	575.35	574.62	574.4	48.9	150	0.32	222.409	1.0192	0.0365	0.8	0.8	0.8	12.4	0.011	HDPE
ZONE 235-3968	MH-5910	MH-5022	564.07	563.98	562.55	562.42	49.9	175	0.6	402.774	1.2567	0.5695	1.4	1.35	1.38	50	0.01	HDPE
ZONE 235-3762	MH-4097	MH-5911	580.76	581.28	579.81	580.3	49.1	150	0.36	100	1.52	0.0208	0.8	0.8	0.83	8.6	0.011	HDPE
ZONE 235-4535	MH-460	MH-2702	605.88	606.79	604.93	605.42	49.1	150	0.44	100	1.52	0.0409	1	0.8	1.21	15.1	0.011	HDPE
ZONE 235-28	MH-620	MH-1804	579.65	578.9	577.26	577.21	43.2	271	0.6	806.146	2.8513	1.6133	1.8	2.12	1.42	51.5	0.01	HDPE
ZONE 235-4170	MH-5915	MH-103	587.99	588.3	587.04	586.99	54.2	150	0.2	1,000.00	0.4807	0.0464	1	0.8	1.16	18.6	0.011	HDPE
ZONE 235-4760	MH-5916	MH-471	613.02	614.03	612.07	612.57	50.1	150	0.77	100	1.52	0.2798	1.1	0.8	1.31	31.4	0.011	HDPE
ZONE 235-4903	MH-5918	MH-5919	595.62	596.01	594.65	594.47	79.3	175	0.6	450.748	1.188	0.6743	1.1	0.8	1.36	48.7	0.01	HDPE
ZONE 235-1435	MH-5920	MH-5921	591.89	591.21	590.75	590.26	49.3	150	0.37	100	1.52	0.0232	0.9	0.99	0.8	9	0.011	HDPE
ZONE 235-4893	MH-3374	MH-5923	592.99	594.03	591.79	592.28	49	400	1.51	100	22.8644	3.2441	1.1	0.8	1.36	29.7	0.01	HDPE
ZONE 235-1717	MH-1700	MH-1510	580.47	580.59	579.02	578.67	52.9	150	0.6	151.292	1.2358	0.1953	1.5	1.3	1.76	27.5	0.011	HDPE
ZONE 235-6582	MH-3430	MH-5924	565.76	566.17	564.81	565.22	49.4	150	0.41	121.072	1.3814	0.0416	0.8	0.8	0.8	12.3	0.011	HDPE
ZONE 235-1454	MH-4235	MH-3405	591.01	589.95	587.03	586.98	49.5	271	0.6	951.37	2.6247	2.1739	3.2	3.71	2.69	65.1	0.01	HDPE
ZONE 235-4064	MH-2941	MH-211	571.07	572.34	570.12	569.99	49.5	150	0.6	377.818	0.8602	0.5189	1.5	0.8	2.21	51.2	0.01	HDPE
ZONE 235-4667	MH-843	MH-5926	603.63	603.98	602.64	603.03	48.4	150	0.52	123.379	1.3685	0.0919	0.8	0.84	0.8	26.8	0.011	HDPE
ZONE 235-4180	MH-1659	MH-11	600.17	599.09	598.68	598.14	54	150	0.46	100	1.52	0.0482	1.1	1.35	0.8	16.2	0.011	HDPE
ZONE 235-1312	MH-5891	MH-5232	587.35	587.21	586.4	586.26	49.6	150	0.2	352.838	0.8092	0.0133	0.8	0.8	0.8	10.1	0.011	HDPE
ZONE 235-1327	MH-5027	MH-2747	587.59	587.71	586.36	586.31	49.6	150	0.22	1,000.00	0.4807	0.0576	1.2	1.08	1.26	33.4	0.011	HDPE
ZONE 235-3671	MH-5929	MH-289	580.09	580.73	579.14	579.09	49.7	150	0.14	1,000.00	0.4807	0.0146	1.1	0.8	1.49	19.3	0.011	HDPE
ZONE 235-1742	MH-5930	MH-2197	581.4	581.04	580.45	580.09	48.8	150	0.3	137.643	1.2956	0.0169	0.8	0.8	0.8	11.9	0.011	HDPE
ZONE 235-1844	MH-5761	MH-5931	569.97	570.92	569.02	569.52	49.7	150	0.81	100	1.52	0.3359	1	0.8	1.25	34.6	0.011	HDPE
ZONE 235-3930	MH-5759	MH-5368	579.9	580.07	578.64	579.12	49.7	150	0.6	103.11	1.4969	0.1212	1	1.11	0.8	24.2	0.011	HDPE
ZONE 235-8	MH-5937	MH-4178	584.61	584.17	583.66	583.22	49.8	150	0.51	113.212	1.4286	0.08	0.8	0.8	0.8	20.7	0.011	HDPE
ZONE 235-1365	MH-5939	MH-2158	591.61	591.98	589.69	589.88	25.5	150	0.6	136.492	1.3011	0.1729	1.9	1.77	1.95	27.3	0.011	HDPE
ZONE 235-4225	MH-5941	MH-94	595.07	595.47	594.12	594.09	35.5	150	0.19	1,000.00	0.4807	0.0358	1	0.8	1.23	23.8	0.011	HDPE
ZONE 235-5995	MH-5942	MH-5469	583.95	582.42	582.07	581.47	59.9	150	0.31	100	1.52	0.0138	1.3	1.73	0.8	7.1	0.011	HDPE
ZONE 235-3965	MH-3051	MH-1927	564.41	564.16	563.25	562.89	49.2	150	0.6	133.311	1.3165	0.1659	1.1	1	1.13	26.9	0.011	HDPE
ZONE 235-1851	MH-5943	MH-5944	568.83	569.99	567.88	567.4	50.1	150	0.6	103.174	1.4965	0.1213	1.6	0.8	2.45	25.3	0.011	HDPE
ZONE 235-3808	MH-5945	MH-992	582.17	581.49	581.04	580.54	49.8	150	0.31	100	1.52	0.0126	0.9	0.98	0.8	15.5	0.011	HDPE
ZONE 235-4685	MH-5946	MH-940	597.57	597.56	596.08	596.13	50.1	400	0.64	1,000.00	6.573	3.8992	1.1	1.1	1.03	44.9	0.011	HDPE
ZONE 235-3626	MH-4297	MH-5324	582.42	582.52	581.47	581.57	50.2	150	0.29	536.448	0.6563	0.0753	0.8	0.8	0.8	22.4	0.011	HDPE
ZONE 235-5826	MH-3298	MH-4788	581.82	581.58	580.1	579.78	50.2	150	0.6	152.796	1.2297	0.198	1.6	1.56	1.66	29.5	0.011	HDPE
ZONE 235-1420	MH-4416	MH-2989	593.94	594.05	592.58	592.53	50.3	150	0.21	1,000.00	0.4807	0.0486	1.3	1.2	1.36	22.4	0.011	HDPE
ZONE 235-1529	MH-3228	MH-5952	588.92	588.79	587.53	587.1	50.3	150	0.6	116.748	1.4068	0.1417	1.4	1.24	1.54	25.5	0.011	HDPE
ZONE 235-4363	MH-19	MH-5072	603.59	602.99	602.5	602.04	45.5	150	0.44	100	1.52	0.0426	0.9	0.94	0.8	12.2	0.011	HDPE
ZONE 235-4397	MH-5955	MH-335	600.62	600.32	599.67	599.19	50.8	150	0.3	105.552	1.4795	0.013	0.9	0.8	0.98	9.6	0.011	HDPE
ZONE 235-6705	MH-1953	MH-5887	575.38	574.33	573.47	572.97	50.8	400	1.85	101.982	20.5828	8.8242	1.2	1.51	0.96	57.7	0.011	HDPE
ZONE 235-1499	MH-5963	MH-5106	589.07	588.86	588.12	587.91	51	150	0.41	249.917	0.9615	0.1003	0.8	0.8	0.8	22.3	0.011	HDPE
ZONE 235-1950	MH-5964	MH-5965	589.26	588.89	588.31	587.89	51.1	150	0.35	121.529	1.3788	0.0241	0.8	0.8	0.85	12.7	0.011	HDPE
ZONE 235-1598	MH-4253	MH-6	581.59	581	580	579.93	46.2	217	0.6	607.673	1.8158	1.0565	1.1	1.37	0.86	48.1	0.01	HDPE
ZONE 235-1770	MH-5967	MH-161	572.23	570.56	570.12	569.61	51.2	150	0.46	100	1.52	0.0477	1.4	1.96	0.8	27.6	0.011	HDPE
ZONE 235-5762	MH-5968	MH-4361	578.37	576.72	576.29	575.77	51.3	150	0.43	100	1.52	0.0387	1.4	1.93	0.8	11.6	0.011	HDPE
ZONE 235-1515	MH-5952	MH-3945	588.79	588.58	587.1	586.73	51.3	150	0.6	138.439	1.2919	0.1755	1.6	1.54	1.7	25.8	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3938	MH-5970	MH-655	579.48	579.34	577.09	577.04	51.7	150	0.21	1,000.00	0.4807	0.0538	2.2	2.24	2.15	18.5	0.011	HDPE
ZONE 235-1691	MH-5049	MH-5810	586.41	585.91	585.46	584.96	51.4	150	0.38	103.579	1.4935	0.0266	0.8	0.8	0.8	11.7	0.011	HDPE
ZONE 235-6662	MH-5974	MH-5975	601.37	600.16	599.72	599.21	51.4	150	0.64	100	1.52	0.1477	1.1	1.49	0.8	22.7	0.011	HDPE
ZONE 235-3599	MH-2583	MH-5976	574.86	574.51	573.54	573.46	51.5	217	0.6	676.696	1.7207	1.2747	1	1.1	0.83	61.4	0.01	HDPE
ZONE 235-6670	MH-5978	MH-736	591.46	590.81	590.06	589.84	22.4	175	1.19	100	2.5221	1.0919	1	1.22	0.8	51.1	0.01	HDPE
ZONE 235-1683	MH-5560	MH-5979	583.05	582.47	582.04	581.52	51.6	150	0.43	100	1.52	0.0399	0.8	0.86	0.8	14.1	0.011	HDPE
ZONE 235-6572	MH-4115	MH-5983	564.53	564.01	563.57	563.06	51.7	150	1.04	100	1.52	0.8486	0.8	0.81	0.8	56.8	0.011	HDPE
ZONE 235-6697	MH-1801	MH-4803	581.06	580.68	578.97	578.76	51.7	150	0.6	242.441	0.9762	0.357	1.8	1.93	1.76	40	0.011	HDPE
ZONE 235-5798	MH-849	MH-5662	578.54	579.33	577.59	577.54	51.8	150	0.14	1,000.00	0.4807	0.0126	1.2	0.8	1.64	18.3	0.011	HDPE
ZONE 235-3875	MH-4855	MH-5987	578.8	579.15	575.3	575.68	52	150	0.6	136.008	1.3034	0.1692	3.3	3.35	3.32	27.7	0.011	HDPE
ZONE 235-4239	MH-2459	MH-15	591.53	592.15	590.58	590.53	53.1	150	0.1	1,000.00	0.4807	0.0042	1.1	0.8	1.47	21	0.011	HDPE
ZONE 235-3691	MH-5897	MH-5619	577.63	577.71	575.95	575.5	52.2	150	0.6	113.871	1.4244	0.1375	1.8	1.53	2.07	27	0.011	HDPE
ZONE 235-4731	MH-5989	MH-5835	594.17	593.51	593.08	592.56	52.2	150	0.45	100	1.52	0.0435	0.9	0.94	0.8	12.4	0.011	HDPE
ZONE 235-41	MH-5466	MH-5837	584.27	583.47	583.05	582.52	52.2	150	0.8	100	1.52	0.3152	0.9	1.07	0.8	33.5	0.011	HDPE
ZONE 235-4175	MH-897	MH-5992	602.62	601.95	600.94	601	52.3	150	0.17	862.487	0.5176	0.0204	1.2	1.54	0.8	13.1	0.011	HDPE
ZONE 235-112	MH-5708	MH-5995	576.38	574.29	573.84	573.31	52.4	175	1.33	100	2.5221	1.7384	1.6	2.37	0.8	66.2	0.01	HDPE
ZONE 235-5811	MH-5997	MH-4420	587.46	585.81	585.39	584.86	52.5	150	0.37	100	1.52	0.024	1.4	1.93	0.8	9.2	0.011	HDPE
ZONE 235-4375	MH-4316	MH-78	600.51	599.74	599.31	598.79	52.6	150	0.88	100	1.52	0.4382	0.9	1.05	0.8	39.7	0.011	HDPE
ZONE 235-1438	MH-5650	MH-4650	591.42	590.67	590.24	589.72	52.6	150	0.46	100	1.52	0.049	0.9	1.02	0.8	13.1	0.011	HDPE
ZONE 235-6627	MH-5297	MH-2732	597.88	597.33	596.66	596.13	52.7	400	1.43	100	22.8644	2.6455	0.8	0.83	0.8	26.7	0.01	HDPE
ZONE 235-1344	MH-5618	MH-4550	594.38	594.4	593.36	593.31	52.7	150	0.19	1,000.00	0.4807	0.0364	0.9	0.87	0.94	15.2	0.011	HDPE
ZONE 235-4530	MH-6003	MH-6004	606.7	605.64	605.22	604.69	52.9	150	0.4	100	1.52	0.0307	1.1	1.33	0.8	10.4	0.011	HDPE
ZONE 235-6424	MH-6006	MH-4407	565.59	564.34	563.92	563.39	53	150	0.57	100	1.52	0.0984	1.2	1.52	0.8	23.6	0.011	HDPE
ZONE 235-6686	MH-6009	MH-6010	580.77	580.23	576.45	576.4	53.6	800	1.06	1,000.00	41.7362	29.7186	3.3	3.51	3.03	50	0.011	HDPE
ZONE 235-4789	MH-2645	MH-569	603	603	601.94	601.99	53.5	150	0.24	1,000.00	0.4807	0.0884	0.9	0.91	0.86	25.5	0.011	HDPE
ZONE 235-1801	MH-5244	MH-5475	574.17	572.97	572.3	571.88	53.1	150	0.64	124.271	1.3635	0.195	1.3	1.71	0.94	29	0.011	HDPE
ZONE 235-6427	MH-6012	MH-4130	563.42	563.31	562.21	561.75	53.1	175	1.01	114.072	2.3614	0.6976	1.2	1.03	1.39	40.9	0.01	HDPE
ZONE 235-3984	MH-4851	MH-5741	565.72	564.75	564.33	563.8	53.1	150	0.62	100	1.52	0.1328	1	1.24	0.8	25.3	0.011	HDPE
ZONE 235-1388	MH-4484	MH-6013	589.77	588.79	588.37	587.84	53.1	150	0.66	100	1.52	0.1642	1	1.25	0.8	24	0.011	HDPE
ZONE 235-5819	MH-2753	MH-5057	581.44	580.93	580.49	579.98	53.3	150	0.31	105.866	1.4773	0.014	0.8	0.8	0.8	12.9	0.011	HDPE
ZONE 235-4057	MH-212	MH-5387	572.34	571.24	569.92	569.71	53.3	217	0.8	252.635	2.8161	0.8921	1.8	2.21	1.32	39.9	0.01	HDPE
ZONE 235-3660	MH-5134	MH-6018	581.04	580.69	578.32	578.04	52	150	0.6	191.528	1.0983	0.2624	2.5	2.57	2.49	35.3	0.011	HDPE
ZONE 235-1410	MH-6022	MH-4425	594.11	594.12	593.16	593.11	53.5	150	0.19	1,000.00	0.4807	0.0404	0.8	0.8	0.86	21.2	0.011	HDPE
ZONE 235-4998	MH-4040	MH-6025	586.13	585.3	581.56	580.97	60.2	217	1.12	100.364	4.4679	0.9254	4.2	4.35	4.12	49.4	0.01	HDPE
ZONE 235-1685	MH-6028	MH-6029	581.93	581.56	580.98	580.61	74.7	150	0.43	199.917	1.075	0.0881	0.8	0.8	0.8	19	0.011	HDPE
ZONE 235-6575	MH-5826	MH-5152	567.34	567.93	566.39	566.92	53.7	150	0.54	100	1.52	0.0848	0.8	0.8	0.86	20.4	0.011	HDPE
ZONE 235-1768	MH-6032	MH-399	570.92	572.01	569.97	569.95	23.5	150	0.17	1,000.00	0.4807	0.0254	1.4	0.8	1.91	17.9	0.011	HDPE
ZONE 235-6428	MH-6035	MH-6036	567.04	565.92	565.51	564.97	53.8	150	0.44	100	1.52	0.0426	1.1	1.38	0.8	12.3	0.011	HDPE
ZONE 235-3677	MH-5485	MH-2031	578.71	578.63	576.93	576.98	53.9	150	0.19	1,000.00	0.4807	0.0354	1.6	1.63	1.5	21.6	0.011	HDPE
ZONE 235-4138	MH-5549	MH-2573	565.12	564.13	562.8	562.7	54.2	217	0.6	538.598	1.9287	0.8811	1.7	2.1	1.21	48.5	0.01	HDPE
ZONE 235-4304	MH-6037	MH-2588	601.63	600.63	600.22	599.68	53.9	150	0.26	100	1.52	0.0072	1	1.26	0.8	5.2	0.011	HDPE
ZONE 235-6639	MH-6038	MH-18	589.36	588.25	587.59	587.05	54	400	1.58	100	20.7858	4.7952	1.1	1.36	0.8	50.7	0.011	HDPE
ZONE 235-6545	MH-5194	MH-5931	571.93	570.92	570.51	569.97	54	150	0.76	100	1.52	0.2662	1	1.26	0.8	30.6	0.011	HDPE
ZONE 235-90	MH-6039	MH-5262	584.12	582.93	582.52	581.98	54	150	1.19	100	1.672	1.0845	1.1	1.45	0.8	63.5	0.01	HDPE
ZONE 235-6628	MH-2732	MH-2646	597.33	596.62	594.11	594.05	54.1	400	0.64	1,000.00	7.2303	2.9396	2.5	2.82	2.17	45.3	0.01	HDPE
ZONE 235-4713	MH-6040	MH-6041	590.34	589.62	588.39	588.67	54.1	150	0.6	189.912	1.103	0.2586	1.3	1.8	0.8	41.8	0.011	HDPE
ZONE 235-4696	MH-355	MH-6042	610.18	610.29	606.38	606.26	50.8	175	0.6	413.623	1.2401	0.5917	3.7	3.62	3.86	57.3	0.01	HDPE
ZONE 235-5946	MH-4778	MH-4091	559.4	558	557.59	557.05	54.2	150	0.94	100	1.52	0.566	1.2	1.66	0.8	45.5	0.011	HDPE
ZONE 235-1873	MH-5768	MH-6044	565.91	566.28	564.96	565.33	54.2	150	0.4	149.798	1.2419	0.048	0.8	0.8	0.8	16.3	0.011	HDPE
ZONE 235-4712	MH-6045	MH-6040	590.15	590.34	588.24	588.39	54.2	150	0.6	353.849	0.8889	0.468	1.8	1.76	1.8	49.6	0.01	HDPE
ZONE 235-16	MH-5101	MH-6046	578.78	577.9	576.9	576.95	54.3	150	0.17	1,000.00	0.4807	0.0264	1.3	1.73	0.8	13	0.011	HDPE
ZONE 235-1866	MH-6047	MH-5797	565.88	565.55	564.93	564.6	54.4	150	0.36	164.035	1.1868	0.0366	0.8	0.8	0.8	15.2	0.011	HDPE
ZONE 235-4127	MH-364	MH-6048	567.43	567.96	563.79	563.59	53.4	150	0.6	270.304	0.9245	0.4166	3.9	3.49	4.22	49.6	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4728	MH-3935	MH-905	590.75	591.66	589.8	590.21	41.7	150	0.7	100	1.52	0.1952	1	0.8	1.3	26.1	0.011	HDPE
ZONE 235-3672	MH-6049	MH-703	579.89	580.56	578.94	578.88	56.8	150	0.16	1,000.00	0.4807	0.0232	1.2	0.8	1.53	20	0.011	HDPE
ZONE 235-4207	MH-6051	MH-4371	597.52	596.88	596.47	595.93	54.6	150	0.35	100	1.52	0.0189	0.8	0.9	0.8	8.2	0.011	HDPE
ZONE 235-6620	MH-5120	MH-5378	598.45	597.29	596.83	596.27	55.6	217	1.17	100	4.476	1.0632	1.1	1.4	0.8	37.6	0.01	HDPE
ZONE 235-3708	MH-2499	MH-715	577	577.02	575.77	575.84	33.3	175	0.6	456.457	1.1805	0.6876	1	1.06	1.01	49.4	0.01	HDPE
ZONE 235-1638	MH-6053	MH-5318	583.3	582.54	582.14	581.59	54.6	150	0.28	100	1.52	0.0095	0.9	1.01	0.8	10.2	0.011	HDPE
ZONE 235-1564	MH-6054	MH-2292	586.25	587.15	585.3	585.22	54.6	150	0.15	654.256	0.5943	0.0094	1.3	0.8	1.78	15.6	0.011	HDPE
ZONE 235-4605	MH-113	MH-5487	591.47	592.39	590.52	591.02	50.1	150	0.98	100	1.672	0.5224	1	0.8	1.22	42.6	0.01	HDPE
ZONE 235-4197	MH-6055	MH-4643	596.82	596.2	595.8	595.25	54.7	150	0.59	100	1.52	0.1079	0.8	0.87	0.8	22.1	0.011	HDPE
ZONE 235-1450	MH-5703	MH-5394	589	588.87	587.83	587.74	54.7	217	0.6	658.18	1.7447	1.2093	0.9	0.95	0.91	52.8	0.01	HDPE
ZONE 235-5758	MH-5014	MH-5077	574.82	573.62	573.22	572.67	54.8	150	0.94	100	1.52	0.5694	1.1	1.45	0.8	45.7	0.011	HDPE
ZONE 235-4209	MH-6060	MH-473	596.95	596.38	595.98	595.43	54.9	150	0.39	100	1.52	0.0288	0.8	0.82	0.8	10.1	0.011	HDPE
ZONE 235-4910	MH-6063	MH-818	585.93	586.92	584.98	585.52	54.5	150	0.88	100	1.52	0.4477	1	0.8	1.25	47.7	0.011	HDPE
ZONE 235-6525	MH-5579	MH-5729	579.7	579.02	578.37	577.82	55	400	1.55	100	20.7858	4.478	0.9	0.93	0.8	43.5	0.011	HDPE
ZONE 235-3903	MH-6066	MH-163	575.03	575.5	574.08	574.03	55.2	150	0.19	1,000.00	0.4807	0.0398	1.1	0.8	1.32	24.1	0.011	HDPE
ZONE 235-4208	MH-6067	MH-679	597.25	596.61	596.21	595.66	55.2	150	0.38	100	1.52	0.0246	0.8	0.89	0.8	9.3	0.011	HDPE
ZONE 235-6511	MH-5570	MH-5728	581	580.6	580.05	579.65	55.4	150	0.5	138.549	1.2914	0.0936	0.8	0.8	0.8	18.7	0.011	HDPE
ZONE 235-6423	MH-6071	MH-6006	566.7	565.59	565.2	564.64	55.5	150	0.43	100	1.52	0.0372	1.1	1.35	0.8	11.4	0.011	HDPE
ZONE 235-4505	MH-451	MH-511	603.01	604.32	601.93	602.08	31	271	1.06	215.363	5.5165	2.1473	1.4	0.8	1.97	44.3	0.01	HDPE
ZONE 235-4274	MH-6072	MH-6073	593.89	594.68	592.94	593.5	55.6	150	0.62	100	1.52	0.1344	0.9	0.8	1.03	21.6	0.011	HDPE
ZONE 235-4540	MH-6074	MH-5866	609.9	608.81	608.43	607.86	56.4	150	0.58	100	1.52	0.1037	1.1	1.32	0.8	22.4	0.011	HDPE
ZONE 235-1852	MH-5944	MH-6076	569.99	571.08	567.4	567.03	55.7	150	0.6	151.374	1.2354	0.1955	3.2	2.45	3.9	31.9	0.011	HDPE
ZONE 235-3921	MH-6078	MH-375	579.77	578.25	577.84	577.3	54.4	150	0.34	100	1.52	0.0175	1.3	1.78	0.8	7.9	0.011	HDPE
ZONE 235-3669	MH-6079	MH-427	580.35	581.06	579.4	579.35	55.2	150	0.15	1,000.00	0.4807	0.0173	1.2	0.8	1.56	18	0.011	HDPE
ZONE 235-1342	MH-4378	MH-5386	594.13	594.55	592.38	591.86	56.4	150	0.6	107.819	1.4639	0.1292	2.1	1.59	2.54	24.1	0.011	HDPE
ZONE 235-3975	MH-327	MH-189	564.33	565.5	563.38	563.72	34.1	150	0.55	100	1.52	0.0899	1.2	0.8	1.63	17.7	0.011	HDPE
ZONE 235-1784	MH-302	MH-187	572.04	572	569.9	569.53	47.5	150	0.65	128.126	1.3429	0.2151	2.2	1.98	2.32	31.1	0.011	HDPE
ZONE 235-4130	MH-6048	MH-89	567.96	566.98	563.59	563.44	54.5	150	0.6	364.724	0.8755	0.4905	3.8	4.22	3.39	49.3	0.01	HDPE
ZONE 235-4532	MH-6004	MH-460	605.64	605.88	604.69	604.93	56.9	150	0.38	234.635	0.9923	0.0679	0.8	0.8	0.8	17	0.011	HDPE
ZONE 235-6557	MH-5780	MH-4027	568.7	567.78	567.39	566.83	56.4	150	0.85	100	1.52	0.4047	1	1.16	0.8	38.2	0.011	HDPE
ZONE 235-6700	MH-4280	MH-5479	580.22	579.59	577.76	577.7	55.7	271	0.6	864.958	2.7527	1.8111	1.9	2.19	1.62	59	0.01	HDPE
ZONE 235-4902	MH-4943	MH-6094	600.12	601.07	599.17	599.74	57.1	150	0.89	100	1.52	0.4639	1	0.8	1.18	40.9	0.011	HDPE
ZONE 235-4716	MH-3375	MH-5529	592.73	592.34	591.53	591.14	57.1	400	1.34	145.732	18.9401	3.3668	0.8	0.8	0.8	31.5	0.01	HDPE
ZONE 235-4641	MH-6096	MH-6097	595.49	594.39	593.67	593.38	29.8	217	1.4	100	4.476	2.08	1.2	1.6	0.8	53.7	0.01	HDPE
ZONE 235-4232	MH-6098	MH-4569	592.34	592.86	591.39	591.33	57.5	150	0.17	1,000.00	0.4807	0.0246	1.1	0.8	1.38	14.7	0.011	HDPE
ZONE 235-4724	MH-6099	MH-615	594.11	593.82	592.14	592.27	57.2	175	0.6	421.06	1.2291	0.6069	1.6	1.8	1.37	50.8	0.01	HDPE
ZONE 235-98	MH-6100	MH-6101	585.03	585.69	584.08	584.65	57.3	150	0.96	100	1.52	0.6095	0.8	0.8	0.89	58	0.011	HDPE
ZONE 235-4229	MH-6103	MH-8	594.65	595.14	593.7	593.64	59	150	0.24	1,000.00	0.4807	0.0816	1.1	0.8	1.35	37.5	0.011	HDPE
ZONE 235-6580	MH-6106	MH-3429	565.94	565.68	564.99	564.73	57.6	150	0.34	220.368	1.0239	0.0445	0.8	0.8	0.8	19.7	0.011	HDPE
ZONE 235-6440	MH-3457	MH-4130	563.37	563.31	561.81	561.7	57.7	217	0.6	527.805	1.9483	0.8542	1.4	1.34	1.39	47.9	0.01	HDPE
ZONE 235-4880	MH-6107	MH-6108	610.56	610.42	609.6	609.23	57.7	150	0.6	155.446	1.2192	0.203	0.9	0.82	1.05	34.5	0.011	HDPE
ZONE 235-4784	MH-6119	MH-5081	602.92	601.86	599.91	599.77	57.9	175	0.6	424.611	1.224	0.6148	2.4	2.84	1.92	49.1	0.01	HDPE
ZONE 235-4134	MH-391	MH-5032	567.56	566.48	563.11	562.99	58.1	175	0.6	490.139	1.1392	0.7754	3.8	4.27	3.32	53.6	0.01	HDPE
ZONE 235-5083	MH-6121	MH-1060	560.93	560.47	559.87	559.52	34.5	150	0.62	100	1.52	0.1301	0.9	0.91	0.8	25	0.011	HDPE
ZONE 235-5047	MH-915	MH-1914	587.38	586.95	585.41	585.37	27.9	217	0.6	612.607	1.8084	1.0705	1.6	1.75	1.36	54.8	0.01	HDPE
ZONE 235-3703	MH-470	MH-6123	577.62	577.58	576.34	576.63	58.2	150	0.33	198.945	1.0777	0.0337	1	1.13	0.8	20.5	0.011	HDPE
ZONE 235-1751	MH-4954	MH-5479	579.71	579.59	578.74	578.64	58.4	150	0.31	569.285	0.6371	0.1063	0.8	0.82	0.8	24.1	0.011	HDPE
ZONE 235-5794	MH-6125	MH-6126	577.65	576.27	575.91	575.32	58.4	150	0.93	100	1.52	0.536	1.2	1.6	0.8	44.2	0.011	HDPE
ZONE 235-3894	MH-6128	MH-4775	577.73	575.97	575.61	575.02	58.5	150	0.36	100	1.52	0.0207	1.4	1.97	0.8	8.6	0.011	HDPE
ZONE 235-4382	MH-6129	MH-3710	601.66	600.64	600.27	599.69	58.5	150	0.3	100	1.52	0.0124	1	1.24	0.8	10.8	0.011	HDPE
ZONE 235-99	MH-6101	MH-5839	585.69	586.74	584.74	585.33	58.7	150	0.85	100	1.52	0.3867	1	0.8	1.27	37.2	0.011	HDPE
ZONE 235-1854	MH-5569	MH-6133	566.87	567.15	565.8	565.74	58.7	271	0.6	920.171	2.6688	2.0305	1	0.8	1.15	66.5	0.01	HDPE
ZONE 235-6566	MH-5094	MH-5601	567.15	566.7	566.2	565.69	58.7	150	0.6	115.282	1.4157	0.1396	0.8	0.8	0.85	22.4	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4527	MH-6134	MH-5673	607.66	607.51	606.71	606.52	58.5	150	0.6	312.175	0.8603	0.5188	0.8	0.8	0.83	51.2	0.011	HDPE
ZONE 235-5064	MH-6137	MH-5184	564.3	562.74	562.31	561.73	58.9	217	1.27	100	4.476	1.451	1.3	1.77	0.8	50.6	0.01	HDPE
ZONE 235-6709	MH-6138	MH-4821	572.47	572	570.39	570.19	60.2	900	2.05	300	106.7228	66.3891	1	1.18	0.91	57.2	0.011	HDPE
ZONE 235-3967	MH-1928	MH-5910	564.22	564.07	562.81	562.57	58.7	150	0.6	240.94	0.9793	0.3538	1.3	1.26	1.35	39.8	0.011	HDPE
ZONE 235-1434	MH-6141	MH-4826	591.17	590.09	589.73	589.14	59.1	150	0.59	100	1.52	0.1108	1	1.29	0.8	19.7	0.011	HDPE
ZONE 235-5055	MH-6142	MH-6143	586.33	587.03	585.38	585.93	59.1	150	0.68	106.116	1.4756	0.1908	0.9	0.8	0.94	29.3	0.011	HDPE
ZONE 235-1442	MH-4849	MH-4791	591.12	590.26	589.9	589.31	59.2	150	0.7	100	1.52	0.1958	0.9	1.07	0.8	26.2	0.011	HDPE
ZONE 235-4387	MH-6145	MH-1150	602.16	601.04	600.68	600.09	59.2	150	0.41	100	1.52	0.0333	1.1	1.33	0.8	10.8	0.011	HDPE
ZONE 235-20	MH-6146	MH-4436	582.39	583.63	581.44	581.38	59.4	150	0.21	1,000.00	0.4807	0.0562	1.5	0.8	2.1	30.3	0.011	HDPE
ZONE 235-4411	MH-1666	MH-455	599.68	599.03	598.28	597.86	55.5	150	0.6	130.504	1.3306	0.1616	1.1	1.24	1.02	24.5	0.011	HDPE
ZONE 235-4643	MH-6147	MH-6148	593.88	592.98	591.5	591.43	59.4	400	0.66	884.936	6.9873	3.6021	1.6	1.98	1.15	43	0.011	HDPE
ZONE 235-3877	MH-6149	MH-470	578.33	577.62	576.28	576.34	56.7	150	0.25	1,000.00	0.4807	0.09	1.5	1.9	1.13	26.3	0.011	HDPE
ZONE 235-5032	MH-6150	MH-4179	582.71	583.92	581.76	581.7	59.4	150	0.18	1,000.00	0.4807	0.0324	1.4	0.8	2.07	23.3	0.011	HDPE
ZONE 235-5809	MH-5148	MH-6152	576.06	573.5	573.14	572.55	59.6	150	0.78	100	1.52	0.2843	1.8	2.76	0.8	31.7	0.011	HDPE
ZONE 235-6629	MH-6629	MH-4667	596.62	595.77	594.05	593.99	59.7	400	0.6	1,000.00	6.573	2.9789	1.8	2.17	1.38	45.2	0.011	HDPE
ZONE 235-5088	MH-6153	MH-5528	568.99	568.28	567.93	567.33	59.7	150	0.68	100	1.52	0.1779	0.9	0.91	0.8	25	0.011	HDPE
ZONE 235-4366	MH-6156	MH-522	604.75	604.17	603.8	603.22	59.8	150	0.37	103.95	1.4909	0.0241	0.8	0.8	0.8	9.3	0.011	HDPE
ZONE 235-4925	MH-793	MH-2327	590.71	589.93	588.81	588.87	59.8	150	0.19	1,000.00	0.4807	0.0392	1.3	1.75	0.92	24.6	0.011	HDPE
ZONE 235-4359	MH-72	MH-6157	603.68	604.32	602.73	603.33	59.8	150	0.31	100	1.52	0.0138	0.8	0.8	0.84	7.1	0.011	HDPE
ZONE 235-5056	MH-6143	MH-5389	587.03	587.46	585.93	586.51	59.9	150	0.6	103.837	1.4917	0.122	0.9	0.94	0.8	25.2	0.011	HDPE
ZONE 235-6523	MH-6159	MH-5578	580.56	579.96	579.36	578.76	60	400	1.55	100	20.7858	4.4119	0.8	0.81	0.8	40.2	0.011	HDPE
ZONE 235-6411	MH-6160	MH-5735	564.91	564.55	563.94	563.57	60	175	1.05	163.637	1.9716	1.3989	0.8	0.8	0.8	68.3	0.01	HDPE
ZONE 235-1761	MH-5788	MH-6161	581.25	581	580.3	580.05	80.8	150	0.33	318.269	0.852	0.0591	0.8	0.8	0.8	16.5	0.011	HDPE
ZONE 235-6415	MH-6165	MH-6166	566.32	565.09	564.75	564.14	60.2	150	0.47	100	1.52	0.0499	1.1	1.42	0.8	13.2	0.011	HDPE
ZONE 235-4341	MH-5675	MH-6167	602.48	603.21	601.53	602.13	60.3	150	0.28	100	1.52	0.0096	0.9	0.8	0.93	5.9	0.011	HDPE
ZONE 235-1385	MH-5445	MH-3877	590.99	589.81	589.47	588.86	60.7	150	0.49	100	1.52	0.0592	1.1	1.37	0.8	22	0.011	HDPE
ZONE 235-1448	MH-5290	MH-5653	589.94	589.43	588.01	587.89	60.8	217	0.6	543.177	1.9205	0.8915	1.5	1.71	1.32	53.2	0.01	HDPE
ZONE 235-4740	MH-6180	MH-719	596.37	595.68	595.34	594.73	61	150	0.44	100	1.52	0.0431	0.8	0.88	0.8	12.3	0.011	HDPE
ZONE 235-6405	MH-6183	MH-5583	567.25	567.03	566.28	565.75	61	150	0.6	116.192	1.4101	0.1409	1	0.82	1.12	27	0.011	HDPE
ZONE 235-1951	MH-5965	MH-4291	588.89	588.23	587.89	587.28	61	150	0.49	100	1.52	0.0606	0.8	0.85	0.8	21.4	0.011	HDPE
ZONE 235-5027	MH-6185	MH-5102	577.29	578.6	576.34	576.28	61.1	150	0.18	1,000.00	0.4807	0.0335	1.5	0.8	2.17	20.2	0.011	HDPE
ZONE 235-5795	MH-6126	MH-4944	576.27	574.87	574.53	573.92	61.2	150	0.95	100	1.52	0.5991	1.2	1.59	0.8	47	0.011	HDPE
ZONE 235-6657	MH-5129	MH-3155	579.84	578.61	577.56	577.21	35.1	600	2.3	100	61.2834	20.6198	1.2	1.69	0.8	46.2	0.011	HDPE
ZONE 235-5042	MH-6190	MH-4104	589.45	588.77	588.44	587.82	61.7	150	0.56	100	1.52	0.0948	0.8	0.86	0.8	21.3	0.011	HDPE
ZONE 235-1855	MH-6133	MH-5687	567.15	567.24	565.74	565.67	61.8	271	0.6	951.344	2.6247	2.1752	1.2	1.15	1.3	66.9	0.01	HDPE
ZONE 235-4227	MH-337	MH-6192	595.8	596.31	594.85	595.36	61.8	150	0.39	119.942	1.3879	0.0335	0.8	0.8	0.8	11.1	0.011	HDPE
ZONE 235-4407	MH-101	MH-6193	599.79	599.3	598.29	598.35	61.9	150	0.13	1,000.00	0.4807	0.0118	1.1	1.35	0.8	20.6	0.011	HDPE
ZONE 235-4612	MH-969	MH-6194	593.99	595.04	592.37	592.77	42	150	0.6	104.66	1.4858	0.1255	1.8	1.47	2.12	24.2	0.011	HDPE
ZONE 235-5015	MH-6195	MH-5731	584.11	583.78	583.16	582.83	62	150	0.68	189.948	1.1029	0.4097	0.8	0.8	0.8	47.2	0.011	HDPE
ZONE 235-4541	MH-6074	MH-6196	609.9	610.12	608.95	609.17	61.8	150	0.34	284.043	0.9019	0.0586	0.8	0.8	0.8	16.2	0.011	HDPE
ZONE 235-6519	MH-5372	MH-6197	585.05	586.64	584.1	584.63	62.1	150	0.91	117.654	1.4014	0.6376	1.3	0.8	1.86	49.6	0.011	HDPE
ZONE 235-4687	MH-6198	MH-6199	597.43	599.05	596.36	596.68	31.8	271	1.5	100	8.0956	2.769	1.5	0.8	2.1	46	0.01	HDPE
ZONE 235-15	MH-5648	MH-619	579.9	579.66	577.51	577.38	63.5	175	0.6	468.488	1.1652	0.7174	2.2	2.22	2.1	50.8	0.01	HDPE
ZONE 235-3694	MH-6200	MH-5897	577	577.63	576.05	575.95	62.2	150	0.23	641.509	0.6001	0.0398	1.2	0.8	1.53	20.5	0.011	HDPE
ZONE 235-5004	MH-6203	MH-4873	584.65	585.84	583.7	583.64	62.3	150	0.18	1,000.00	0.4807	0.0331	1.4	0.8	2.06	20.2	0.011	HDPE
ZONE 235-5074	MH-1217	MH-6207	563.45	562.78	562.16	561.83	32.7	150	0.48	100	1.52	0.0552	1	1.14	0.8	13.9	0.011	HDPE
ZONE 235-4515	MH-5755	MH-6208	608.34	607.01	606.7	606.06	63.7	150	0.85	100	1.52	0.3986	1.1	1.5	0.8	37.8	0.011	HDPE
ZONE 235-4061	MH-6210	MH-5569	567.77	566.87	566.48	565.85	63.2	217	1.34	100	4.476	1.7673	0.9	1.07	0.8	55.9	0.01	HDPE
ZONE 235-3705	MH-2430	MH-5541	577	577.14	576.05	576.19	63	150	0.22	462.724	0.7066	0.0234	0.8	0.8	0.8	11	0.011	HDPE
ZONE 235-4908	MH-6211	MH-6212	590.38	591.27	589.43	590.06	63	150	0.67	100	1.52	0.1709	0.9	0.8	1.06	27.4	0.011	HDPE
ZONE 235-5941	MH-6207	MH-5063	562.78	561.79	561.47	560.84	63	150	0.66	100	1.52	0.1629	1	1.16	0.8	23.9	0.011	HDPE
ZONE 235-1757	MH-5482	MH-6215	580.81	580.63	579.86	579.43	57.3	150	0.49	131.246	1.3268	0.0799	0.9	0.8	1.06	20.5	0.011	HDPE
ZONE 235-4799	MH-6218	MH-5446	603.28	602.98	602.33	602.03	63.2	150	0.4	207.076	1.0563	0.0704	0.8	0.8	0.8	17.1	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4264	MH-6219	MH-505	591.6	591.41	590.65	590.46	63.7	150	0.21	339.198	0.8253	0.0138	0.8	0.8	0.8	15.8	0.011	HDPE
ZONE 235-1759	MH-5500	MH-6220	580.93	580.79	579.98	579.84	58.3	150	0.28	405.537	0.7548	0.0495	0.8	0.8	0.8	15.6	0.011	HDPE
ZONE 235-101	MH-5840	MH-5927	588.01	590	587.06	587.69	63.3	150	0.56	100	1.52	0.092	1.5	0.8	2.16	17.9	0.011	HDPE
ZONE 235-4262	MH-6221	MH-1	590.9	590.69	589.95	589.32	64.9	150	0.34	103.328	1.4953	0.0179	1	0.8	1.22	8	0.011	HDPE
ZONE 235-4867	MH-1720	MH-6222	598.72	599.51	597.77	598.41	63.4	150	0.57	100	1.52	0.1016	0.9	0.8	0.95	21.7	0.011	HDPE
ZONE 235-4772	MH-6223	MH-471	615.19	614.03	613.71	613.08	63.8	150	0.69	100	1.52	0.1924	1.1	1.33	0.8	25.9	0.011	HDPE
ZONE 235-5025	MH-1084	MH-6224	579.29	578.4	576.13	576.06	63.3	271	0.6	932.717	2.6508	2.0837	2.5	2.89	2.07	54.9	0.01	HDPE
ZONE 235-6479	MH-2830	MH-5771	581.78	581.61	578.51	578.37	63.6	175	0.6	456.07	1.181	0.6867	3.1	3.1	3.07	54.9	0.01	HDPE
ZONE 235-6426	MH-4408	MH-6012	564.16	563.42	563.11	562.47	63.6	150	0.73	100	1.52	0.2287	0.9	0.9	0.8	28.4	0.011	HDPE
ZONE 235-6407	MH-5584	MH-6227	566.76	566.31	565.5	565.22	63.7	150	0.6	225.599	1.012	0.3238	1	1.11	0.94	44.5	0.011	HDPE
ZONE 235-3633	MH-6229	MH-6230	579.9	579.5	578.11	578.55	63.8	150	0.6	142.162	1.2748	0.1808	1.2	1.64	0.8	29.1	0.011	HDPE
ZONE 235-4636	MH-6231	MH-6232	599.71	598.95	598.64	598	63.8	150	0.85	100	1.52	0.4013	0.9	0.92	0.8	38	0.011	HDPE
ZONE 235-4213	MH-4678	MH-6233	596.13	596.67	595.18	595.72	63.9	150	0.27	118.525	1.3962	0.0101	0.8	0.8	0.8	6.2	0.011	HDPE
ZONE 235-1389	MH-6013	MH-3790	588.79	587.55	587.24	586.6	64	150	0.7	100	1.52	0.2029	1.1	1.4	0.8	26.7	0.011	HDPE
ZONE 235-6687	MH-6010	MH-6234	580.23	579.33	575.01	574.94	65.1	800	1.06	1,000.00	41.7362	29.9779	4	4.43	3.59	50.6	0.011	HDPE
ZONE 235-4660	MH-6236	MH-6237	593.46	594.37	591.95	591.8	61.9	175	0.6	402.309	1.2574	0.5685	1.9	1.34	2.39	43.5	0.01	HDPE
ZONE 235-4263	MH-6238	MH-463	591.28	591.05	590.33	590.09	64	150	0.23	257.713	0.9469	0.0147	0.8	0.8	0.82	13.6	0.011	HDPE
ZONE 235-4806	MH-6239	MH-5883	604.83	603.68	602.92	602.3	63.5	150	0.62	102.444	1.5018	0.1322	1.5	1.76	1.23	28	0.011	HDPE
ZONE 235-4302	MH-4698	MH-6240	596.9	598.09	595.95	596.59	64.1	150	0.33	100	1.52	0.0167	1.1	0.8	1.35	14.2	0.011	HDPE
ZONE 235-4569	MH-6244	MH-6245	597.21	596.24	592.99	592.81	36.6	150	0.6	203.323	1.066	0.2851	3.7	4.07	3.28	36.4	0.011	HDPE
ZONE 235-6404	MH-6248	MH-6183	567.29	567.25	566.34	566.28	64.5	150	0.22	1,000.00	0.4807	0.0566	0.8	0.8	0.82	23.4	0.011	HDPE
ZONE 235-4601	MH-2964	MH-114	590.32	591.47	589.12	589.52	39.6	400	1.59	100	20.7858	4.8994	1.2	0.8	1.55	37.5	0.011	HDPE
ZONE 235-113	MH-5995	MH-6250	574.29	572.52	572.19	571.55	64.7	175	1.34	100	2.5221	1.8105	1.4	1.92	0.8	67.8	0.01	HDPE
ZONE 235-103	MH-5928	MH-5354	588.98	587.33	587.03	586.38	64.7	150	0.63	100	1.52	0.1378	1.3	1.8	0.8	21.9	0.011	HDPE
ZONE 235-1713	MH-167	MH-4280	580.15	580.22	579.11	579.05	59.1	150	0.18	1,000.00	0.4807	0.0286	1	0.89	1.02	13.5	0.011	HDPE
ZONE 235-4588	MH-4628	MH-6251	603.94	603.89	602.68	602.94	64.8	150	0.28	242.749	0.9756	0.026	1	1.12	0.8	13.8	0.011	HDPE
ZONE 235-4260	MH-4894	MH-6252	590.3	590.71	589.1	589.51	64.8	400	1.27	160.654	16.3991	3.9998	0.8	0.8	0.8	47.3	0.011	HDPE
ZONE 235-1752	MH-5750	MH-2108	579.29	578.89	578.19	577.63	64.8	150	0.6	115.223	1.4161	0.1395	1	0.95	1.12	22.4	0.011	HDPE
ZONE 235-6430	MH-6254	MH-6012	563.44	563.42	562.49	562.24	64.9	150	0.6	251.643	0.9582	0.3762	0.9	0.8	1.03	41.4	0.011	HDPE
ZONE 235-4275	MH-6073	MH-4522	594.68	595.44	593.5	593.96	64.9	150	0.52	141.189	1.2792	0.109	1.2	1.03	1.33	22.2	0.011	HDPE
ZONE 235-3993	MH-4445	MH-4998	565.72	566.37	563.35	563.05	62.9	150	0.6	211.853	1.0443	0.297	2.7	2.22	3.17	37.5	0.011	HDPE
ZONE 235-3696	MH-2837	MH-6255	579.26	579.51	576.86	576.3	65	150	0.6	116.302	1.4095	0.1411	2.7	2.25	3.06	26.7	0.011	HDPE
ZONE 235-114	MH-6250	MH-5657	572.52	571.37	571.05	570.39	65.2	175	1.36	100	2.5221	1.8876	1.1	1.3	0.8	69.4	0.01	HDPE
ZONE 235-3629	MH-2958	MH-5885	584.17	583.49	583.19	582.54	65.3	150	0.64	100	1.52	0.1437	0.8	0.82	0.8	22.4	0.011	HDPE
ZONE 235-5079	MH-6260	MH-6261	561.56	561.33	560.61	560.23	65.3	150	0.6	172.867	1.1561	0.2313	0.9	0.8	0.95	39.9	0.011	HDPE
ZONE 235-4640	MH-4377	MH-6096	596.71	595.49	595.12	594.47	65.4	217	1.39	100	4.476	2.0248	1.1	1.36	0.8	52.9	0.01	HDPE
ZONE 235-6663	MH-5975	MH-4810	600.16	598.56	598.27	597.61	65.5	150	0.71	100	1.52	0.2115	1.3	1.74	0.8	27.3	0.011	HDPE
ZONE 235-4573	MH-6264	MH-631	600.99	601.35	600.04	599.97	66.2	150	0.16	1,000.00	0.4807	0.0189	1	0.8	1.23	22.5	0.011	HDPE
ZONE 235-1503	MH-4373	MH-4458	588.16	587.92	587.19	586.87	65.6	150	0.6	202.113	1.0692	0.279	0.9	0.82	0.9	36.5	0.011	HDPE
ZONE 235-6569	MH-5517	MH-3880	565.49	564.93	564.54	563.98	65.7	150	0.85	117.311	1.4034	0.4903	0.8	0.8	0.8	49.1	0.011	HDPE
ZONE 235-4045	MH-6266	MH-5774	573.27	573.09	572.32	571.81	65.7	150	0.6	131.011	1.328	0.1646	1	0.8	1.12	30.9	0.011	HDPE
ZONE 235-4922	MH-6270	MH-6271	588.78	588.48	587.21	587.53	67.1	150	0.36	209.06	1.0513	0.0488	1.1	1.42	0.8	24.2	0.011	HDPE
ZONE 235-4923	MH-749	MH-6272	589.87	589.19	588.17	588.24	66.6	150	0.17	1,000.00	0.4807	0.0252	1.2	1.55	0.8	21.1	0.011	HDPE
ZONE 235-4426	MH-107	MH-6273	600.9	602.02	599.95	600.62	66.1	150	0.44	100	1.52	0.0402	1	0.8	1.25	11.9	0.011	HDPE
ZONE 235-1684	MH-5979	MH-6028	582.47	581.93	581.52	580.98	66.2	150	0.46	122.227	1.3749	0.0607	0.8	0.8	0.8	17.4	0.011	HDPE
ZONE 235-4768	MH-6275	MH-6276	610.36	612.4	609.41	609.88	46.6	150	0.83	100	1.52	0.3655	1.6	0.8	2.38	40	0.011	HDPE
ZONE 235-131	MH-6278	MH-5515	570.46	570	569.49	569.03	66.3	175	1.11	143.641	2.1044	1.4584	0.8	0.8	0.8	63.2	0.01	HDPE
ZONE 235-4423	MH-6279	MH-3755	601.34	600.43	600.15	599.48	66.4	150	0.4	100	1.52	0.0304	0.9	1.05	0.8	17	0.011	HDPE
ZONE 235-1395	MH-5809	MH-4538	589.31	587.57	587.29	586.62	66.6	150	0.42	100	1.52	0.037	1.3	1.87	0.8	11.4	0.011	HDPE
ZONE 235-4586	MH-6284	MH-4518	603.17	603.34	602.22	602.07	66.7	150	0.21	461.486	0.7076	0.0209	1	0.8	1.11	16.2	0.011	HDPE
ZONE 235-3634	MH-6230	MH-5862	579.5	581.39	578.55	579.22	66.8	150	0.57	100	1.52	0.0966	1.4	0.8	2.01	23.5	0.011	HDPE
ZONE 235-4879	MH-6287	MH-6107	610.61	610.56	609.66	609.6	66.8	150	0.25	1,000.00	0.4807	0.1019	0.8	0.8	0.82	29.9	0.011	HDPE
ZONE 235-4244	MH-6288	MH-39	591.94	591.72	590.99	590.69	66.7	150	0.24	224.032	1.0155	0.0149	0.8	0.8	0.87	9.7	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1268	MH-5252	MH-5386	594.19	594.55	592.64	592.51	67	175	0.6	485.279	1.1449	0.7621	1.6	1.37	1.87	53	0.01	HDPE
ZONE 235-6446	MH-6289	MH-3456	563.69	563.4	562.1	561.92	67.1	150	0.6	379.016	0.8588	0.5215	1.4	1.44	1.33	54.3	0.01	HDPE
ZONE 235-4143	MH-6290	MH-597	564.94	564	563.73	563.05	68.1	150	0.41	100	1.52	0.0338	0.9	1.06	0.8	10.9	0.011	HDPE
ZONE 235-4727	MH-6292	MH-3935	591.5	590.75	590.47	589.8	67.4	150	0.79	100	1.52	0.2996	0.8	0.88	0.8	32.6	0.011	HDPE
ZONE 235-1492	MH-3700	MH-6293	588.4	587.98	586.97	587.03	67.6	150	0.21	1,000.00	0.4807	0.0545	1	1.29	0.8	22.3	0.011	HDPE
ZONE 235-6416	MH-6166	MH-5172	565.09	563.79	563.52	562.84	67.7	150	0.66	100	1.52	0.1662	1.1	1.43	0.8	24.1	0.011	HDPE
ZONE 235-3876	MH-5987	MH-6149	579.15	578.33	575.68	576.28	67.8	150	0.6	112.986	1.43	0.1362	2.6	3.32	1.9	25	0.011	HDPE
ZONE 235-5871	MH-6296	MH-2480	572.43	572.85	571.48	571.41	67.9	150	0.23	1,000.00	0.4807	0.0691	1	0.8	1.28	32.8	0.011	HDPE
ZONE 235-118	MH-6297	MH-6298	577.9	578.07	576.92	576.76	67.9	175	0.6	410.649	1.2446	0.5856	1	0.8	1.14	50.4	0.01	HDPE
ZONE 235-4962	MH-6299	MH-6300	604.39	604.35	603.44	603.2	68.1	150	0.6	276.34	0.9144	0.4302	0.9	0.8	1	45.2	0.011	HDPE
ZONE 235-6707	MH-5888	MH-6301	573.68	572.88	572.37	571.68	68.3	400	1.87	100	20.7858	8.9334	0.9	0.91	0.8	58.1	0.011	HDPE
ZONE 235-3892	MH-5594	MH-4331	579.89	578.6	578.33	577.65	68.4	150	0.52	100	1.52	0.0712	1.1	1.41	0.8	20	0.011	HDPE
ZONE 235-3827	MH-6304	MH-3595	581.17	580.53	580.22	579.58	68.6	150	0.27	106.554	1.4725	0.0087	0.8	0.8	0.8	16.6	0.011	HDPE
ZONE 235-5033	MH-6306	MH-3966	580.35	579.62	579.36	578.67	68.7	150	0.4	100	1.52	0.0316	0.8	0.84	0.8	17	0.011	HDPE
ZONE 235-4253	MH-3647	MH-85	590.85	591.66	589.89	590.07	47.9	150	0.6	265.973	0.932	0.4065	1.1	0.81	1.44	43.6	0.011	HDPE
ZONE 235-4928	MH-6307	MH-6308	587.79	587.76	586.25	586.81	70.3	150	0.36	125.335	1.3577	0.0268	1.1	1.39	0.8	24.4	0.011	HDPE
ZONE 235-43	MH-5838	MH-5009	582.84	581.95	581.69	581	68.9	150	0.9	100	1.52	0.482	0.9	0.99	0.8	41.8	0.011	HDPE
ZONE 235-4808	MH-6309	MH-5164	603.63	604.35	602.68	603.37	68.9	150	0.63	100	1.52	0.1403	0.8	0.8	0.82	27.3	0.011	HDPE
ZONE 235-3661	MH-6018	MH-775	580.69	581.3	578.04	577.87	39.6	150	0.6	220.491	1.0237	0.3144	2.9	2.49	3.29	38.5	0.011	HDPE
ZONE 235-6642	MH-4592	MH-5483	587.96	587.04	586.53	585.84	69	400	1.91	100	20.7858	9.6777	0.9	1.03	0.8	60.6	0.011	HDPE
ZONE 235-4684	MH-940	MH-6311	597.56	597.42	596.13	596.19	69	400	0.63	1,000.00	6.573	3.4978	0.9	1.03	0.83	51.8	0.011	HDPE
ZONE 235-3829	MH-2389	MH-3372	582.51	581.14	580.88	580.19	69.3	150	0.7	100	1.52	0.1983	1.1	1.47	0.8	26.3	0.011	HDPE
ZONE 235-6445	MH-1448	MH-6289	563.98	563.69	562.39	562.1	69.3	150	0.6	239.42	0.9824	0.3505	1.4	1.44	1.44	48.1	0.011	HDPE
ZONE 235-6410	MH-6313	MH-6160	565.36	564.91	564.41	563.96	69.3	150	1	156.445	1.3368	1.1158	0.8	0.8	0.8	69.5	0.01	HDPE
ZONE 235-30	MH-1805	MH-2364	578.74	577.36	576.99	576.29	69.4	271	1.31	100	8.0956	1.7249	1.1	1.48	0.8	35.9	0.01	HDPE
ZONE 235-4568	MH-1338	MH-6244	597.04	597.21	596.09	596.04	44.3	150	0.15	1,000.00	0.4807	0.0184	0.9	0.8	1.02	10.9	0.011	HDPE
ZONE 235-6515	MH-6318	MH-1953	576.55	575.38	574.88	574.18	69.8	400	1.7	100	20.7858	6.1676	1	1.28	0.8	42.3	0.011	HDPE
ZONE 235-5947	MH-6319	MH-6283	568.09	567.18	565.67	566.23	69.8	150	0.6	125.149	1.3587	0.1551	1.5	2.27	0.8	49.3	0.011	HDPE
ZONE 235-1436	MH-5921	MH-4825	591.21	590.18	589.93	589.23	69.8	150	0.45	100	1.52	0.0437	1	1.13	0.8	12.4	0.011	HDPE
ZONE 235-4707	MH-5804	MH-5946	596.67	597.57	594.24	594.31	70	600	0.86	1,000.00	19.3795	12.5323	2.3	1.84	2.67	57.2	0.011	HDPE
ZONE 235-5072	MH-3646	MH-2112	565.17	563.93	563.68	562.98	70.1	150	1.06	100	1.52	0.9281	1.1	1.34	0.8	59.8	0.011	HDPE
ZONE 235-1715	MH-6321	MH-4279	580.34	580.41	579.39	579.32	70.3	150	0.16	1,000.00	0.4807	0.0189	0.9	0.8	0.94	11	0.011	HDPE
ZONE 235-119	MH-6298	MH-1136	578.07	578.56	576.76	576.6	69.5	175	0.6	450.121	1.1888	0.6729	1.5	1.14	1.78	48.6	0.01	HDPE
ZONE 235-4634	MH-5307	MH-6323	601.73	600.64	600.4	599.69	70.4	150	0.75	100	1.52	0.2564	1	1.18	0.8	30	0.011	HDPE
ZONE 235-1718	MH-1511	MH-4803	580.6	580.68	577.96	577.89	42.5	217	0.6	629.374	1.7842	1.1188	2.5	2.42	2.57	50.8	0.01	HDPE
ZONE 235-3697	MH-4149	MH-6234	578.74	579.33	574.86	574.57	70.8	150	0.6	238.249	0.9848	0.3481	4.2	3.73	4.62	39.4	0.011	HDPE
ZONE 235-4669	MH-5926	MH-6326	603.98	604.76	603.03	603.74	71.3	150	0.35	100	1.52	0.0185	0.8	0.8	0.87	13.9	0.011	HDPE
ZONE 235-5790	MH-2501	MH-5671	575.67	574.04	573.8	573.09	71.5	150	0.48	100	1.52	0.0572	1.3	1.72	0.8	23.6	0.011	HDPE
ZONE 235-6613	MH-6328	MH-3296	604.64	603.44	603.25	602.49	76.3	150	0.44	100	1.52	0.0417	1	1.23	0.8	12.1	0.011	HDPE
ZONE 235-4477	MH-744	MH-3296	604.83	603.44	602.88	602.49	38.7	150	0.67	100	1.52	0.1719	1.3	1.81	0.8	24.5	0.011	HDPE
ZONE 235-126	MH-6329	MH-6278	571.24	570.46	570.23	569.51	71.6	150	0.71	100	1.52	0.2127	0.8	0.87	0.8	45.1	0.011	HDPE
ZONE 235-1486	MH-2381	MH-2382	588.37	588.34	586.27	586.36	13	150	0.6	158.23	1.2084	0.2042	1.9	1.94	1.83	29.5	0.011	HDPE
ZONE 235-4997	MH-3272	MH-4040	585.81	586.13	581.77	581.63	24.4	150	0.6	173.411	1.1543	0.2321	4.1	3.89	4.35	30.6	0.011	HDPE
ZONE 235-1706	MH-2879	MH-4034	586.36	587.39	585.41	585.37	35.4	150	0.25	1,000.00	0.4807	0.0969	1.3	0.8	1.87	27.3	0.011	HDPE
ZONE 235-1696	MH-135	MH-4043	584.8	584.59	583.14	583.11	26.7	150	0.24	1,000.00	0.4807	0.0852	1.4	1.51	1.33	29.4	0.011	HDPE
ZONE 235-3828	MH-2388	MH-2389	582.83	582.51	581.69	581.56	13	150	0.66	100	1.52	0.1645	0.9	1	0.8	24	0.011	HDPE
ZONE 235-6681	MH-2836	MH-2837	579.29	579.26	577.69	577.67	20.9	150	0.19	1,000.00	0.4807	0.0377	1.4	1.45	1.44	15.5	0.011	HDPE
ZONE 235-84	MH-2397	MH-757	581.23	581.1	580.28	580.15	13	150	0.2	101.052	1.5121	0.0029	0.8	0.8	0.8	3.3	0.011	HDPE
ZONE 235-1955	MH-3730	MH-3745	589.36	589.71	587.21	586.88	35.4	150	0.6	107.567	1.4656	0.1289	2.3	1.99	2.68	24.1	0.011	HDPE
ZONE 235-4552	MH-2843	MH-2490	601.49	601.52	600.54	600.57	15.9	150	0.35	433.322	0.7302	0.1112	0.8	0.8	0.8	24.5	0.011	HDPE
ZONE 235-1298	MH-2410	MH-1102	587.5	587.39	585.48	585.47	13.1	400	0.62	1,000.00	7.2303	2.6046	1.6	1.62	1.52	39.9	0.01	HDPE
ZONE 235-3815	MH-1990	MH-34	582.11	581.83	581.03	580.88	15.5	150	0.26	100	1.52	0.0074	0.9	0.93	0.8	5.2	0.011	HDPE
ZONE 235-4632	MH-3236	MH-3237	602.42	602.22	601.45	601.27	18.1	150	0.62	100	1.52	0.1266	0.8	0.82	0.8	21	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1721	MH-2426	MH-2073	580.97	580.87	578.11	578.09	13.2	217	0.6	533.327	1.9382	0.8674	2.6	2.64	2.57	46.8	0.01	HDPE
ZONE 235-6690	MH-2430	MH-2431	577	577	573.65	573.64	13.2	800	1.07	1,000.00	41.7362	31.185	2.6	2.55	2.56	68.2	0.011	HDPE
ZONE 235-5002	MH-4075	MH-4076	584	584.11	583.05	583.02	24.5	150	0.14	1,000.00	0.4807	0.0141	0.9	0.8	0.93	9.6	0.011	HDPE
ZONE 235-3996	MH-2872	MH-431	565.74	565.44	562.92	562.85	16.1	150	0.6	241.719	0.9777	0.3555	2.6	2.67	2.44	42.9	0.011	HDPE
ZONE 235-1520	MH-2873	MH-2874	588.66	588.68	587.71	587.7	16.1	150	0.25	1,000.00	0.4807	0.1009	0.8	0.8	0.84	26.5	0.011	HDPE
ZONE 235-4256	MH-410	MH-1	590.92	590.69	589.05	589.07	17.2	400	0.65	1,000.00	6.573	4.0935	1.3	1.47	1.22	57	0.011	HDPE
ZONE 235-4443	MH-2464	MH-2465	595.34	595.06	594.25	594.11	13.5	150	0.63	100	1.52	0.1388	0.9	0.94	0.8	33.2	0.011	HDPE
ZONE 235-1413	MH-2593	MH-5096	593.9	593.47	592.88	592.52	36	150	0.55	100	1.52	0.0891	0.8	0.87	0.8	17.6	0.011	HDPE
ZONE 235-1551	MH-3284	MH-2348	587.79	587.56	586.24	586.22	18.4	150	0.2	1,000.00	0.4807	0.0442	1.3	1.4	1.19	21.1	0.011	HDPE
ZONE 235-3	MH-2905	MH-2906	580.48	580.34	579.53	579.39	16.3	150	0.37	115.44	1.4147	0.0274	0.8	0.8	0.8	16.1	0.011	HDPE
ZONE 235-1526	MH-2110	MH-1709	588.12	587.82	587.12	586.87	24.4	150	0.57	100	1.52	0.0983	0.8	0.85	0.8	18.5	0.011	HDPE
ZONE 235-5872	MH-2480	MH-2360	572.85	572.88	571.41	571.4	13.6	150	0.25	1,000.00	0.4807	0.0919	1.3	1.28	1.34	43.9	0.011	HDPE
ZONE 235-6614	MH-3296	MH-3297	603.44	603.07	602.3	602.12	18.4	150	0.73	100	1.52	0.2288	0.9	0.99	0.8	28.4	0.011	HDPE
ZONE 235-6015	MH-3025	MH-1295	580.29	580.47	578.84	578.82	18.4	150	0.2	1,000.00	0.4807	0.0464	1.4	1.29	1.5	23.8	0.011	HDPE
ZONE 235-1555	MH-1935	MH-2292	587.33	587.15	585.24	585.22	19.5	150	0.25	1,000.00	0.4807	0.099	1.9	1.94	1.78	26.4	0.011	HDPE
ZONE 235-6497	MH-3327	MH-3434	582.31	582.05	581.3	581.1	19.5	150	0.35	100	1.52	0.0197	0.8	0.86	0.8	9.5	0.011	HDPE
ZONE 235-1812	MH-340	MH-2919	573.21	573.09	572.12	572.14	16.4	150	0.13	1,000.00	0.4807	0.0093	0.9	0.94	0.8	12.2	0.011	HDPE
ZONE 235-33	MH-2304	MH-1967	577	577	575.93	575.91	13.7	271	0.6	851.958	2.7736	1.7645	0.8	0.8	0.82	52.9	0.01	HDPE
ZONE 235-6689	MH-2499	MH-2430	577	577	573.67	573.65	14.4	800	1.07	1,000.00	41.7362	31.1481	2.5	2.53	2.55	67.9	0.011	HDPE
ZONE 235-5789	MH-2500	MH-2501	575.88	575.67	574.86	574.72	13.7	150	0.41	100	1.52	0.0325	0.8	0.87	0.8	10.7	0.011	HDPE
ZONE 235-3656	MH-704	MH-1759	580.56	580.51	578.83	578.8	3.7	150	0.6	126.192	1.3531	0.1571	1.6	1.58	1.55	25.6	0.011	HDPE
ZONE 235-3928	MH-394	MH-2502	579.93	579.73	578.18	578.3	18.9	150	0.6	151.654	1.2343	0.196	1.4	1.6	1.27	30.4	0.011	HDPE
ZONE 235-3913	MH-2508	MH-376	578.15	578.25	576.78	576.86	11.6	150	0.6	145.955	1.2582	0.1865	1.2	1.23	1.24	27.9	0.011	HDPE
ZONE 235-3638	MH-2516	MH-2517	583.05	583.23	582.1	582.09	13.9	150	0.26	1,000.00	0.4807	0.1093	0.9	0.8	1	28	0.011	HDPE
ZONE 235-6475	MH-2519	MH-1969	581.48	581.55	578.7	578.65	13.9	150	0.6	275.421	0.9159	0.4282	2.7	2.63	2.75	49.5	0.011	HDPE
ZONE 235-3664	MH-2948	MH-2949	581.29	581.25	577.61	577.55	16.5	150	0.6	266.569	0.931	0.4079	3.5	3.53	3.55	46.2	0.011	HDPE
ZONE 235-6413	MH-5022	MH-5022	564.21	563.98	563.24	563	33.4	175	1.17	143.915	2.1024	1.8567	0.8	0.8	0.8	73.2	0.01	HDPE
ZONE 235-3647	MH-2545	MH-246	582.06	582.26	581.11	581.1	13.7	150	0.24	1,000.00	0.4807	0.0866	0.9	0.8	1.01	33.5	0.011	HDPE
ZONE 235-5022	MH-556	MH-3351	581.25	581.57	580.3	580.37	7	150	1.22	100	1.672	1.2314	0.9	0.8	1.04	68.4	0.01	HDPE
ZONE 235-1421	MH-2989	MH-2990	594.05	593.93	592.53	592.52	16.7	150	0.22	1,000.00	0.4807	0.057	1.3	1.36	1.26	25.4	0.011	HDPE
ZONE 235-4271	MH-3	MH-2551	592.62	592.8	591.67	591.81	13.9	150	0.74	100	1.52	0.2487	0.8	0.8	0.84	29.6	0.011	HDPE
ZONE 235-1432	MH-3354	MH-3355	592.46	592.2	591.44	591.25	18.9	150	0.43	100	1.52	0.0383	0.8	0.87	0.8	11.6	0.011	HDPE
ZONE 235-1811	MH-169	MH-339	573.29	573.21	572.34	572.26	14.2	150	0.4	181.881	1.1271	0.0596	0.8	0.8	0.8	15.5	0.011	HDPE
ZONE 235-1786	MH-187	MH-516	572	571.89	569.53	569.42	20.5	150	0.6	186.212	1.1139	0.251	2.3	2.32	2.32	32.1	0.011	HDPE
ZONE 235-4548	MH-2363	MH-2572	603.03	603.04	602.08	602.09	14.3	150	0.26	965.887	0.4891	0.1126	0.8	0.8	0.8	27	0.011	HDPE
ZONE 235-4140	MH-2573	MH-597	564.13	564	562.7	562.67	17.2	217	0.6	568.639	1.877	0.9531	1.2	1.21	1.11	50.7	0.01	HDPE
ZONE 235-3951	MH-2584	MH-716	577	577.03	576.05	575.91	15.1	150	0.41	109.599	1.4519	0.0377	0.9	0.8	0.96	29.1	0.011	HDPE
ZONE 235-4429	MH-1646	MH-2588	600.77	600.63	599.46	599.34	14.4	150	0.6	119.813	1.3887	0.1461	1.1	1.16	1.14	23.1	0.011	HDPE
ZONE 235-70	MH-1913	MH-2606	580.29	580.08	579.27	579.13	14.4	150	0.52	100	1.52	0.0728	0.8	0.87	0.8	16	0.011	HDPE
ZONE 235-6491	MH-3042	MH-3043	582	581.89	581.05	580.94	17	150	0.3	154.934	1.2212	0.0204	0.8	0.8	0.8	9.8	0.011	HDPE
ZONE 235-5942	MH-5063	MH-3254	561.79	561.28	560.67	560.33	33.9	150	0.78	100	1.52	0.2962	0.9	0.97	0.8	32.4	0.011	HDPE
ZONE 235-4062	MH-3414	MH-2940	572	571.5	570.74	570.55	19.3	150	0.33	100	1.52	0.0165	1	1.11	0.8	7.7	0.011	HDPE
ZONE 235-4365	MH-5072	MH-72	602.99	603.68	602.04	602.38	34	150	0.57	100	1.52	0.0999	1	0.8	1.15	18.7	0.011	HDPE
ZONE 235-53	MH-2628	MH-2314	581.79	581.63	580.83	580.68	14.5	150	0.22	100	1.52	0.0046	0.8	0.81	0.8	4.2	0.011	HDPE
ZONE 235-1645	MH-3056	MH-3057	588.76	588.56	587.78	587.61	17.1	150	0.28	100	1.52	0.01	0.8	0.83	0.8	6	0.011	HDPE
ZONE 235-1676	MH-2633	MH-135	584.97	584.8	583.97	583.85	12.1	150	0.42	100	1.52	0.0356	0.8	0.85	0.8	11.2	0.011	HDPE
ZONE 235-6000	MH-2641	MH-2642	579.55	579.16	578.36	578.21	14.6	150	0.72	100	1.52	0.2244	0.9	1.04	0.8	28.1	0.011	HDPE
ZONE 235-1803	MH-3064	MH-3065	572.43	572.27	571.48	571.32	17.2	150	0.72	106.739	1.4713	0.2348	0.8	0.8	0.8	31.9	0.011	HDPE
ZONE 235-3596	MH-738	MH-2582	575.31	574.99	573.62	573.56	36.8	217	0.6	664.36	1.7366	1.2293	1.3	1.48	1.22	61.9	0.01	HDPE
ZONE 235-6691	MH-2431	MH-2664	577	577	573.64	573.62	14.8	800	1.07	1,000.00	41.7362	31.2047	2.6	2.56	2.58	68.7	0.011	HDPE
ZONE 235-6555	MH-2665	MH-2666	570.99	570.72	569.75	569.77	14.8	150	0.15	1,000.00	0.4807	0.0175	0.9	1.09	0.8	13.8	0.011	HDPE
ZONE 235-4550	MH-3087	MH-3088	603.1	603.19	602.15	602.24	17.3	150	0.42	187.516	1.11	0.072	0.8	0.8	0.8	21	0.011	HDPE
ZONE 235-5835	MH-3576	MH-3577	581.49	581.33	580.54	580.38	20.7	150	0.32	129.364	1.3364	0.0194	0.8	0.8	0.8	10	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1414	MH-5096	MH-5097	593.47	592.64	592.03	591.69	34.5	150	0.59	100	1.52	0.114	1	1.29	0.8	20	0.011	HDPE
ZONE 235-5786	MH-3105	MH-1980	572.09	572.28	570.71	570.56	17.4	150	0.6	114.269	1.422	0.1381	1.4	1.23	1.57	24	0.011	HDPE
ZONE 235-1671	MH-3956	MH-3957	585.82	585.55	584.83	584.6	23.4	150	0.28	100	1.52	0.009	0.8	0.84	0.8	5.7	0.011	HDPE
ZONE 235-1813	MH-826	MH-3223	571.87	571.68	570.28	570.3	23.4	150	0.21	1,000.00	0.4807	0.0516	1.3	1.44	1.23	32.3	0.011	HDPE
ZONE 235-5163	MH-3962	MH-3963	564.33	563.74	563.03	562.79	23.4	150	0.61	100	1.52	0.1252	1	1.15	0.8	20.9	0.011	HDPE
ZONE 235-5802	MH-4218	MH-2213	578.03	577.53	576.93	576.58	34.6	150	0.42	100	1.52	0.0364	0.9	0.95	0.8	13	0.011	HDPE
ZONE 235-1541	MH-5113	MH-3934	585.94	586.1	584.26	584.23	34.7	150	0.21	1,000.00	0.4807	0.0545	1.6	1.53	1.72	25.2	0.011	HDPE
ZONE 235-1636	MH-2129	MH-2029	583.12	583.38	581.46	581.35	21	150	0.6	190.334	1.1018	0.2596	1.7	1.51	1.88	33.1	0.011	HDPE
ZONE 235-1407	MH-5126	MH-4351	587.57	587.37	586.62	586.42	34.9	150	0.44	171.734	1.1599	0.0753	0.8	0.8	0.8	24.1	0.011	HDPE
ZONE 235-1625	MH-2738	MH-2739	584.07	583.91	582.94	582.96	15.3	150	0.1	1,000.00	0.4807	0.0044	0.9	0.97	0.8	9.9	0.011	HDPE
ZONE 235-4449	MH-3992	MH-771	597.61	597.38	596.66	596.42	23.6	150	0.26	100.081	1.5194	0.0076	0.8	0.8	0.81	9.6	0.011	HDPE
ZONE 235-5784	MH-1346	MH-2749	572.4	571.87	571.07	570.92	15.4	150	0.56	100	1.52	0.0944	1	1.18	0.8	21	0.011	HDPE
ZONE 235-5778	MH-2758	MH-2759	575.88	575.32	574.52	574.37	15.4	150	0.36	100	1.52	0.0212	1	1.2	0.8	8.7	0.011	HDPE
ZONE 235-4577	MH-2760	MH-2761	601.88	601.99	600.7	600.69	15.4	150	0.18	1,000.00	0.4807	0.0301	1.1	1.03	1.15	18.9	0.011	HDPE
ZONE 235-1644	MH-3160	MH-3056	588.99	588.76	587.99	587.81	17.7	150	0.22	100	1.52	0.0046	0.8	0.85	0.8	4.2	0.011	HDPE
ZONE 235-4944	MH-395	MH-2767	587	586.7	584.56	584.62	20.4	150	0.6	366.084	0.8739	0.4934	2.1	2.29	1.93	49.5	0.01	HDPE
ZONE 235-5849	MH-2771	MH-2772	586.69	586.25	585.45	585.3	15.5	150	0.73	100	1.52	0.2327	0.9	1.08	0.8	28.6	0.011	HDPE
ZONE 235-5830	MH-3173	MH-1943	581.46	581.46	579.35	579.27	17.8	150	0.6	210.058	1.0488	0.2935	2	1.96	2.04	36.2	0.011	HDPE
ZONE 235-5093	MH-1831	MH-3175	566.28	566.04	565.27	565.09	17.8	150	1	100	1.52	0.7325	0.8	0.86	0.8	52.4	0.011	HDPE
ZONE 235-4584	MH-2778	MH-2566	602.61	602.5	601.4	601.42	15.5	150	0.16	1,000.00	0.4807	0.021	1	1.05	0.93	15.4	0.011	HDPE
ZONE 235-1590	MH-2779	MH-2246	583.49	583.35	582.54	582.4	15.5	150	0.9	110.397	1.4467	0.5458	0.8	0.8	0.8	45.2	0.011	HDPE
ZONE 235-6490	MH-3186	MH-3042	582.24	582	581.23	581.05	17.9	150	0.33	100	1.52	0.0163	0.8	0.86	0.8	8.5	0.011	HDPE
ZONE 235-1562	MH-4036	MH-2816	586.68	587.07	585.28	585.25	24	150	0.13	1,000.00	0.4807	0.0114	1.5	1.25	1.67	15.4	0.011	HDPE
ZONE 235-4356	MH-3206	MH-521	604.39	604.17	603.4	603.22	18	150	0.4	100	1.52	0.0309	0.8	0.83	0.8	11.4	0.011	HDPE
ZONE 235-3898	MH-2812	MH-163	576	575.5	574.43	574.31	15.8	150	0.6	128.8	1.3393	0.1581	1.2	1.42	1.04	24.2	0.011	HDPE
ZONE 235-1565	MH-5176	MH-3633	585.21	585.71	584.26	584.22	35.5	150	0.16	1,000.00	0.4807	0.0192	1.1	0.8	1.34	17.3	0.011	HDPE
ZONE 235-3639	MH-2517	MH-5177	583.23	582.8	582.09	581.8	35.5	150	0.6	122.993	1.3706	0.1511	0.9	1	0.86	23.5	0.011	HDPE
ZONE 235-1563	MH-2816	MH-1935	587.07	587.33	585.25	585.24	15.8	150	0.15	1,000.00	0.4807	0.0172	1.8	1.67	1.94	25.2	0.011	HDPE
ZONE 235-1747	MH-5179	MH-10	581.19	581.14	580.24	580.19	30.6	150	0.17	602.602	0.6192	0.0136	0.8	0.8	0.8	8.7	0.011	HDPE
ZONE 235-6498	MH-3434	MH-4057	582.05	581.89	581.1	580.94	24.1	150	0.33	149.948	1.2413	0.0256	0.8	0.8	0.8	11.2	0.011	HDPE
ZONE 235-1814	MH-3223	MH-3224	571.68	571.54	570.3	570.32	18.1	150	0.2	1,000.00	0.4807	0.0421	1.1	1.23	1.07	23.4	0.011	HDPE
ZONE 235-1528	MH-2874	MH-3228	588.68	588.92	587.7	587.53	18.1	150	0.6	106.183	1.4751	0.1273	1	0.84	1.24	23.5	0.011	HDPE
ZONE 235-5859	MH-4072	MH-3494	586.19	585.41	584.7	584.46	24.2	150	0.53	100	1.52	0.0777	1.1	1.33	0.8	16.5	0.011	HDPE
ZONE 235-3754	MH-891	MH-3242	580.3	580.05	579.07	578.96	18.1	150	0.26	161.234	1.1971	0.0137	1	1.08	0.94	8.1	0.011	HDPE
ZONE 235-1600	MH-3247	MH-3248	581.44	581.66	580.49	580.47	18.2	150	0.14	1,000.00	0.4807	0.0133	0.9	0.8	1.04	14.2	0.011	HDPE
ZONE 235-1821	MH-2856	MH-2857	572.05	572.29	571.1	571.25	16	150	0.26	100	1.52	0.0071	0.8	0.8	0.89	5.1	0.011	HDPE
ZONE 235-6495	MH-2860	MH-2861	582.78	582.56	581.77	581.61	16	150	0.28	100	1.52	0.0098	0.8	0.86	0.8	6	0.011	HDPE
ZONE 235-4420	MH-2862	MH-2863	598.48	598.8	597.53	597.69	16	150	0.37	100	1.52	0.0242	0.9	0.8	0.96	9.2	0.011	HDPE
ZONE 235-3935	MH-4472	MH-5215	579.92	580.25	578.97	579.3	36	150	0.4	109.857	1.4502	0.034	0.8	0.8	0.8	11	0.011	HDPE
ZONE 235-3776	MH-404	MH-5216	583.04	582.32	581.34	581.37	35.3	150	0.12	1,000.00	0.4807	0.0074	1.2	1.56	0.8	17.1	0.011	HDPE
ZONE 235-3791	MH-5217	MH-864	582.09	581.7	581.1	580.75	34.9	150	0.27	100	1.52	0.0079	0.8	0.84	0.8	13.4	0.011	HDPE
ZONE 235-3800	MH-758	MH-871	581.1	580.93	579.95	579.92	4.9	150	0.6	166.579	1.1777	0.2182	0.9	1	0.86	30.1	0.011	HDPE
ZONE 235-6779	MH-4090	MH-4091	558.32	558	556.07	555.99	24.3	1,100.00	2.25	300	182.2458	95.5515	1	1.16	0.91	69.3	0.011	HDPE
ZONE 235-1340	MH-4094	MH-4095	593.72	593.88	592.43	592.41	24.3	150	0.25	1,000.00	0.4807	0.09	1.2	1.14	1.32	30.6	0.011	HDPE
ZONE 235-1705	MH-2878	MH-2879	586.49	586.36	585.54	585.41	16.1	150	0.51	124.26	1.3636	0.0859	0.8	0.8	0.8	24.4	0.011	HDPE
ZONE 235-1487	MH-2382	MH-2882	588.34	588.31	586.36	586.46	16.2	150	0.6	151.554	1.2347	0.1958	1.8	1.83	1.69	28.7	0.011	HDPE
ZONE 235-1328	MH-2747	MH-3304	587.71	587.6	586.31	586.2	19.6	150	0.7	184.265	1.1198	0.4425	1.2	1.26	1.24	43.2	0.011	HDPE
ZONE 235-1800	MH-4111	MH-4112	574.41	574.32	572.72	572.56	24.5	150	0.52	150.196	1.2403	0.116	1.6	1.53	1.6	24.4	0.011	HDPE
ZONE 235-3971	MH-2899	MH-2900	564.23	564.32	563.28	563.27	9.2	150	0.09	1,000.00	0.4807	0.0035	0.8	0.8	0.9	16.1	0.011	HDPE
ZONE 235-2314	MH-2022	MH-3298	581.98	581.82	580.23	580.1	18.4	150	0.6	142.77	1.2721	0.1817	1.6	1.6	1.56	28	0.011	HDPE
ZONE 235-3960	MH-3290	MH-4126	564.83	564.9	563.88	563.95	24.5	150	0.31	328.003	0.8393	0.0541	0.8	0.8	0.8	17.2	0.011	HDPE
ZONE 235-3757	MH-67	MH-2914	579.67	579.22	578.26	578.27	11.6	150	0.1	1,000.00	0.4807	0.0048	1	1.26	0.8	12.9	0.011	HDPE
ZONE 235-4369	MH-3317	MH-1774	601.4	601.65	600.45	600.43	18.6	150	0.11	1,000.00	0.4807	0.0056	0.9	0.8	1.07	22.9	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3688	MH-4148	MH-4149	578.59	578.74	574.99	574.86	24.6	150	0.6	204.021	1.0642	0.2864	3.6	3.46	3.73	37.8	0.011	HDPE
ZONE 235-4063	MH-2940	MH-2941	571.5	571.07	570.28	570.12	16.5	150	0.54	100	1.52	0.0802	0.9	1.07	0.8	36.6	0.011	HDPE
ZONE 235-1476	MH-4156	MH-3774	588.68	588.67	587.73	587.71	24.7	150	0.2	1,000.00	0.4807	0.0436	0.8	0.8	0.81	16.7	0.011	HDPE
ZONE 235-1301	MH-2513	MH-2046	587.2	587.07	585.45	585.41	16.5	400	0.84	447.927	10.8033	2.6798	1.3	1.35	1.26	38	0.01	HDPE
ZONE 235-1304	MH-1570	MH-2943	586.68	586.45	585.08	585.06	16.5	400	0.64	1,000.00	7.2303	2.9264	1.1	1.2	0.99	36.4	0.01	HDPE
ZONE 235-6001	MH-2642	MH-1094	579.16	578.73	577.94	577.78	16.5	150	0.73	100	1.52	0.2362	0.9	1.07	0.8	28.9	0.011	HDPE
ZONE 235-1480	MH-2945	MH-2309	588.48	588.46	587.53	587.48	16.5	150	0.25	315.507	0.8557	0.0244	0.8	0.8	0.83	14.6	0.011	HDPE
ZONE 235-4598	MH-2963	MH-2964	589.95	590.32	588.75	588.91	16.6	400	1.59	100	20.7858	4.9242	0.9	0.8	1.01	37.6	0.011	HDPE
ZONE 235-4664	MH-3349	MH-3350	607.66	607.27	604.81	604.9	18.7	150	0.6	205.754	1.0597	0.2895	2.5	2.7	2.22	37.7	0.011	HDPE
ZONE 235-1538	MH-2971	MH-2210	585.47	585.26	583.86	583.84	16.6	150	0.24	1,000.00	0.4807	0.086	1.4	1.46	1.27	23.4	0.011	HDPE
ZONE 235-3786	MH-865	MH-1365	581.69	581.5	580.66	580.55	10.5	150	0.48	100	1.52	0.0536	0.8	0.88	0.8	15.5	0.011	HDPE
ZONE 235-4416	MH-3369	MH-3370	596.57	597.05	595.62	595.81	19	150	0.99	100	1.672	0.5304	0.9	0.8	1.09	43	0.01	HDPE
ZONE 235-3831	MH-3372	MH-203	581.14	580.92	580.16	579.97	19	150	0.7	100	1.52	0.2035	0.8	0.83	0.8	37.1	0.011	HDPE
ZONE 235-1871	MH-710	MH-614	565.65	565.91	564.67	564.76	8.8	175	1.08	100	2.5221	0.7558	0.9	0.8	0.97	53.3	0.01	HDPE
ZONE 235-4994	MH-3378	MH-374	583.38	583.74	582.43	582.42	19.3	150	0.18	1,000.00	0.4807	0.0285	1	0.8	1.17	21.2	0.011	HDPE
ZONE 235-5824	MH-3392	MH-4802	580.68	580.7	579.55	579.32	33.7	150	0.6	146.328	1.2566	0.1871	1.1	0.98	1.23	28.6	0.011	HDPE
ZONE 235-5087	MH-5051	MH-1216	563.53	563.49	562.41	562.47	33.7	217	0.6	584.873	1.8508	0.999	0.9	0.91	0.8	47.4	0.01	HDPE
ZONE 235-4583	MH-3012	MH-2778	602.67	602.61	601.38	601.4	16.9	150	0.18	1,000.00	0.4807	0.0292	1.1	1.13	1.05	17.6	0.011	HDPE
ZONE 235-5823	MH-3391	MH-3392	580.82	580.68	579.71	579.55	19.1	150	0.6	120.76	1.3832	0.1475	1	0.97	0.98	26.2	0.011	HDPE
ZONE 235-6014	MH-1175	MH-3025	580.1	580.29	578.86	578.84	17	150	0.19	1,000.00	0.4807	0.0376	1.2	1.09	1.29	20.2	0.011	HDPE
ZONE 235-1455	MH-3405	MH-1802	589.95	589.58	586.98	586.96	19.2	271	0.6	953.52	2.6217	2.1858	2.5	2.69	2.35	61.4	0.01	HDPE
ZONE 235-3606	MH-322	MH-3041	577.87	578.03	575.29	575.23	15.1	150	0.6	252.716	0.9562	0.3784	2.5	2.43	2.65	41.6	0.011	HDPE
ZONE 235-5853	MH-3420	MH-3421	583.66	583.06	582.31	582.11	19.4	150	0.8	100	1.52	0.3134	1	1.21	0.8	37.5	0.011	HDPE
ZONE 235-1971	MH-3866	MH-4753	587.86	588.3	585.96	586.14	34.2	150	0.6	189.578	1.104	0.258	1.9	1.76	2.01	33.3	0.011	HDPE
ZONE 235-3972	MH-2900	MH-3051	564.32	564.41	563.27	563.25	17.1	150	0.18	1,000.00	0.4807	0.0333	1	0.9	1	22.6	0.011	HDPE
ZONE 235-2311	MH-3773	MH-3923	582.45	582.16	581.19	581.21	23.1	150	0.2	1,000.00	0.4807	0.0478	1	1.11	0.8	26.3	0.011	HDPE
ZONE 235-1277	MH-4961	MH-4060	593.47	593.06	591.4	591.34	34.3	217	0.6	640.465	1.7687	1.1532	1.7	1.86	1.5	56	0.01	HDPE
ZONE 235-4950	MH-323	MH-3935	590.43	590.75	589.48	589.72	23.4	150	0.92	100	1.52	0.5266	0.8	0.8	0.88	43.8	0.011	HDPE
ZONE 235-1482	MH-2310	MH-3774	588.53	588.67	587.47	587.44	23.2	150	0.19	1,000.00	0.4807	0.0376	1	0.92	1.08	24.7	0.011	HDPE
ZONE 235-6623	MH-3938	MH-3939	592.96	592.7	591.73	591.5	23.2	400	1.54	100	20.7858	4.3793	0.8	0.83	0.8	35.3	0.011	HDPE
ZONE 235-1426	MH-2720	MH-5103	592.84	592.49	591.54	591.21	34.6	150	0.6	103.801	1.4919	0.1246	1.1	1.14	1.13	24.1	0.011	HDPE
ZONE 235-1601	MH-3248	MH-3714	581.66	581.95	580.47	580.45	23.4	150	0.16	1,000.00	0.4807	0.0214	1.2	1.04	1.35	23.6	0.011	HDPE
ZONE 235-4975	MH-3100	MH-3101	580.97	581	580.02	580	17.3	150	0.15	1,000.00	0.4807	0.0169	0.8	0.8	0.85	14.1	0.011	HDPE
ZONE 235-3949	MH-1445	MH-3965	577.9	577.82	576.85	576.87	25.7	150	0.14	1,000.00	0.4807	0.0142	0.8	0.9	0.8	9.6	0.011	HDPE
ZONE 235-5851	MH-3644	MH-4535	585.6	584.53	583.93	583.58	34.7	150	0.77	100	1.52	0.2727	1.2	1.52	0.8	31	0.011	HDPE
ZONE 235-1678	MH-3969	MH-3970	587.63	587.45	586.68	586.47	23.5	150	0.38	109.15	1.4549	0.0273	0.8	0.8	0.83	11.5	0.011	HDPE
ZONE 235-6003	MH-3110	MH-2256	578.25	577.81	577.03	576.86	17.4	150	0.84	100	1.52	0.3697	0.9	1.07	0.8	36.3	0.011	HDPE
ZONE 235-4746	MH-3111	MH-3112	594.35	593.91	593.21	592.96	24.7	150	0.5	100	1.52	0.0645	0.9	0.99	0.8	15	0.011	HDPE
ZONE 235-1533	MH-3624	MH-3625	586.31	586.08	584.19	584.17	21.1	150	0.25	1,000.00	0.4807	0.0939	1.9	1.96	1.75	24.5	0.011	HDPE
ZONE 235-4578	MH-2761	MH-2542	601.99	602.06	600.69	600.67	17.4	150	0.19	1,000.00	0.4807	0.0361	1.2	1.15	1.24	24.6	0.011	HDPE
ZONE 235-5840	MH-1513	MH-3114	582.58	582.43	581.38	581.23	17.5	400	1.42	117.429	19.1813	4.0339	0.8	0.8	0.8	38.3	0.011	HDPE
ZONE 235-3609	MH-3115	MH-3116	576.43	576.97	575.48	575.46	17.5	150	0.12	1,000.00	0.4807	0.0071	1.1	0.8	1.36	8	0.011	HDPE
ZONE 235-48	MH-4000	MH-2466	582.92	582.6	581.89	581.65	23.7	150	0.56	100	1.52	0.0924	0.8	0.88	0.8	17.9	0.011	HDPE
ZONE 235-4862	MH-5159	MH-5160	602.24	602.32	601.29	601.37	35.3	150	0.25	412.303	0.7486	0.0332	0.8	0.8	0.8	18	0.011	HDPE
ZONE 235-4972	MH-2949	MH-3464	581.25	581	577.55	577.46	24.1	150	0.6	272.837	0.9202	0.4208	3.5	3.55	3.39	48.3	0.011	HDPE
ZONE 235-24	MH-31	MH-5101	579.23	578.78	576.21	576.25	35.4	150	0.25	1,000.00	0.4807	0.096	2.6	2.87	2.38	26	0.011	HDPE
ZONE 235-1579	MH-4032	MH-1810	583.54	583.92	582.59	582.57	24	150	0.16	1,000.00	0.4807	0.0226	1	0.8	1.2	19.1	0.011	HDPE
ZONE 235-1584	MH-3179	MH-3180	585.68	585.48	584.62	584.46	17.8	150	0.78	111.706	1.4382	0.3289	0.9	0.91	0.87	37.6	0.011	HDPE
ZONE 235-1349	MH-4046	MH-4047	592.31	592.51	591.35	591.56	24	150	0.6	110.906	1.4434	0.1332	0.8	0.81	0.8	21.8	0.011	HDPE
ZONE 235-5065	MH-5184	MH-5185	562.74	562.49	561.73	561.48	35.7	217	1.13	142.716	3.7468	1.5353	0.8	0.8	0.8	61.2	0.01	HDPE
ZONE 235-3699	MH-5191	MH-5192	580.41	580.65	579.46	579.45	14.2	150	0.15	1,000.00	0.4807	0.018	0.9	0.8	1.05	14.2	0.011	HDPE
ZONE 235-1278	MH-4060	MH-4061	593.06	592.61	591.34	591.3	24.1	217	0.66	505.113	1.9916	1.1687	1.3	1.5	1.09	49.5	0.01	HDPE
ZONE 235-3848	MH-983	MH-196	580.99	580.77	579.88	579.82	5.5	150	0.45	100	1.52	0.044	0.9	0.96	0.8	16.4	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4936	MH-4084	MH-4085	587.01	587.02	585.85	585.82	24.3	150	0.22	1,000.00	0.4807	0.0586	1	1.02	1.05	19.6	0.011	HDPE
ZONE 235-6581	MH-3429	MH-3430	565.68	565.76	564.73	564.57	19.4	150	0.6	125.379	1.3575	0.1555	0.9	0.8	1.04	36.1	0.011	HDPE
ZONE 235-5843	MH-4098	MH-2752	581.92	581.72	580.72	580.52	24.4	400	1.43	119.936	18.9798	4.2065	0.8	0.8	0.8	39.1	0.011	HDPE
ZONE 235-6500	MH-4099	MH-3784	583.02	582.7	581.99	581.75	24.4	150	0.33	100	1.52	0.0162	0.8	0.88	0.8	7.6	0.011	HDPE
ZONE 235-5013	MH-2616	MH-4100	585.38	585.03	584.32	584.08	24.4	150	0.78	100	1.52	0.2883	0.9	0.91	0.8	31.9	0.011	HDPE
ZONE 235-6485	MH-3263	MH-3264	581.97	581.84	581.02	580.89	18.3	150	0.33	141.335	1.2786	0.0254	0.8	0.8	0.8	10.6	0.011	HDPE
ZONE 235-4287	MH-3441	MH-111	599.64	599.8	598.41	598.25	19.6	150	0.6	124.063	1.3647	0.1531	1.2	1.08	1.4	23.7	0.011	HDPE
ZONE 235-4148	MH-3442	MH-583	566.95	567.18	566	565.82	19.3	150	0.4	105.661	1.4787	0.0321	1	0.8	1.21	17.7	0.011	HDPE
ZONE 235-4955	MH-4109	MH-4110	587.72	588.1	586.77	587.01	24.4	150	0.43	100	1.52	0.0389	0.9	0.8	0.94	15	0.011	HDPE
ZONE 235-4995	MH-611	MH-3272	585.57	585.81	581.88	581.77	18.3	150	0.6	164.913	1.1836	0.2158	3.7	3.54	3.89	30.5	0.011	HDPE
ZONE 235-1333	MH-3274	MH-2747	587.71	587.71	586.72	586.7	18.3	150	0.19	1,000.00	0.4807	0.0405	0.9	0.84	0.86	16.1	0.011	HDPE
ZONE 235-6571	MH-3881	MH-4115	564.72	564.53	563.77	563.57	24.5	150	0.92	124.014	1.3649	0.7057	0.8	0.8	0.81	58.2	0.011	HDPE
ZONE 235-5777	MH-4117	MH-4118	571.06	570.19	569.48	569.24	24.5	150	0.67	100	1.52	0.1681	1.1	1.43	0.8	24.2	0.011	HDPE
ZONE 235-3958	MH-366	MH-3290	564.68	564.83	563.73	563.88	18.7	150	0.49	122.437	1.3737	0.0741	0.8	0.8	0.8	18.4	0.011	HDPE
ZONE 235-6418	MH-4130	MH-4131	563.31	563.27	561.65	561.62	24.5	271	0.6	870.281	2.7442	1.8309	1.4	1.39	1.38	60.7	0.01	HDPE
ZONE 235-1672	MH-3957	MH-4136	585.55	585.25	584.55	584.3	24.6	150	0.35	100	1.52	0.0181	0.8	0.85	0.8	8	0.011	HDPE
ZONE 235-4346	MH-2153	MH-3305	602.54	602.14	601.48	601.19	29.3	150	0.55	100	1.52	0.0856	0.9	0.92	0.8	17.3	0.011	HDPE
ZONE 235-4348	MH-216	MH-207	601.86	602.25	600.91	601.2	29.4	150	0.34	100	1.52	0.0179	0.9	0.8	0.9	11	0.011	HDPE
ZONE 235-3769	MH-920	MH-1364	581.25	581.44	580.3	580.38	7.7	150	0.51	100	1.52	0.0687	0.9	0.8	0.91	21	0.011	HDPE
ZONE 235-1586	MH-4158	MH-3536	585.15	584.79	584.09	583.84	24.7	150	0.83	100	1.52	0.3538	0.9	0.91	0.8	35.5	0.011	HDPE
ZONE 235-1523	MH-3489	MH-3057	588.86	588.56	587.81	587.61	19.9	150	0.43	100	1.52	0.0381	0.8	0.9	0.8	11.6	0.011	HDPE
ZONE 235-6496	MH-2861	MH-3327	582.56	582.31	581.55	581.36	18.7	150	0.32	100	1.52	0.0146	0.8	0.86	0.8	7.2	0.011	HDPE
ZONE 235-1534	MH-3328	MH-3329	584.92	585.02	583.97	583.95	18.7	150	0.15	1,000.00	0.4807	0.0183	0.9	0.8	0.92	15	0.011	HDPE
ZONE 235-94	MH-3330	MH-3331	580.78	580.48	579.64	579.46	18.7	217	1.32	100	4.476	1.6531	0.9	0.92	0.8	47.4	0.01	HDPE
ZONE 235-1326	MH-5026	MH-5027	587.48	587.59	586.39	586.36	33.3	150	0.18	1,000.00	0.4807	0.0334	1	0.93	1.08	20.5	0.011	HDPE
ZONE 235-5806	MH-3231	MH-3337	576.73	576.45	575.68	575.5	18.7	150	0.61	100	1.52	0.1247	0.8	0.9	0.8	20.9	0.011	HDPE
ZONE 235-109	MH-5030	MH-1135	579.35	578.83	578.21	577.88	33.3	150	1.08	100	1.52	0.9735	0.9	0.99	0.8	61.4	0.011	HDPE
ZONE 235-4136	MH-5032	MH-5033	566.48	565.85	562.95	562.88	33.4	217	0.6	509.167	1.9836	0.8108	3	3.32	2.75	44.6	0.01	HDPE
ZONE 235-1336	MH-3509	MH-3304	587.61	587.6	586.55	586.53	20.1	150	0.2	1,000.00	0.4807	0.0448	0.9	0.91	0.92	16.9	0.011	HDPE
ZONE 235-4155	MH-4905	MH-4527	567.12	567.51	565.35	565.31	33.8	150	0.26	1,000.00	0.4807	0.1051	1.8	1.63	2.04	27.4	0.011	HDPE
ZONE 235-1578	MH-2147	MH-1811	583.68	584.06	582.42	582.38	33.4	150	0.18	1,000.00	0.4807	0.0293	1.3	1.11	1.52	24.1	0.011	HDPE
ZONE 235-3623	MH-5036	MH-3926	581.02	581.66	580.07	580.41	33.5	150	0.67	100	1.52	0.1731	1	0.8	1.11	24.6	0.011	HDPE
ZONE 235-1772	MH-162	MH-147	570.56	570.36	569.56	569.41	15.1	150	0.85	100	1.52	0.3953	0.8	0.84	0.8	37.6	0.011	HDPE
ZONE 235-1484	MH-3532	MH-3395	588.5	588.43	586.04	586.16	20.3	150	0.6	171.972	1.1591	0.2298	2.2	2.31	2.12	31.2	0.011	HDPE
ZONE 235-1690	MH-5048	MH-5049	586.67	586.41	585.72	585.46	33.7	150	0.28	127.4	1.3467	0.0121	0.8	0.8	0.8	8.6	0.011	HDPE
ZONE 235-4326	MH-77	MH-201	599.74	599.99	598.79	598.97	18.8	150	0.74	100	1.52	0.2369	0.8	0.8	0.86	31.6	0.011	HDPE
ZONE 235-4715	MH-3374	MH-3375	592.99	592.73	591.72	591.53	19	400	1.52	100	22.8644	3.2834	0.8	0.87	0.8	34.6	0.01	HDPE
ZONE 235-71	MH-2606	MH-2974	580.08	579.6	578.84	578.65	19	150	0.54	100	1.52	0.0814	0.9	1.09	0.8	16.9	0.011	HDPE
ZONE 235-6465	MH-3393	MH-2215	580.41	580.51	579.46	579.44	19.1	150	0.15	1,000.00	0.4807	0.0178	0.9	0.8	0.92	15.5	0.011	HDPE
ZONE 235-1603	MH-3565	MH-3566	582.1	582.35	581.15	581.13	20.5	150	0.19	1,000.00	0.4807	0.0349	0.9	0.8	1.07	19.1	0.011	HDPE
ZONE 235-4987	MH-5073	MH-5074	584.34	583.91	583.39	582.96	122	150	0.74	284.671	0.991	0.8129	0.8	0.8	0.8	66.6	0.01	HDPE
ZONE 235-1575	MH-4328	MH-3014	584.58	585.05	582.35	582.05	34	150	0.6	114.22	1.4223	0.138	2.5	2.09	2.85	26.7	0.011	HDPE
ZONE 235-4147	MH-584	MH-391	567.19	567.56	565.8	565.79	16.7	150	0.23	1,000.00	0.4807	0.0717	1.4	1.24	1.62	21.4	0.011	HDPE
ZONE 235-1608	MH-1396	MH-5076	585.33	584.85	581.48	581.29	34.1	150	0.6	179.342	1.135	0.2423	3.6	3.7	3.41	31.9	0.011	HDPE
ZONE 235-5760	MH-5077	MH-2360	573.62	572.88	572.28	571.93	34.1	150	0.96	100	1.52	0.6078	1	1.19	0.8	47.3	0.011	HDPE
ZONE 235-3857	MH-3580	MH-68	579.3	579.67	578.24	578.26	22.9	150	0.18	1,000.00	0.4807	0.0283	1.1	0.92	1.26	19.4	0.011	HDPE
ZONE 235-1514	MH-5087	MH-4652	588.59	588.45	587.64	587.5	34.3	150	0.24	237.402	0.9865	0.0155	0.8	0.8	0.8	8.2	0.011	HDPE
ZONE 235-4749	MH-5089	MH-616	594.59	593.82	593.21	592.87	34.4	150	0.7	100	1.52	0.199	1	1.23	0.8	26.4	0.011	HDPE
ZONE 235-5846	MH-3929	MH-3930	588.88	588.23	587.51	587.28	23.2	150	0.54	100	1.52	0.0807	1	1.22	0.8	16.8	0.011	HDPE
ZONE 235-1531	MH-3933	MH-3934	586.54	586.1	585.38	585.15	23.2	150	0.32	100	1.52	0.0149	0.9	1.01	0.8	7.3	0.011	HDPE
ZONE 235-6565	MH-5093	MH-5094	567.32	567.15	566.37	566.2	34.4	150	0.33	211.588	1.045	0.0399	0.8	0.8	0.8	18.5	0.011	HDPE
ZONE 235-25	MH-5101	MH-5102	578.78	578.6	576.25	576.28	34.5	150	0.21	1,000.00	0.4807	0.0555	2.3	2.38	2.17	26.4	0.011	HDPE
ZONE 235-1582	MH-3942	MH-3943	586.42	586.17	584.91	584.8	23.2	150	0.6	210.257	1.0483	0.2938	1.3	1.36	1.22	36.3	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1292	MH-3944	MH-3945	588.68	588.58	586.9	586.88	23.3	271	0.6	895.836	2.7048	1.927	1.5	1.5	1.43	50.3	0.01	HDPE
ZONE 235-87	MH-3947	MH-919	581.46	581.24	580.51	580.29	22.6	150	0.33	100.039	1.5197	0.017	0.8	0.8	0.8	7.8	0.011	HDPE
ZONE 235-56	MH-2414	MH-1686	581.33	581.06	580.32	580.11	21	150	0.33	100	1.52	0.0167	0.8	0.86	0.8	8.6	0.011	HDPE
ZONE 235-4448	MH-3950	MH-270	598.07	597.91	597.12	596.96	23.3	150	0.23	144.45	1.2647	0.0076	0.8	0.8	0.8	5.5	0.011	HDPE
ZONE 235-5095	MH-3175	MH-3645	566.04	565.48	564.88	564.53	34.7	150	1.03	100	1.52	0.8037	0.9	1.01	0.8	55.1	0.011	HDPE
ZONE 235-35	MH-3966	MH-620	579.62	579.65	578.67	578.65	23.7	150	0.21	1,000.00	0.4807	0.0559	0.8	0.8	0.85	18.9	0.011	HDPE
ZONE 235-4450	MH-3971	MH-665	597.16	596.86	596.14	595.91	23.5	150	0.31	100	1.52	0.0132	0.8	0.87	0.8	11.3	0.011	HDPE
ZONE 235-4451	MH-416	MH-3972	596.32	596.71	595.37	595.61	23.5	150	0.32	100	1.52	0.0144	0.9	0.8	0.95	7.2	0.011	HDPE
ZONE 235-1392	MH-5133	MH-5015	590.24	589.29	588.69	588.34	35	150	0.41	100	1.52	0.0329	1.1	1.41	0.8	10.8	0.011	HDPE
ZONE 235-3659	MH-4769	MH-5134	580.65	581.04	578.52	578.32	35	150	0.6	169.412	1.1678	0.2258	2.3	1.98	2.57	31.8	0.011	HDPE
ZONE 235-5856	MH-5140	MH-5141	589.37	588.45	587.85	587.5	35	150	0.31	100	1.52	0.0134	1.1	1.37	0.8	7	0.011	HDPE
ZONE 235-4943	MH-3984	MH-3985	586.13	586.67	585.11	585.09	23.6	150	0.26	1,000.00	0.4807	0.1116	1.2	0.87	1.43	30.5	0.011	HDPE
ZONE 235-6553	MH-2242	MH-3217	571.49	571.21	569.71	569.73	23.6	150	0.19	1,000.00	0.4807	0.038	1.5	1.63	1.33	21.3	0.011	HDPE
ZONE 235-1337	MH-3990	MH-3991	593.5	593.46	592.55	592.51	23.6	150	0.2	712.102	0.5696	0.0305	0.8	0.8	0.8	18.6	0.011	HDPE
ZONE 235-5011	MH-4002	MH-2615	585.71	585.55	584.76	584.58	23.7	150	0.67	128.007	1.3435	0.2346	0.8	0.8	0.82	32.1	0.011	HDPE
ZONE 235-4999	MH-4011	MH-373	583.65	583.74	582.7	582.69	13	150	0.13	1,000.00	0.4807	0.0116	0.8	0.8	0.89	11.2	0.011	HDPE
ZONE 235-4347	MH-3305	MH-215	602.14	601.85	601.03	600.9	12.3	150	0.56	100	1.52	0.0938	0.9	0.96	0.8	24.5	0.011	HDPE
ZONE 235-1478	MH-4015	MH-4016	588.62	588.55	587.67	587.6	23.8	150	0.17	327.053	0.8405	0.0072	0.8	0.8	0.8	8.6	0.011	HDPE
ZONE 235-1540	MH-5167	MH-5113	585.68	585.94	584.3	584.26	35.4	150	0.19	1,000.00	0.4807	0.0344	1.4	1.23	1.53	20.2	0.011	HDPE
ZONE 235-6417	MH-5172	MH-4130	563.79	563.31	562.71	562.36	35.5	150	0.74	100	1.52	0.2436	0.9	0.93	0.8	29.3	0.011	HDPE
ZONE 235-1966	MH-4033	MH-4034	587.87	587.39	586.68	586.44	24	150	0.42	100	1.52	0.0352	0.9	1.04	0.8	11.1	0.011	HDPE
ZONE 235-1620	MH-3390	MH-4035	584.59	584.92	583.64	583.88	24	150	0.25	100	1.52	0.0065	0.8	0.8	0.89	4.9	0.011	HDPE
ZONE 235-5836	MH-3577	MH-3816	581.33	581.2	580.38	580.25	24	150	0.32	185.566	1.1158	0.0305	0.8	0.8	0.8	13.1	0.011	HDPE
ZONE 235-1424	MH-2720	MH-4051	592.84	592.69	591.54	591.57	24.1	150	0.22	1,000.00	0.4807	0.0652	1.1	1.14	0.97	23.6	0.011	HDPE
ZONE 235-4570	MH-4052	MH-4053	596.44	595.6	593.16	593.35	29.1	150	0.6	152.796	1.2297	0.1981	2.6	3.13	2.1	29.2	0.011	HDPE
ZONE 235-1270	MH-5206	MH-4550	594.58	594.4	591.72	591.66	35.8	217	0.6	581.939	1.8555	0.9879	2.6	2.64	2.52	52.3	0.01	HDPE
ZONE 235-4178	MH-1659	MH-4062	600.17	600.73	599.22	599.46	24.1	150	0.27	100	1.52	0.0082	1	0.8	1.11	5.5	0.011	HDPE
ZONE 235-5999	MH-1296	MH-2641	580.5	579.55	578.82	578.59	35.9	150	0.6	154.714	1.222	0.2016	1.2	1.53	0.81	28	0.011	HDPE
ZONE 235-1624	MH-3495	MH-2738	584.43	584.07	582.92	582.94	24.2	150	0.14	1,000.00	0.4807	0.0121	1.2	1.36	0.97	20.1	0.011	HDPE
ZONE 235-5767	MH-3433	MH-1435	573.21	572.57	571.75	571.56	19.5	217	1.3	100	4.476	1.56	1	1.24	0.8	46	0.01	HDPE
ZONE 235-4508	MH-4093	MH-2631	604.62	604.1	602.79	602.81	23.4	150	0.18	1,000.00	0.4807	0.0294	1.4	1.68	1.14	13.7	0.011	HDPE
ZONE 235-1961	MH-3444	MH-3445	588.46	588.23	587.26	587.28	19.7	150	0.18	1,000.00	0.4807	0.0325	0.9	1.04	0.8	19.3	0.011	HDPE
ZONE 235-4464	MH-27	MH-2558	599.65	599.2	598.49	598.25	24.4	150	0.47	100	1.52	0.0526	0.9	1.01	0.8	13.6	0.011	HDPE
ZONE 235-3772	MH-4101	MH-3763	584.18	583.56	582.83	582.61	21.9	150	0.59	100	1.52	0.1105	1	1.2	0.8	19.6	0.011	HDPE
ZONE 235-5775	MH-2913	MH-3453	572.72	571.98	571.23	571.03	19.7	150	0.61	100	1.52	0.1276	1.1	1.34	0.8	21.1	0.011	HDPE
ZONE 235-6439	MH-3456	MH-3457	563.4	563.37	561.89	561.85	19.7	175	0.6	493.866	1.1349	0.7857	1.3	1.33	1.34	53.9	0.01	HDPE
ZONE 235-1680	MH-3970	MH-417	587.45	587.17	586.47	586.22	24.5	150	0.44	100	1.52	0.0406	0.8	0.83	0.8	13.1	0.011	HDPE
ZONE 235-6508	MH-3467	MH-3468	581.79	581.6	580.84	580.65	19.8	150	0.44	108.417	1.4598	0.047	0.8	0.8	0.8	14.5	0.011	HDPE
ZONE 235-1272	MH-4129	MH-3731	594.26	594.16	591.61	591.57	24.5	217	0.6	613.558	1.807	1.0733	2.4	2.43	2.36	55	0.01	HDPE
ZONE 235-6660	MH-4132	MH-4133	603.18	603.1	602.23	602.15	24.5	150	0.27	296.991	0.882	0.0274	0.8	0.8	0.8	11.2	0.011	HDPE
ZONE 235-4126	MH-4134	MH-363	566.98	567.43	563.98	563.88	15.5	150	0.6	159.631	1.2031	0.207	3.1	2.85	3.4	29.6	0.011	HDPE
ZONE 235-1969	MH-2451	MH-3865	587.67	587.82	585.72	585.84	24.6	150	0.6	202.999	1.0668	0.2845	1.8	1.8	1.83	35.6	0.011	HDPE
ZONE 235-6577	MH-3490	MH-2607	568.43	568.77	567.48	567.68	19.9	150	0.28	100	1.52	0.0098	0.9	0.8	0.94	6	0.011	HDPE
ZONE 235-5860	MH-3494	MH-3203	585.41	584.76	584.01	583.81	20	150	0.55	100	1.52	0.0892	1	1.25	0.8	17.6	0.011	HDPE
ZONE 235-1622	MH-1706	MH-3495	584.22	584.43	582.9	582.92	20	150	0.23	1,000.00	0.4807	0.0758	1.3	1.16	1.36	29.2	0.011	HDPE
ZONE 235-5828	MH-4157	MH-3500	581.5	581.48	579.59	579.46	24.7	150	0.6	181.673	1.1277	0.2465	1.8	1.76	1.87	32.8	0.011	HDPE
ZONE 235-1595	MH-3833	MH-3714	582.28	581.95	580.52	580.38	24.7	217	0.91	179.734	3.3387	0.9414	1.4	1.54	1.35	45.7	0.01	HDPE
ZONE 235-5829	MH-3500	MH-3173	581.48	581.46	579.46	579.35	20	150	0.6	197.483	1.0816	0.2713	1.9	1.87	1.96	34.7	0.011	HDPE
ZONE 235-47	MH-5023	MH-4000	583.45	582.92	582.3	581.97	33.2	150	0.54	100	1.52	0.0805	0.9	1	0.8	16.8	0.011	HDPE
ZONE 235-5166	MH-5024	MH-4490	561.76	560.83	560.21	559.88	33.2	150	0.78	100	1.52	0.29	1.1	1.4	0.8	37.4	0.011	HDPE
ZONE 235-1381	MH-4919	MH-4950	590.77	589.94	589.32	588.99	33.2	150	0.48	100	1.52	0.0536	1	1.29	0.8	13.7	0.011	HDPE
ZONE 235-6507	MH-3507	MH-3467	582	581.79	581.04	580.84	20.1	150	0.43	100	1.52	0.0374	0.8	0.81	0.8	13	0.011	HDPE
ZONE 235-3759	MH-3508	MH-753	579.96	580.36	579.01	579.21	19.9	150	0.74	100	1.52	0.2406	0.9	0.8	1	29.1	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-5765	MH-5025	MH-3433	574.32	573.21	572.52	572.19	33.2	217	1.29	100	4.476	1.5424	1.2	1.59	0.8	45.7	0.01	HDPE
ZONE 235-3884	MH-4588	MH-5028	577.79	577.57	576.01	575.74	33.7	150	0.6	126.216	1.353	0.1571	1.7	1.63	1.67	26.1	0.011	HDPE
ZONE 235-5816	MH-3852	MH-2898	582.45	581.65	581.03	580.7	33.3	150	0.56	100	1.52	0.0948	1	1.27	0.8	18.2	0.011	HDPE
ZONE 235-46	MH-4241	MH-5023	584.07	583.45	582.83	582.5	33.3	150	0.51	100	1.52	0.0668	0.9	1.09	0.8	15.3	0.011	HDPE
ZONE 235-4124	MH-5019	MH-4795	566.29	566.66	564.47	564.19	33.4	150	0.6	119.472	1.3906	0.1456	2	1.66	2.31	25.7	0.011	HDPE
ZONE 235-1359	MH-3667	MH-3648	591.87	592.21	590.63	590.59	33.5	150	0.15	1,000.00	0.4807	0.0157	1.3	1.09	1.47	10	0.011	HDPE
ZONE 235-5838	MH-3817	MH-1277	581.13	580.85	580.18	579.9	33.5	150	0.46	120.598	1.3841	0.0617	0.8	0.8	0.8	19.4	0.011	HDPE
ZONE 235-1519	MH-3801	MH-2873	589.1	588.66	588.05	587.71	33.6	150	0.49	100	1.52	0.058	0.8	0.9	0.8	22.7	0.011	HDPE
ZONE 235-5842	MH-3114	MH-4776	582.43	582.16	581.23	580.96	33.7	400	1.38	126.835	18.4564	4.0461	0.8	0.8	0.8	38.3	0.011	HDPE
ZONE 235-4949	MH-312	MH-5046	587.07	587.18	586.12	586.23	38.8	150	0.25	348.28	0.8145	0.0265	0.8	0.8	0.8	13.9	0.011	HDPE
ZONE 235-5820	MH-5057	MH-1276	580.93	580.86	579.98	579.91	33.8	150	0.27	490.98	0.686	0.0519	0.8	0.8	0.8	19.5	0.011	HDPE
ZONE 235-4318	MH-3584	MH-906	601.61	601.53	599.98	600	20.7	150	0.22	1,000.00	0.4807	0.065	1.4	1.48	1.38	23.2	0.011	HDPE
ZONE 235-1501	MH-5075	MH-4372	588.64	588.38	587.6	587.34	34	150	0.6	131.424	1.3259	0.1643	0.9	0.89	0.89	29.2	0.011	HDPE
ZONE 235-1959	MH-437	MH-3444	588.7	588.46	587.23	587.26	38.8	150	0.2	1,000.00	0.4807	0.0482	1.2	1.33	1.04	17.5	0.011	HDPE
ZONE 235-4938	MH-4756	MH-3985	586.54	586.67	585.59	585.56	34.5	150	0.23	1,000.00	0.4807	0.0762	0.9	0.8	0.96	22.1	0.011	HDPE
ZONE 235-4785	MH-5081	MH-5082	601.86	601.25	599.77	599.67	36.7	175	0.64	366.112	1.3181	0.6471	1.7	1.92	1.41	47.1	0.01	HDPE
ZONE 235-4503	MH-760	MH-451	602.97	603.01	600.77	600.67	39.4	150	0.6	364.182	0.8762	0.4895	2.1	2.04	2.19	49.2	0.01	HDPE
ZONE 235-1569	MH-5086	MH-4328	584.99	584.58	583.97	583.63	34.3	150	0.29	100	1.52	0.0105	0.8	0.86	0.8	6.2	0.011	HDPE
ZONE 235-3955	MH-2409	MH-239	565.3	565.13	564.35	564.18	24.1	150	0.4	143.616	1.2684	0.0473	0.8	0.8	0.8	13.4	0.011	HDPE
ZONE 235-4611	MH-3611	MH-804	593.11	593.47	591.47	591.55	20.9	150	0.6	282.529	0.9043	0.4441	1.6	1.48	1.77	50.1	0.011	HDPE
ZONE 235-3618	MH-568	MH-3041	578.67	578.03	576.58	576.5	38.5	175	0.6	470.484	1.1628	0.722	1.6	1.92	1.36	51	0.01	HDPE
ZONE 235-1522	MH-3618	MH-3489	589.03	588.86	588.08	587.91	21	150	0.32	123.637	1.367	0.0179	0.8	0.8	0.8	8.2	0.011	HDPE
ZONE 235-6720	MH-5104	MH-4974	565.82	565.56	563.66	563.63	34.8	400	0.65	1,000.00	6.573	4.189	1.6	1.76	1.53	46	0.011	HDPE
ZONE 235-1500	MH-5106	MH-5075	588.86	588.64	587.91	587.6	34.6	150	0.6	109.37	1.4535	0.1311	0.8	0.8	0.89	24.6	0.011	HDPE
ZONE 235-3866	MH-727	MH-812	581.54	581.32	580.36	580.35	8	150	0.15	1,000.00	0.4807	0.0155	0.9	1.03	0.83	12.5	0.011	HDPE
ZONE 235-3888	MH-5109	MH-477	577.39	577.79	576.44	576.15	34.7	150	0.38	120.426	1.3851	0.0322	1.1	0.8	1.49	21.8	0.011	HDPE
ZONE 235-3673	MH-703	MH-5114	580.56	580.94	579.61	579.94	33.6	150	0.42	100	1.52	0.035	0.8	0.8	0.84	11.1	0.011	HDPE
ZONE 235-1744	MH-5016	MH-2426	581.02	580.97	580.06	580.02	34.7	150	0.2	850.116	0.5213	0.0356	0.8	0.81	0.8	14.7	0.011	HDPE
ZONE 235-5864	MH-4231	MH-4098	582.66	581.92	581.32	580.97	34.8	150	0.63	100	1.52	0.1377	1	1.19	0.8	21.9	0.011	HDPE
ZONE 235-4481	MH-91	MH-5120	598.64	598.45	597.6	597.43	71.1	217	0.68	422.435	2.1778	1.0273	0.8	0.82	0.8	44.7	0.01	HDPE
ZONE 235-4241	MH-5121	MH-5122	589.69	590.16	588.49	588.84	34.8	400	1.57	100	20.7858	4.6459	0.9	0.8	0.92	36.5	0.011	HDPE
ZONE 235-4399	MH-335	MH-79	600.32	599.79	599.19	598.84	35	150	0.42	100	1.52	0.0362	0.9	0.98	0.8	13.2	0.011	HDPE
ZONE 235-6576	MH-5152	MH-3490	567.93	568.43	566.98	567.33	35.2	150	0.42	100	1.52	0.0345	0.9	0.8	0.95	11	0.011	HDPE
ZONE 235-6698	MH-4803	MH-4279	580.68	580.41	577.84	577.79	36.6	271	0.6	834.074	2.8032	1.7041	2.5	2.57	2.35	56.7	0.01	HDPE
ZONE 235-1377	MH-1803	MH-4537	589.32	588.37	586.95	586.78	35.2	271	1.1	204.639	5.6592	2.2953	1.7	2.1	1.32	47.7	0.01	HDPE
ZONE 235-26	MH-3788	MH-619	580.18	579.66	578.97	578.68	28.9	175	1.1	100	2.5221	0.822	0.9	1.03	0.8	43.9	0.01	HDPE
ZONE 235-6647	MH-4741	MH-5170	584.64	584.14	583.54	583.19	35.4	150	0.76	100	1.52	0.2618	0.9	0.94	0.8	30.4	0.011	HDPE
ZONE 235-1838	MH-5180	MH-468	572.19	571.86	571.24	570.91	35.5	150	0.21	105.632	1.4789	0.0042	0.8	0.8	0.8	4	0.011	HDPE
ZONE 235-1548	MH-5190	MH-4332	583.71	583.57	582.18	581.95	35.7	150	0.6	160.916	1.1983	0.2112	1.4	1.38	1.46	30.5	0.011	HDPE
ZONE 235-6544	MH-5193	MH-5194	572.56	571.93	571.33	570.98	35.7	150	0.73	100	1.52	0.2326	0.9	1.07	0.8	28.6	0.011	HDPE
ZONE 235-3974	MH-5203	MH-327	563.88	564.33	562.3	562.52	35.3	175	0.85	160.151	1.993	0.5863	1.5	1.4	1.63	38.9	0.01	HDPE
ZONE 235-1464	MH-4301	MH-2209	586.04	585.43	584.84	584.48	35.9	150	0.54	100	1.52	0.0811	0.9	1.06	0.8	16.8	0.011	HDPE
ZONE 235-1609	MH-5076	MH-5214	584.85	584.35	581.29	581.09	36	150	0.6	182.996	1.1236	0.2491	3.3	3.41	3.1	32.6	0.011	HDPE
ZONE 235-36	MH-3438	MH-3439	578.74	578.5	577.74	577.55	19.6	150	0.4	100	1.52	0.0307	0.8	0.84	0.8	16.3	0.011	HDPE
ZONE 235-1807	MH-3443	MH-826	572	571.87	571.05	570.92	19.7	150	0.65	152.848	1.2295	0.2647	0.8	0.8	0.8	32.2	0.011	HDPE
ZONE 235-4002	MH-3449	MH-149	565.35	565.24	564.4	564.29	20.9	150	0.28	188.395	1.1074	0.0194	0.8	0.8	0.8	8.9	0.011	HDPE
ZONE 235-4338	MH-1774	MH-329	601.65	601.25	600.43	600.23	31.8	150	0.6	158.141	1.2087	0.204	1	1.07	0.87	28.2	0.011	HDPE
ZONE 235-4973	MH-3464	MH-3465	581	581	577.46	577.4	19.8	150	0.6	287.199	0.8969	0.4551	3.4	3.39	3.45	50.5	0.011	HDPE
ZONE 235-76	MH-3471	MH-893	581.91	581.7	580.86	580.75	10.2	150	0.18	100	1.52	0.002	0.9	0.91	0.8	2.8	0.011	HDPE
ZONE 235-2	MH-3474	MH-2905	580.69	580.48	579.73	579.53	19.8	150	0.32	100	1.52	0.0152	0.8	0.81	0.8	9.1	0.011	HDPE
ZONE 235-4865	MH-3482	MH-455	599.3	599.03	597.31	597.27	22.7	217	0.6	523.982	1.9554	0.8449	1.7	1.77	1.55	43.5	0.01	HDPE
ZONE 235-3651	MH-3485	MH-427	581.33	581.06	580.31	580.11	20.5	150	0.42	100	1.52	0.0358	0.8	0.86	0.8	11.2	0.011	HDPE
ZONE 235-5771	MH-3511	MH-1690	575.25	574.53	573.78	573.58	20.1	150	0.48	100	1.52	0.0563	1.1	1.32	0.8	14	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3798	MH-813	MH-757	581.32	581.1	580.2	580.03	18.9	150	0.68	110.852	1.4437	0.209	1	0.97	0.93	29.7	0.011	HDPE
ZONE 235-1587	MH-3536	MH-3537	584.79	584.5	583.75	583.55	20.3	150	0.89	100	1.52	0.469	0.8	0.89	0.8	41.2	0.011	HDPE
ZONE 235-1508	MH-3538	MH-2047	586.7	586.97	585.75	585.65	20.3	150	0.2	193.529	1.0926	0.0069	1	0.8	1.18	5.4	0.011	HDPE
ZONE 235-4145	MH-3587	MH-583	566.79	567.18	565.84	565.82	21	150	0.17	1,000.00	0.4807	0.0241	1	0.8	1.21	19.9	0.011	HDPE
ZONE 235-1495	MH-3589	MH-1925	588.49	588.36	587.54	587.41	20.8	150	0.22	164.446	1.1853	0.0071	0.8	0.8	0.8	5.4	0.011	HDPE
ZONE 235-4546	MH-3297	MH-2362	603.07	603.03	601.77	601.96	20.8	150	0.6	109.137	1.455	0.1308	1	1.15	0.92	31.3	0.011	HDPE
ZONE 235-3826	MH-3595	MH-457	580.53	580.38	579.58	579.43	20.2	150	0.61	137.617	1.2957	0.1817	0.8	0.8	0.8	26.2	0.011	HDPE
ZONE 235-1649	MH-3632	MH-3633	586	585.71	584.97	584.76	21.1	150	0.35	100	1.52	0.0198	0.8	0.89	0.8	8.3	0.011	HDPE
ZONE 235-3767	MH-24	MH-919	581.05	581.24	580.04	580.07	26	150	0.25	1,000.00	0.4807	0.0949	0.9	0.86	1.02	26.3	0.011	HDPE
ZONE 235-5850	MH-2772	MH-3644	586.25	585.6	584.87	584.65	21.2	150	0.74	100	1.52	0.2442	1	1.23	0.8	29.3	0.011	HDPE
ZONE 235-5096	MH-3645	MH-3646	565.48	565.17	564.43	564.22	21.2	150	1.05	100	1.52	0.8698	0.8	0.9	0.8	57.6	0.011	HDPE
ZONE 235-4252	MH-410	MH-3647	590.92	590.85	589.05	589.03	21.2	400	0.65	1,000.00	6.573	4.186	1.4	1.47	1.42	57.2	0.011	HDPE
ZONE 235-1360	MH-3648	MH-2158	592.21	591.98	589.9	589.88	21.2	150	0.24	1,000.00	0.4807	0.088	2.1	2.16	1.95	27.6	0.011	HDPE
ZONE 235-1613	MH-3649	MH-3650	585.43	585.15	584.41	584.2	21.2	150	0.57	100	1.52	0.1005	0.8	0.86	0.8	18.7	0.011	HDPE
ZONE 235-3617	MH-3654	MH-567	579.19	578.67	577.89	577.72	16.2	150	0.95	100	1.52	0.5955	1	1.16	0.8	46.8	0.011	HDPE
ZONE 235-39	MH-3659	MH-3660	585.5	585.04	584.3	584.09	21.3	150	0.71	100	1.52	0.2141	0.9	1.05	0.8	27.4	0.011	HDPE
ZONE 235-4562	MH-3662	MH-3663	595.82	595.78	594.87	594.83	23.9	150	0.2	542.507	0.6526	0.0209	0.8	0.8	0.8	17.2	0.011	HDPE
ZONE 235-1358	MH-3666	MH-3667	591.6	591.87	590.65	590.63	21.3	150	0.12	1,000.00	0.4807	0.0077	0.9	0.8	1.09	10.5	0.011	HDPE
ZONE 235-5821	MH-1277	MH-3391	580.85	580.82	579.9	579.71	21.3	150	0.6	109.884	1.45	0.1317	0.9	0.8	0.97	23.9	0.011	HDPE
ZONE 235-4892	MH-6330	MH-6331	597.65	598.13	596.7	596.63	70.3	150	0.26	1,000.00	0.4807	0.115	1.1	0.8	1.36	27.3	0.011	HDPE
ZONE 235-5793	MH-5676	MH-6125	579.46	577.65	577.06	576.7	71.9	150	0.68	203.53	1.0655	0.455	1.5	2.25	0.8	44.5	0.011	HDPE
ZONE 235-6421	MH-5643	MH-3742	563.88	564.7	561.54	561.47	72.1	271	0.6	933.833	2.6492	2.0904	2.5	2.06	2.97	63.4	0.01	HDPE
ZONE 235-3692	MH-5619	MH-6334	577.71	577	575.5	576.05	72.2	150	0.41	130.241	1.3319	0.0456	1.4	2.07	0.8	21.9	0.011	HDPE
ZONE 235-5768	MH-3125	MH-2000	572.01	570.52	570.18	569.45	72.5	271	1.32	100	8.0956	1.7595	1.2	1.56	0.8	36.3	0.01	HDPE
ZONE 235-6481	MH-6339	MH-5794	582.26	581.61	581.31	580.66	72.7	150	0.35	111.378	1.4403	0.0216	0.8	0.8	0.8	11.9	0.011	HDPE
ZONE 235-4734	MH-5836	MH-836	592.7	591.68	591.46	590.73	73.1	150	0.62	100	1.52	0.1305	0.9	1.09	0.8	24.9	0.011	HDPE
ZONE 235-1453	MH-6342	MH-4235	591.31	591.01	589.24	589.15	73.3	271	0.6	878.658	2.7311	1.8615	1.7	1.8	1.59	50.9	0.01	HDPE
ZONE 235-4690	MH-6350	MH-451	601.17	603.01	600.1	600.54	73.6	271	1.23	165.203	6.2986	2.6607	1.5	0.8	2.19	48	0.01	HDPE
ZONE 235-4635	MH-6323	MH-6231	600.64	599.71	599.51	598.76	74.2	150	0.8	100	1.52	0.3264	0.9	0.98	0.8	34.1	0.011	HDPE
ZONE 235-4750	MH-825	MH-4810	599.23	598.56	597.83	597.51	74.3	150	0.6	231.379	0.9993	0.3344	1.1	1.25	0.91	45	0.011	HDPE
ZONE 235-3942	MH-4664	MH-655	578.36	579.34	576.21	576.33	48.8	175	0.6	401.099	1.2593	0.5657	2.4	1.97	2.84	47.5	0.01	HDPE
ZONE 235-5009	MH-5702	MH-4040	586.98	586.13	582.25	581.61	74.2	175	0.98	115.699	2.3448	0.6611	4.5	4.56	4.35	39.8	0.01	HDPE
ZONE 235-4638	MH-4376	MH-6358	597.25	598.8	596.24	596.99	75.7	217	1.26	100	4.476	1.3975	1.2	0.8	1.6	43.4	0.01	HDPE
ZONE 235-3631	MH-287	MH-6361	582.43	580.59	580.41	579.64	77.1	150	0.71	100	1.52	0.2147	1.3	1.87	0.8	27.4	0.011	HDPE
ZONE 235-4060	MH-5396	MH-6210	569.45	567.77	567.51	566.75	75.6	217	1.28	100	4.476	1.4972	1.3	1.72	0.8	45	0.01	HDPE
ZONE 235-4593	MH-6364	MH-2233	599.56	599.97	598.61	598.09	75.8	150	0.38	147.204	1.2528	0.0406	1.3	0.8	1.72	12.4	0.011	HDPE
ZONE 235-6408	MH-6227	MH-6365	566.31	565.85	565.22	564.9	75.9	150	0.66	237.282	0.9868	0.5145	0.9	0.94	0.8	54.7	0.011	HDPE
ZONE 235-4395	MH-6367	MH-70	600.92	600.47	599.97	599.52	81.1	150	0.27	178.976	1.1362	0.0156	0.8	0.8	0.8	7.9	0.011	HDPE
ZONE 235-5054	MH-6369	MH-6063	586.32	585.93	585.37	584.98	76.1	150	0.44	193.83	1.0918	0.0926	0.8	0.8	0.8	35.6	0.011	HDPE
ZONE 235-6573	MH-5983	MH-6370	564.01	564	562.99	562.86	76.7	217	0.6	589.591	1.8434	1.0078	0.9	0.8	0.92	46.6	0.01	HDPE
ZONE 235-4663	MH-6372	MH-6373	606.34	607.65	604.5	604.64	39.1	150	0.6	269.251	0.9263	0.4142	2.3	1.69	2.85	46.5	0.011	HDPE
ZONE 235-6409	MH-6365	MH-6313	565.85	565.36	564.9	564.41	77	150	0.86	157.047	1.2129	0.7899	0.8	0.8	0.8	64.5	0.011	HDPE
ZONE 235-3803	MH-6376	MH-3860	583.39	581.88	581.7	580.93	77.3	150	0.51	100	1.52	0.0663	1.2	1.54	0.8	15.2	0.011	HDPE
ZONE 235-4883	MH-6377	MH-6378	599.92	599.96	598.81	598.95	77.4	217	0.6	567.22	1.8794	0.9495	0.8	0.89	0.8	52.3	0.01	HDPE
ZONE 235-4510	MH-4093	MH-6379	604.62	604.77	602.31	602.61	77.4	150	0.6	261.482	0.94	0.3966	2.1	2.15	2.01	47.8	0.011	HDPE
ZONE 235-4645	MH-6148	MH-768	592.98	591.85	591.43	590.65	78	400	1.48	100	20.7858	3.7435	1	1.15	0.8	32.6	0.011	HDPE
ZONE 235-4722	MH-4173	MH-6388	593.31	593.17	592.36	592.22	78.6	150	0.31	562.625	0.6408	0.1044	0.8	0.8	0.8	23.8	0.011	HDPE
ZONE 235-4951	MH-6389	MH-323	589.36	590.43	588.41	588.33	78.7	150	0.19	1,000.00	0.4807	0.0395	1.4	0.8	1.96	34.6	0.011	HDPE
ZONE 235-1468	MH-2210	MH-4333	585.26	583.74	583.34	582.54	79.9	400	1.48	100	22.8644	2.9774	1.2	1.52	0.8	28.4	0.01	HDPE
ZONE 235-4511	MH-6379	MH-5227	604.77	605.13	602.61	603.15	80.1	150	0.6	149.216	1.2443	0.1918	1.9	2.01	1.83	36.4	0.011	HDPE
ZONE 235-4131	MH-90	MH-3361	566.98	567.88	563.36	563.22	57.4	175	0.6	402.132	1.2577	0.5682	4	3.44	4.48	48	0.01	HDPE
ZONE 235-6661	MH-4133	MH-5974	603.1	601.37	601.22	600.42	80.2	150	0.55	100	1.52	0.0893	1.3	1.73	0.8	17.6	0.011	HDPE
ZONE 235-3924	MH-5736	MH-5520	578.24	579.34	576.71	576.61	101.1	150	0.24	1,000.00	0.4807	0.0889	2	1.38	2.58	32.4	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4637	MH-6232	MH-4376	598.95	597.25	597.11	596.3	80.3	150	0.89	100	1.52	0.4631	1.2	1.7	0.8	40.9	0.011	HDPE
ZONE 235-4242	MH-6401	MH-6038	590.47	589.36	589.21	588.41	80.8	150	0.42	100	1.52	0.0361	1	1.11	0.8	11.3	0.011	HDPE
ZONE 235-3641	MH-246	MH-6402	582.26	581.47	581.1	580.52	76.1	150	0.72	130.876	1.3287	0.3062	0.9	1.01	0.8	40.4	0.011	HDPE
ZONE 235-134	MH-6403	MH-5419	568.99	568.6	568.01	567.63	81.1	175	0.94	211.556	1.734	1.3247	0.8	0.8	0.8	63.7	0.01	HDPE
ZONE 235-4890	MH-6406	MH-5381	596.93	597.45	595.98	595.5	81.4	150	0.6	170.511	1.1641	0.2275	1.3	0.8	1.8	34.9	0.011	HDPE
ZONE 235-6609	MH-4482	MH-4990	569.4	570.09	567.36	567.27	81.4	271	0.6	873.04	2.7399	1.8398	2.2	1.77	2.55	60.4	0.01	HDPE
ZONE 235-3839	MH-6409	MH-4669	583.4	581.36	581.22	580.41	81.5	150	0.56	100	1.52	0.0905	1.4	2.03	0.8	17.7	0.011	HDPE
ZONE 235-6708	MH-6301	MH-6138	572.88	572.47	571.68	570.89	82.4	400	1.86	103.273	20.4537	8.9979	1	0.8	1.18	52	0.011	HDPE
ZONE 235-4679	MH-756	MH-6410	597.96	599.46	594.76	595.13	39.6	150	0.6	109.101	1.4552	0.1307	3.6	3.05	4.18	25.1	0.011	HDPE
ZONE 235-5014	MH-4100	MH-6195	585.03	584.11	583.98	583.16	81.7	150	0.82	100	1.52	0.3499	0.9	0.9	0.8	40.1	0.011	HDPE
ZONE 235-4770	MH-6411	MH-6223	615.43	615.19	614.48	614.24	75.7	150	0.31	317.802	0.8527	0.0493	0.8	0.8	0.8	15.1	0.011	HDPE
ZONE 235-6724	MH-4064	MH-6370	564	564	561.86	561.98	83.2	1,100.00	1.54	750	115.2624	86.0261	1	1.04	0.92	56.1	0.011	HDPE
ZONE 235-1451	MH-5394	MH-4980	588.87	588.96	587.69	587.58	82.2	271	0.6	760.179	2.9362	1.4731	1	0.91	1.1	50.3	0.01	HDPE
ZONE 235-6522	MH-6412	MH-6159	581.3	580.56	580.1	579.36	82.2	400	1.48	111.672	19.6696	4.3553	0.8	0.8	0.81	39.9	0.011	HDPE
ZONE 235-4963	MH-6300	MH-4743	604.35	602.29	602.16	601.34	82.3	150	0.91	100	1.52	0.4952	1.4	2.03	0.8	42.4	0.011	HDPE
ZONE 235-1329	MH-6413	MH-1101	587.46	587.43	586.51	586.42	82.4	150	0.19	1,000.00	0.4807	0.0362	0.8	0.8	0.85	18.3	0.011	HDPE
ZONE 235-6441	MH-6414	MH-5865	564.77	563.67	563.54	562.72	82.5	150	0.53	100	1.52	0.0774	0.9	1.08	0.8	25.1	0.011	HDPE
ZONE 235-4803	MH-6415	MH-5883	602.43	603.68	601.48	602.3	82.5	150	0.76	100	1.52	0.2572	1	0.8	1.23	42.6	0.011	HDPE
ZONE 235-6434	MH-6416	MH-4090	558.92	558.32	557.97	557.37	82.6	150	1.08	139.461	1.4158	1.3677	0.8	0.8	0.8	77.5	0.01	HDPE
ZONE 235-4621	MH-385	MH-6418	589.08	590.81	588.13	588.94	81.4	150	0.51	100	1.52	0.0682	1.3	0.8	1.72	27.5	0.011	HDPE
ZONE 235-4688	MH-6199	MH-6350	599.05	601.17	597.98	598.81	82.9	271	1.49	100	8.0956	2.7183	1.4	0.8	2.09	45.6	0.01	HDPE
ZONE 235-1415	MH-5097	MH-5393	592.64	589.66	589.54	588.71	83	150	0.68	100	1.52	0.18	1.9	2.95	0.8	25.1	0.011	HDPE
ZONE 235-5038	MH-6421	MH-6422	586.59	584.91	584.7	583.96	73.6	150	1.1	100	1.52	1.0578	1.3	1.74	0.8	64.4	0.011	HDPE
ZONE 235-1433	MH-3355	MH-6141	592.2	591.17	591.05	590.22	83.1	150	0.5	100	1.52	0.0643	0.9	1	0.8	15	0.011	HDPE
ZONE 235-3841	MH-6424	MH-3788	580.82	580.18	579.87	579.23	84.9	150	0.29	131.665	1.3247	0.0148	0.8	0.8	0.8	7.5	0.011	HDPE
ZONE 235-6432	MH-6425	MH-6426	563.19	562.57	562.24	561.62	83.6	150	0.83	133.978	1.3132	0.5389	0.8	0.8	0.8	46.1	0.011	HDPE
ZONE 235-4240	MH-17	MH-5121	588.25	589.69	587.05	587.89	83.7	400	1.57	100	20.7858	4.6865	1.1	0.8	1.4	50.4	0.011	HDPE
ZONE 235-6725	MH-4064	MH-5203	564	563.88	561.46	561.37	83.3	1,100.00	1.38	1,000.00	97.5709	89.5678	1.4	1.44	1.4	60.9	0.011	HDPE
ZONE 235-93	MH-555	MH-3330	581.25	580.78	580.22	579.64	83.7	217	1.1	146.519	3.6978	1.4163	0.9	0.82	0.92	51.3	0.01	HDPE
ZONE 235-4529	MH-5674	MH-6429	607.46	607.24	606.39	606.26	24.2	175	0.85	194.08	1.8104	0.7612	0.9	0.9	0.8	51.1	0.01	HDPE
ZONE 235-4787	MH-5447	MH-2645	602.97	603	601.64	601.94	31.2	150	0.6	104.459	1.4872	0.1226	1	1.18	0.91	23.9	0.011	HDPE
ZONE 235-22	MH-1084	MH-6430	579.29	580.33	578.34	579.18	83.9	150	0.52	100	1.52	0.0723	0.9	0.8	1.01	15.9	0.011	HDPE
ZONE 235-5066	MH-962	MH-6262	567.07	566.4	565.21	565.36	83.5	217	0.6	569.506	1.8756	0.9551	1.2	1.65	0.83	53.9	0.01	HDPE
ZONE 235-4805	MH-6437	MH-6239	603.96	604.83	603.01	602.92	85.5	150	0.22	1,000.00	0.4807	0.0615	1.3	0.8	1.76	23.5	0.011	HDPE
ZONE 235-4807	MH-6439	MH-6309	603.06	603.63	601.9	602.68	85.6	150	0.7	109.873	1.4501	0.227	0.9	1.01	0.8	37.4	0.011	HDPE
ZONE 235-4702	MH-6440	MH-345	599.56	597.72	597.58	596.74	84.1	175	1.28	100	2.5221	1.4654	1.3	1.81	0.8	60.1	0.01	HDPE
ZONE 235-6694	MH-5117	MH-4312	577.07	575.26	573.26	573.17	87.5	900	1.21	1,000.00	57.1373	56.3524	2.1	2.92	1.19	67	0.011	HDPE
ZONE 235-3643	MH-6402	MH-5737	581.47	581.79	580.52	580.18	87.9	150	0.6	263.135	0.937	0.4002	1.1	0.8	1.46	50.1	0.011	HDPE
ZONE 235-6514	MH-6449	MH-6318	578.23	576.55	576.23	575.35	87.9	400	1.69	100	20.7858	6.0488	1.2	1.6	0.8	41.9	0.011	HDPE
ZONE 235-6669	MH-6450	MH-5978	592.78	591.46	591.37	590.48	88	175	1.17	100	2.5221	1.0197	1	1.24	0.8	49.3	0.01	HDPE
ZONE 235-122	MH-6452	MH-6453	575.96	575.17	575.01	574.22	88.1	150	0.63	110.983	1.4429	0.1614	0.8	0.8	0.8	28	0.011	HDPE
ZONE 235-4896	MH-5710	MH-6454	595.4	596.19	593.9	593.99	88.5	400	0.62	1,000.00	7.2303	2.6572	1.5	1.1	1.81	38.2	0.01	HDPE
ZONE 235-108	MH-5432	MH-5030	580.85	579.35	579.29	578.4	89.3	150	1.05	100	1.52	0.8658	1.1	1.41	0.8	57.5	0.011	HDPE
ZONE 235-4273	MH-5551	MH-6072	592.8	593.89	591.85	592.74	89.5	150	0.71	100	1.52	0.2088	0.9	0.8	1	27.1	0.011	HDPE
ZONE 235-5078	MH-5752	MH-6457	559.67	559.87	557.84	557.71	89.5	217	0.6	646.684	1.7601	1.1727	1.8	1.61	1.94	51.7	0.01	HDPE
ZONE 235-4417	MH-3370	MH-2375	597.05	598.23	596.1	596.83	89.5	150	0.91	122.051	1.5135	0.5085	1	0.8	1.25	43	0.01	HDPE
ZONE 235-4189	MH-206	MH-1288	599.61	598.53	597.97	597.45	85.3	271	1.22	162.389	6.3529	2.509	1.1	1.36	0.81	49.8	0.01	HDPE
ZONE 235-5053	MH-6459	MH-6369	587.52	586.32	586.27	585.37	89.6	150	0.39	100	1.52	0.028	1	1.11	0.8	15	0.011	HDPE
ZONE 235-4709	MH-5784	MH-4710	589.6	587.67	587.62	586.72	90.2	150	0.52	100	1.52	0.0699	1.3	1.83	0.8	15.6	0.011	HDPE
ZONE 235-4898	MH-6454	MH-773	596.19	596.82	594.12	594.21	90.5	271	0.6	993.052	2.569	2.4914	2.1	1.81	2.35	62	0.01	HDPE
ZONE 235-6692	MH-2664	MH-6463	577	577	573.62	573.53	90.5	800	1.07	1,000.00	41.7362	31.2508	2.6	2.58	2.67	70.6	0.011	HDPE
ZONE 235-6778	MH-4491	MH-4090	561.21	558.32	556.61	556.31	90.7	1,100.00	2.24	300	182.2458	94.1181	2.2	3.5	0.91	51.9	0.011	HDPE
ZONE 235-3683	MH-5281	MH-2836	579.41	579.29	577.78	577.69	90.7	150	0.14	1,000.00	0.4807	0.0145	1.5	1.48	1.45	15.3	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3840	MH-6465	MH-1519	582.73	580.97	580.93	580.02	90.7	150	0.38	100	1.52	0.027	1.2	1.65	0.8	22.1	0.011	HDPE
ZONE 235-1861	MH-3018	MH-6466	566.07	566.76	564.87	565.81	98.4	150	0.48	104.559	1.4865	0.0564	0.9	1.05	0.8	29	0.011	HDPE
ZONE 235-5792	MH-4945	MH-1815	574.14	572.55	572.51	571.6	90.9	150	1.04	100	1.52	0.837	1.1	1.48	0.8	56.4	0.011	HDPE
ZONE 235-4478	MH-4792	MH-6467	600.38	599.92	598.88	598.97	90.9	150	0.15	1,000.00	0.4807	0.0176	1.1	1.35	0.8	36.4	0.011	HDPE
ZONE 235-3684	MH-6468	MH-2159	577.95	578.26	577	576.94	67.6	150	0.13	1,000.00	0.4807	0.0112	1	0.8	1.18	13.2	0.011	HDPE
ZONE 235-4654	MH-5535	MH-6358	600.5	598.8	598.71	597.79	91.9	217	1.24	100	4.476	1.3208	1.2	1.58	0.8	42.1	0.01	HDPE
ZONE 235-4802	MH-6439	MH-6415	603.06	602.43	601.9	601.48	92.1	150	0.66	215.287	1.036	0.4268	0.9	1.01	0.8	48.3	0.011	HDPE
ZONE 235-4786	MH-5082	MH-5267	601.25	600.07	599.67	599.1	57.3	175	1.06	100	2.5221	0.7071	1.1	1.41	0.8	40.6	0.01	HDPE
ZONE 235-5057	MH-5185	MH-6472	562.49	561.73	561.48	560.71	92.4	217	1.41	120.31	4.0808	2.8737	0.8	0.8	0.8	66	0.01	HDPE
ZONE 235-4662	MH-6474	MH-6372	604.8	606.34	603.85	604.5	92.8	150	0.8	143.841	1.2674	0.5088	1.2	0.8	1.69	45.1	0.011	HDPE
ZONE 235-6668	MH-6099	MH-6450	594.11	592.78	592.14	591.37	92.9	175	1.07	120.791	2.2948	0.944	1.5	1.8	1.24	53.8	0.01	HDPE
ZONE 235-4737	MH-719	MH-6432	595.68	593.98	593.35	592.69	94.2	150	0.6	143.894	1.2672	0.1833	1.7	2.18	1.14	29.8	0.011	HDPE
ZONE 235-120	MH-6480	MH-6481	576.89	576.02	575.94	575.07	94.2	150	0.77	107.638	1.4651	0.3017	0.8	0.8	0.8	41.1	0.011	HDPE
ZONE 235-4543	MH-684	MH-6482	610.77	611	609.15	609.95	94.2	150	0.6	117.889	1.3999	0.1432	1.2	1.47	0.9	29.5	0.011	HDPE
ZONE 235-1853	MH-6076	MH-1814	571.08	572.6	567.03	566.57	94.8	150	0.6	206.625	1.0574	0.2912	4.9	3.9	5.88	35.2	0.011	HDPE
ZONE 235-4648	MH-5719	MH-843	605.06	603.63	603.63	602.68	95.1	150	0.63	100	1.52	0.1358	1	1.29	0.8	21.8	0.011	HDPE
ZONE 235-5068	MH-6263	MH-6137	564.88	564.3	563.93	563.02	95	150	0.6	104.418	1.4875	0.1226	1	0.8	1.14	20.8	0.011	HDPE
ZONE 235-4695	MH-6486	MH-355	608.15	610.18	607.2	606.4	98.2	150	0.6	123.927	1.3654	0.1528	2.2	0.8	3.62	32.2	0.011	HDPE
ZONE 235-4332	MH-390	MH-6487	600.76	602.23	599.81	600.76	95.4	150	0.59	100	1.52	0.1126	1.1	0.8	1.31	21.9	0.011	HDPE
ZONE 235-6635	MH-16	MH-1419	592.15	591.74	590.52	590.18	86.6	150	0.6	254.812	0.9522	0.3826	1.4	1.48	1.41	43.9	0.011	HDPE
ZONE 235-6624	MH-3939	MH-4384	592.7	591.47	591.22	590.27	95.6	400	1.55	100	20.7858	4.4335	0.9	1.08	0.8	35.6	0.011	HDPE
ZONE 235-130	MH-5459	MH-6278	573.09	570.46	570.47	569.51	95.8	150	1.2	100	1.672	1.158	1.6	2.47	0.8	65.9	0.01	HDPE
ZONE 235-6655	MH-4858	MH-4313	581.58	580.35	579.91	578.95	95.8	600	2.29	100	61.2834	20.2029	0.9	1.07	0.8	45.6	0.011	HDPE
ZONE 235-4313	MH-124	MH-70	598.95	600.47	598	598.96	95.3	150	0.6	100	1.52	0.117	1.1	0.8	1.36	22	0.011	HDPE
ZONE 235-4736	MH-5606	MH-1747	594.82	595.82	593.45	593.35	96.1	150	0.24	1,000.00	0.4807	0.0793	1.8	1.22	2.32	29.4	0.011	HDPE
ZONE 235-4777	MH-6493	MH-5320	598.41	597.76	594.75	594.66	96.4	450	0.73	1,000.00	8.9986	6.8405	2.9	3.2	2.65	69.2	0.011	HDPE
ZONE 235-4894	MH-5923	MH-5709	594.03	595.03	592.83	593.8	96.8	400	1.49	100	22.8644	3.0716	0.8	0.8	0.83	28.8	0.01	HDPE
ZONE 235-4699	MH-6494	MH-6495	604.5	602.07	602.06	601.09	97	175	1.23	100	2.5221	1.223	1.5	2.27	0.8	54.4	0.01	HDPE
ZONE 235-4677	MH-755	MH-6496	598.03	594.36	594.38	593.41	96.9	150	0.99	100	1.52	0.6902	2.1	3.5	0.8	50.7	0.011	HDPE
ZONE 235-6703	MH-2108	MH-1952	578.89	575.7	575.62	574.63	98.3	271	1.44	100	8.0956	2.385	1.9	3	0.8	42.5	0.01	HDPE
ZONE 235-6436	MH-5474	MH-6500	563.2	561.69	561.72	560.74	97.8	150	0.72	100	1.52	0.2207	1.1	1.33	0.8	40.9	0.011	HDPE
ZONE 235-4698	MH-6501	MH-6494	606.96	604.5	604.51	603.53	97.8	175	1.19	100	2.5221	1.0962	1.5	2.28	0.8	51.3	0.01	HDPE
ZONE 235-5049	MH-4677	MH-6502	587.32	589.47	586.37	587.35	97.8	150	0.47	100	1.52	0.0527	1.4	0.8	1.97	13.6	0.011	HDPE
ZONE 235-3682	MH-5634	MH-6504	580.08	579.84	578.44	578.34	98.1	150	0.19	1,000.00	0.4807	0.0393	1.4	1.5	1.35	18.2	0.011	HDPE
ZONE 235-5029	MH-5648	MH-6505	579.9	578.58	577.54	577.63	98.3	150	0.17	1,000.00	0.4807	0.0281	1.5	2.22	0.8	32.4	0.011	HDPE
ZONE 235-4556	MH-743	MH-6506	604.84	605.3	603.41	604.35	97.9	150	0.6	104.073	1.49	0.1222	1	1.27	0.8	23.5	0.011	HDPE
ZONE 235-5085	MH-6508	MH-5051	563.25	563.53	561.98	562.41	98.5	217	0.87	229.693	2.9534	1.1051	1	1.05	0.91	44.6	0.01	HDPE
ZONE 235-4516	MH-6208	MH-6510	607.01	606.5	604.6	605.55	98.4	150	0.79	103.599	1.4934	0.3173	1.5	2.26	0.8	50.6	0.011	HDPE
ZONE 235-1	MH-6511	MH-3818	582.08	580.7	580.74	579.75	99	150	0.45	100	1.52	0.0435	1	1.19	0.8	30.1	0.011	HDPE
ZONE 235-4455	MH-6512	MH-151	596.7	594.89	594.94	593.94	99.9	150	0.47	100	1.52	0.0502	1.2	1.61	0.8	25.6	0.011	HDPE
ZONE 235-4545	MH-6482	MH-6515	611	611	609.95	610.05	99.3	150	0.22	1,000.00	0.4807	0.0646	0.8	0.9	0.8	24.4	0.011	HDPE
ZONE 235-4499	MH-5832	MH-759	603.41	602.98	602.46	602.03	52.8	150	0.77	120.695	1.3836	0.3513	0.8	0.8	0.8	42.4	0.011	HDPE
ZONE 235-4700	MH-6495	MH-6440	602.07	599.56	599.58	598.59	99.8	175	1.25	100	2.5221	1.3299	1.6	2.31	0.8	57	0.01	HDPE
ZONE 235-4861	MH-730	MH-5159	603.11	602.24	600.79	601.29	50.4	150	0.6	100.143	1.5189	0.117	1.5	2.17	0.8	24.7	0.011	HDPE
ZONE 235-4680	MH-6410	MH-6516	599.46	596.18	595.13	595.23	100.4	150	0.23	1,000.00	0.4807	0.0749	2.5	4.18	0.8	24.7	0.011	HDPE
ZONE 235-4665	MH-3350	MH-6518	607.27	607.4	604.9	605.48	100.6	150	0.6	175.123	1.1486	0.235	2	2.22	1.77	33.3	0.011	HDPE
ZONE 235-4961	MH-6520	MH-6299	605.64	604.39	604.46	603.44	101.5	150	0.77	100	1.52	0.2747	0.9	1.03	0.8	40.7	0.011	HDPE
ZONE 235-4885	MH-6523	MH-6524	601.53	599.21	599.29	598.26	103.1	150	0.92	100	1.52	0.5324	1.4	2.09	0.8	52.2	0.011	HDPE
ZONE 235-3689	MH-6255	MH-6010	579.51	580.23	576.3	575.66	103.1	150	0.6	160.22	1.2009	0.2083	3.7	3.06	4.43	28.6	0.011	HDPE
ZONE 235-123	MH-6453	MH-5245	575.17	575.31	574.22	573.6	104.6	150	0.6	167.73	1.1737	0.2198	1.2	0.8	1.56	43.4	0.011	HDPE
ZONE 235-121	MH-6481	MH-5550	576.02	576.61	575.07	574.68	104.7	150	0.6	271.579	0.9224	0.4198	1.3	0.8	1.77	45.6	0.011	HDPE
ZONE 235-6727	MH-3743	MH-6528	565.1	565.45	560.61	560.51	104.7	1,100.00	1.38	1,000.00	97.5709	92.5245	3.6	3.39	3.84	70.2	0.011	HDPE
ZONE 235-6513	MH-5729	MH-6449	579.02	578.23	577.82	577.03	105.2	400	1.51	133.94	17.9602	5.8897	0.8	0.8	0.8	42.8	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4303	MH-2588	MH-73	600.63	599	599.1	598.05	105.3	150	0.66	100	1.52	0.1626	1.1	1.38	0.8	26.2	0.011	HDPE
ZONE 235-3707	MH-2431	MH-6533	577	577.67	576.05	576.72	105.6	150	0.22	156.581	1.2147	0.0068	0.8	0.8	0.8	5.3	0.011	HDPE
ZONE 235-4616	MH-6535	MH-5305	595.59	593.87	593.98	592.92	106.3	150	0.49	100	1.52	0.0586	1.1	1.46	0.8	14.3	0.011	HDPE
ZONE 235-4811	MH-6415	MH-798	602.43	603.04	601.45	601.23	105.8	175	0.6	487.922	1.1418	0.7692	1.2	0.8	1.63	53.3	0.01	HDPE
ZONE 235-5080	MH-6261	MH-2097	561.33	560.52	560.23	559.57	106.9	150	0.78	162.678	1.1917	0.5518	0.9	0.95	0.8	50.9	0.011	HDPE
ZONE 235-4666	MH-6518	MH-6537	607.4	607.39	605.48	606.44	107.4	150	0.6	111.359	1.4404	0.1339	1.3	1.77	0.8	27.3	0.011	HDPE
ZONE 235-4661	MH-6538	MH-6474	603.18	604.8	602.23	603.39	115.4	150	0.96	100	1.52	0.6175	1	0.8	1.27	47.7	0.011	HDPE
ZONE 235-4299	MH-81	MH-4697	594.95	596.94	594	595.09	109	150	0.48	100	1.52	0.056	1.2	0.8	1.7	18.6	0.011	HDPE
ZONE 235-4615	MH-6540	MH-443	592.75	593.96	591.8	591.69	108.2	150	0.23	1,000.00	0.4807	0.0768	1.5	0.8	2.11	29.9	0.011	HDPE
ZONE 235-4620	MH-6541	MH-407	590.13	587.74	587.86	586.79	107.3	150	0.41	100	1.52	0.0321	1.5	2.12	0.8	27.6	0.011	HDPE
ZONE 235-4758	MH-6542	MH-5916	610.46	613.02	609.51	610.64	113.3	150	0.94	100	1.52	0.567	1.5	0.8	2.23	45.6	0.011	HDPE
ZONE 235-4886	MH-6524	MH-5536	599.21	598.24	598.26	597.29	109.6	150	0.96	112.869	1.4307	0.7348	0.8	0.8	0.8	61.4	0.011	HDPE
ZONE 235-3936	MH-6544	MH-5970	578.15	579.48	577.2	577.09	110	150	0.17	1,000.00	0.4807	0.0236	1.5	0.8	2.24	18.6	0.011	HDPE
ZONE 235-4613	MH-6194	MH-6546	595.04	593.83	592.77	592.88	110.5	150	0.23	1,000.00	0.4807	0.0747	1.5	2.12	0.8	24.5	0.011	HDPE
ZONE 235-4755	MH-6547	MH-6548	604.73	605.46	603.72	604.49	110.9	175	1.18	143.476	2.1056	1.9783	0.8	0.84	0.8	76.3	0.01	HDPE
ZONE 235-4776	MH-1170	MH-6493	598.89	598.41	594.86	594.75	111.3	450	0.73	1,000.00	8.9986	6.671	3.4	3.58	3.2	65.5	0.011	HDPE
ZONE 235-4872	MH-5426	MH-5645	598.76	597.66	596.6	596.71	111.2	150	0.22	1,000.00	0.4807	0.0642	1.4	2.01	0.8	28.3	0.011	HDPE
ZONE 235-5058	MH-6472	MH-6550	561.73	561.33	560.65	560.26	111.5	271	1.05	282.583	4.8159	3.1637	0.8	0.8	0.8	61.2	0.01	HDPE
ZONE 235-5063	MH-963	MH-6137	567.06	564.3	563.74	563.29	45	217	1.22	100	4.476	1.2465	2	3.11	0.8	40.9	0.01	HDPE
ZONE 235-4693	MH-6552	MH-940	600.02	597.56	597.73	596.61	112.2	150	0.8	100	1.52	0.3216	1.5	2.14	0.8	33.8	0.011	HDPE
ZONE 235-6717	MH-1815	MH-5397	572.55	571.81	565.61	565.5	112.4	1,100.00	1.34	1,000.00	97.5709	75.9279	5.5	5.84	5.21	64.3	0.011	HDPE
ZONE 235-4631	MH-6553	MH-3236	604.49	602.42	602.59	601.47	112.6	150	0.51	100	1.52	0.0677	1.3	1.75	0.8	15.4	0.011	HDPE
ZONE 235-3701	MH-2664	MH-6554	577	577.77	576.05	576.82	112.6	150	0.26	145.927	1.2583	0.0114	0.8	0.8	0.8	6.7	0.011	HDPE
ZONE 235-4342	MH-6555	MH-2740	605.06	603.13	603.3	602.18	112.7	150	0.42	100	1.52	0.037	1.2	1.6	0.8	11.4	0.011	HDPE
ZONE 235-5040	MH-902	MH-5691	586.72	585.02	583.6	583.47	113	271	0.6	882.794	2.7247	1.8769	2.1	2.85	1.28	60.7	0.01	HDPE
ZONE 235-4905	MH-5919	MH-773	596.01	596.82	594.43	594.26	84.4	217	0.6	506.008	1.9898	0.8039	1.9	1.36	2.35	56	0.01	HDPE
ZONE 235-4714	MH-6041	MH-6557	589.62	590.84	588.67	589.82	114.6	150	0.62	100	1.52	0.1315	0.8	0.8	0.87	28	0.011	HDPE
ZONE 235-5030	MH-6558	MH-5311	578.96	581.88	578.01	577.9	115.2	150	0.18	1,000.00	0.4807	0.0314	2.3	0.8	3.84	29.1	0.011	HDPE
ZONE 235-6638	MH-4384	MH-6038	591.47	589.36	589.34	588.16	117.8	400	1.56	100	20.7858	4.6107	1.3	1.73	0.8	36.3	0.011	HDPE
ZONE 235-4187	MH-688	MH-11	598.17	599.09	597.22	598.14	111	150	0.51	120.998	1.3818	0.0866	0.8	0.8	0.8	17.8	0.011	HDPE
ZONE 235-4652	MH-5434	MH-5534	602.06	600.04	600.25	599.09	116.3	150	1.12	100	1.52	1.1588	1.2	1.66	0.8	68	0.011	HDPE
ZONE 235-4907	MH-6563	MH-783	598.96	598.97	597.98	597.73	116.7	175	0.6	470.441	1.1628	0.7221	0.9	0.8	1.07	51	0.01	HDPE
ZONE 235-4723	MH-6388	MH-5414	593.17	591.32	591.55	590.37	117.9	150	0.77	100	1.52	0.2814	1.1	1.47	0.8	31.5	0.011	HDPE
ZONE 235-4868	MH-6222	MH-5544	599.51	600.94	598.41	599.09	118.2	150	0.41	171.978	1.1591	0.062	1.3	0.95	1.7	18	0.011	HDPE
ZONE 235-5059	MH-6550	MH-6564	561.33	560.89	560.26	559.82	118.6	271	1.11	270.144	4.9255	3.7413	0.8	0.8	0.8	67.3	0.01	HDPE
ZONE 235-4756	MH-6548	MH-6566	605.46	607.3	604.49	605.68	118.8	175	1.33	100	2.5221	1.7036	1.1	0.8	1.45	74.3	0.01	HDPE
ZONE 235-5007	MH-319	MH-5701	583.68	585.92	582.66	582.35	119.1	175	0.6	385.606	1.2844	0.534	2.1	0.84	3.4	46.1	0.01	HDPE
ZONE 235-4630	MH-6392	MH-1057	599.63	599.26	598.68	598.31	70.9	150	0.37	192.643	1.0951	0.0495	0.8	0.8	0.8	18.9	0.011	HDPE
ZONE 235-4900	MH-1001	MH-783	596.84	598.97	595.87	596.48	61.8	175	1.28	100	2.5221	1.4602	1.6	0.8	2.32	60	0.01	HDPE
ZONE 235-4691	MH-6571	MH-6552	600.98	600.02	600.03	599.07	120.9	150	0.65	125.526	1.3567	0.2044	0.8	0.8	0.8	27.5	0.011	HDPE
ZONE 235-4968	MH-636	MH-881	601.79	598.91	599.18	597.93	125.1	175	1.14	100	2.5221	0.9303	1.6	2.43	0.8	46.9	0.01	HDPE
ZONE 235-4683	MH-5043	MH-6573	600.93	603.39	599.98	601.21	123	150	0.75	100	1.52	0.2539	1.4	0.8	2.03	35	0.011	HDPE
ZONE 235-4884	MH-6378	MH-6575	599.96	601.85	599.01	600.25	123.7	150	1	100	1.52	0.7336	1.1	0.8	1.45	52.4	0.011	HDPE
ZONE 235-6437	MH-6500	MH-6517	561.69	564.09	560.74	560.4	122.3	150	0.6	357.322	0.8845	0.4777	2.2	0.8	3.54	48.4	0.01	HDPE
ZONE 235-3953	MH-4248	MH-5104	565.05	565.82	564.03	563.85	123.5	217	0.6	666.231	1.7341	1.2368	1.3	0.8	1.76	53.7	0.01	HDPE
ZONE 235-4518	MH-6208	MH-512	607.01	604.33	604.57	603.35	122.3	175	1.31	100	2.5221	1.6156	1.5	2.26	0.8	63.5	0.01	HDPE
ZONE 235-4929	MH-6578	MH-1384	586.67	587.09	585.72	585.59	125.1	150	0.19	1,000.00	0.4807	0.0356	1.1	0.8	1.35	19.5	0.011	HDPE
ZONE 235-4188	MH-6579	MH-688	597	598.17	596.05	596.56	67.3	150	0.67	132.68	1.3196	0.2421	1.1	0.8	1.46	34.2	0.011	HDPE
ZONE 235-5039	MH-6580	MH-4467	585.65	588.07	584.63	585.89	126	217	1.28	100	4.476	1.4607	1.4	0.8	1.97	52.1	0.01	HDPE
ZONE 235-3932	MH-5369	MH-6581	580.31	580.87	579.36	579.77	41.2	150	0.51	100	1.52	0.0711	0.9	0.8	0.95	17.9	0.011	HDPE
ZONE 235-6480	MH-6582	MH-3606	581.96	581.16	581.01	580.21	127.3	150	0.34	158.426	1.2076	0.0292	0.8	0.8	0.8	10.7	0.011	HDPE
ZONE 235-5018	MH-6583	MH-1116	579.57	582.76	578.62	578.49	127.4	150	0.18	1,000.00	0.4807	0.0296	2.5	0.8	4.12	35.3	0.011	HDPE
ZONE 235-4775	MH-6108	MH-355	610.42	610.18	609.23	608.67	130.1	150	0.6	235.868	0.9897	0.3432	1.2	1.05	1.35	39	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-5051	MH-839	MH-6585	587.39	586.61	585.53	585.66	129.3	150	0.19	1,000.00	0.4807	0.0366	1.3	1.71	0.8	25.8	0.011	HDPE
ZONE 235-5010	MH-6587	MH-4002	588.76	585.71	586.07	584.76	130.5	150	0.66	100	1.52	0.1663	1.7	2.54	0.8	28.7	0.011	HDPE
ZONE 235-4322	MH-5042	MH-1974	601.85	599.93	600.28	598.98	129.7	150	0.38	100	1.52	0.0247	1.1	1.42	0.8	10.7	0.011	HDPE
ZONE 235-4747	MH-6588	MH-5089	596.97	594.59	594.94	593.64	130.6	150	0.61	100	1.52	0.1209	1.3	1.88	0.8	20.6	0.011	HDPE
ZONE 235-4413	MH-5893	MH-5543	598.64	596.8	597.1	595.78	131.5	217	1.16	100	4.476	1.0291	1.1	1.33	0.8	36.9	0.01	HDPE
ZONE 235-4874	MH-825	MH-6591	599.23	601.85	598.28	599.6	132	150	0.55	100	1.52	0.0904	1.4	0.8	2.09	17.7	0.011	HDPE
ZONE 235-5019	MH-6592	MH-5754	584.24	581.5	581.53	580.55	97.4	150	0.4	100	1.52	0.0301	1.7	2.56	0.8	14	0.011	HDPE
ZONE 235-117	MH-4215	MH-6297	580.95	577.9	578.28	576.95	133.2	150	0.9	100	1.52	0.484	1.7	2.52	0.8	41.9	0.011	HDPE
ZONE 235-6429	MH-6036	MH-6254	565.92	563.44	563.84	562.49	134.4	150	0.7	100	1.52	0.1993	1.4	1.93	0.8	35.8	0.011	HDPE
ZONE 235-4466	MH-6595	MH-2788	602.6	599.24	599.64	598.29	134.5	150	0.4	100	1.52	0.0295	1.8	2.81	0.8	10.2	0.011	HDPE
ZONE 235-5810	MH-6152	MH-6596	573.5	568.76	569.16	567.81	134.7	150	0.91	100	1.52	0.508	2.5	4.18	0.8	43	0.011	HDPE
ZONE 235-4877	MH-6569	MH-6371	607.42	610.69	606.47	607.81	134.8	150	0.76	100	1.52	0.2586	1.8	0.8	2.73	30.2	0.011	HDPE
ZONE 235-4718	MH-5530	MH-5414	591.65	591.32	590.25	589.8	136	600	1.44	307.47	34.9496	16.7867	0.9	0.8	0.92	48.1	0.011	HDPE
ZONE 235-6584	MH-3430	MH-4975	565.76	565.27	564.55	563.42	140	175	1.08	123.834	2.2665	1.0047	1.4	1.04	1.68	50.3	0.01	HDPE
ZONE 235-19	MH-6597	MH-4923	580.11	583.2	579.16	579.02	136.6	150	0.23	1,000.00	0.4807	0.07	2.4	0.8	4.03	37.1	0.011	HDPE
ZONE 235-4819	MH-5165	MH-729	604.92	603.11	603.52	602.16	135.7	150	0.62	100	1.52	0.1354	1	1.25	0.8	21.7	0.011	HDPE
ZONE 235-4782	MH-729	MH-6119	603.11	602.92	600.4	599.93	128.7	150	0.6	273.034	0.9199	0.4231	2.7	2.56	2.84	44.7	0.011	HDPE
ZONE 235-6658	MH-3155	MH-1968	578.61	577	577.01	575.6	140.7	600	2.3	100	61.2834	20.7611	0.9	1	0.8	46.3	0.011	HDPE
ZONE 235-5069	MH-6599	MH-6319	570.01	568.09	568.52	567.14	138.1	150	0.68	100	1.52	0.1798	1.1	1.34	0.8	25.1	0.011	HDPE
ZONE 235-125	MH-6600	MH-5459	573.75	573.09	572.8	571.9	138.5	150	0.6	155.003	1.2209	0.2021	0.9	0.8	1.04	28.1	0.011	HDPE
ZONE 235-4558	MH-6602	MH-92	599.48	598.64	598.53	597.69	119.1	150	0.47	140.353	1.283	0.0774	0.8	0.8	0.8	23.2	0.011	HDPE
ZONE 235-4285	MH-6605	MH-4755	602.91	599.39	599.84	598.44	140.5	150	0.38	100	1.52	0.0246	1.9	2.92	0.8	15.7	0.011	HDPE
ZONE 235-6712	MH-2000	MH-4118	570.52	570.19	567.74	567.6	140.9	1,000.00	1.3	1,000.00	75.6728	71.8841	1.7	1.78	1.59	70.1	0.011	HDPE
ZONE 235-4697	MH-6042	MH-6501	610.29	606.96	606.26	605.98	142.4	175	0.6	523.443	1.1024	0.8808	2.3	3.86	0.8	58.7	0.01	HDPE
ZONE 235-6718	MH-5397	MH-4618	571.81	569.23	565.5	565.34	153.4	1,100.00	1.35	1,000.00	97.5709	78.7425	4	5.21	2.79	60.2	0.011	HDPE
ZONE 235-4790	MH-747	MH-6606	602.95	600.46	600.93	599.51	142.9	150	0.45	100	1.52	0.0446	1.3	1.87	0.8	12.5	0.011	HDPE
ZONE 235-4469	MH-6609	MH-6610	603.25	599.63	599.28	598.68	60	150	0.36	100	1.52	0.0213	2.3	3.82	0.8	15.1	0.011	HDPE
ZONE 235-4173	MH-798	MH-6611	603.04	605.19	602.09	603.54	145	150	0.53	100	1.52	0.0766	1.2	0.8	1.5	16.3	0.011	HDPE
ZONE 235-4471	MH-6617	MH-76	603.66	599.87	600.42	598.92	149.3	150	0.36	100	1.52	0.021	1.9	3.09	0.8	13.4	0.011	HDPE
ZONE 235-124	MH-6618	MH-5246	574.64	574.22	573.69	572.54	150.4	150	0.46	131.395	1.326	0.0659	1.2	0.8	1.53	38.8	0.011	HDPE
ZONE 235-4757	MH-6566	MH-6542	607.3	610.46	606.32	607.84	151.2	175	1.25	100	2.5221	1.3134	1.6	0.8	2.45	56.6	0.01	HDPE
ZONE 235-6622	MH-1514	MH-3938	594.75	592.96	593.13	591.76	136.6	400	1.52	100	20.7858	4.1906	1	1.22	0.8	34.6	0.011	HDPE
ZONE 235-4473	MH-6619	MH-4658	603.94	600.13	600.71	599.18	152.6	150	0.38	100	1.52	0.026	1.9	3.08	0.8	11.3	0.011	HDPE
ZONE 235-4792	MH-304	MH-6620	602.77	600.04	600.62	599.09	152.8	150	0.36	100	1.52	0.0208	1.4	2	0.8	8.6	0.011	HDPE
ZONE 235-6678	MH-2030	MH-6	583.45	581	580.74	579.44	149.7	700	2.28	115.246	86.1102	24.9356	1.4	2.01	0.86	55.1	0.011	HDPE
ZONE 235-6438	MH-6623	MH-3456	565.59	563.4	564.02	562.45	156.7	150	0.64	100	1.52	0.1477	1.1	1.42	0.8	22.7	0.011	HDPE
ZONE 235-4703	MH-346	MH-5946	597.72	597.57	594.62	594.46	164.8	450	0.76	1,000.00	8.9986	8.5215	2.7	2.64	2.67	61.1	0.011	HDPE
ZONE 235-5050	MH-6626	MH-6627	587.84	589.99	586.89	588.59	169.9	150	0.66	100	1.52	0.1625	1	0.8	1.25	45.1	0.011	HDPE
ZONE 235-1409	MH-4352	MH-5478	587.34	583.01	583.69	582.06	162.5	150	0.77	100	1.52	0.274	2.2	3.51	0.8	31.1	0.011	HDPE
ZONE 235-4983	MH-2124	MH-2291	583.74	581	580.37	579.93	44	271	1.25	100	8.0956	1.454	2	3.1	0.8	47.5	0.01	HDPE
ZONE 235-6693	MH-6463	MH-5117	577	577.07	573.43	573.26	175	900	1.21	1,000.00	57.1373	56.2177	2.8	2.67	2.92	73.1	0.011	HDPE
ZONE 235-4881	MH-881	MH-6377	598.91	599.92	597.84	598.76	169.3	271	1.31	184.211	5.9648	4.0836	0.8	0.8	0.89	61.9	0.01	HDPE
ZONE 235-4801	MH-5446	MH-6638	602.98	600.87	600.61	599.92	68.9	150	0.59	100	1.52	0.1141	1.5	2.21	0.8	23.8	0.011	HDPE
ZONE 235-6719	MH-5677	MH-5104	567.02	565.82	565.41	563.66	205.6	400	1.39	117.813	21.065	2.9237	1.5	1.21	1.76	42.7	0.01	HDPE
ZONE 235-4457	MH-6639	MH-509	598.08	594.86	595.66	593.91	175.3	150	0.35	100	1.52	0.0194	1.5	2.27	0.8	19.3	0.011	HDPE
ZONE 235-4458	MH-6644	MH-4566	598.11	594.82	595.63	593.87	176.2	150	0.4	100	1.52	0.0293	1.6	2.34	0.8	25.1	0.011	HDPE
ZONE 235-4628	MH-6645	MH-6391	596.45	598.62	595.5	597.27	177	150	0.64	100	1.52	0.1481	1	0.8	1.2	22.7	0.011	HDPE
ZONE 235-6715	MH-6596	MH-1814	568.76	572.6	566.96	565.72	194.2	1,000.00	2.69	155.702	191.7752	74.645	3.3	0.8	5.88	58	0.011	HDPE
ZONE 235-4430	MH-6646	MH-1523	598.64	596.06	596.89	595.11	177.6	150	0.22	100	1.52	0.0041	1.2	1.6	0.8	3.9	0.011	HDPE
ZONE 235-4460	MH-6649	MH-466	598.28	594.78	595.62	593.83	178.4	150	0.5	100	1.52	0.0638	1.7	2.51	0.8	26.7	0.011	HDPE
ZONE 235-6652	MH-5170	MH-5692	584.14	584.27	582.74	582.56	178.7	600	0.9	1,000.00	19.3795	15.7439	1	0.8	1.12	58.6	0.011	HDPE
ZONE 235-3700	MH-6504	MH-6009	579.84	580.77	578.34	577.1	179.9	150	0.46	145.427	1.2605	0.0738	2.4	1.35	3.51	16.8	0.011	HDPE
ZONE 235-5036	MH-6651	MH-902	587.71	586.72	586.76	585.77	182.6	150	0.62	185.014	1.1175	0.2869	0.8	0.8	0.8	34.4	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-6433	MH-6426	MH-6416	562.57	558.92	559.85	557.97	188.6	150	1.06	100	1.52	0.9141	1.7	2.57	0.8	70.5	0.011	HDPE
ZONE 235-6674	MH-4257	MH-2943	587.23	586.45	583.93	583.75	189.2	700	0.98	1,000.00	29.2326	21.621	2.3	2.59	2	54.7	0.011	HDPE
ZONE 235-6648	MH-6652	MH-4466	589.52	588.15	588.57	587.04	190.2	150	0.6	124.678	1.3613	0.1542	0.9	0.8	0.96	36.8	0.011	HDPE
ZONE 235-6675	MH-2943	MH-2030	586.45	583.45	583.75	581.95	200.4	700	2.3	111.795	87.4291	24.5979	1.4	2	0.8	41.6	0.011	HDPE
ZONE 235-6723	MH-4975	MH-6370	565.27	564	562.49	561.98	189.3	1,100.00	2.02	367.907	160.8612	84.9217	1.3	1.68	0.92	56.3	0.011	HDPE
ZONE 235-6650	MH-6580	MH-5691	585.65	585.02	584.63	583.52	194.3	217	1.08	175.476	3.379	1.7026	1	0.8	1.28	51.9	0.01	HDPE
ZONE 235-4711	MH-4711	MH-6045	587.24	590.15	586.29	588.24	196.1	150	0.99	100.601	1.667	0.5452	1.3	0.8	1.76	43.6	0.01	HDPE
ZONE 235-5037	MH-6653	MH-6421	589.92	586.59	587.62	585.64	197.8	150	1.01	100	1.52	0.7639	1.5	2.15	0.8	53.6	0.011	HDPE
ZONE 235-6431	MH-6654	MH-6425	567.02	563.19	564.23	562.24	198.8	150	0.54	100	1.52	0.0828	1.7	2.64	0.8	33.2	0.011	HDPE
ZONE 235-4966	MH-4744	MH-636	601.53	601.79	600.55	599.18	225.5	175	0.87	164.62	1.9657	0.6617	1.6	0.8	2.43	48.1	0.01	HDPE
ZONE 235-4289	MH-111	MH-54	599.8	594.74	596.17	593.79	238.3	150	0.74	100	1.52	0.2437	2.1	3.48	0.8	29.3	0.011	HDPE
ZONE 235-4990	MH-5871	MH-235	583.49	581	581.22	580.05	117.1	150	1.15	100	1.672	0.9673	1.5	2.12	0.8	59.6	0.01	HDPE
ZONE 235-4603	MH-768	MH-6645	591.85	596.45	590.9	593.38	247.8	150	0.8	100	1.52	0.3166	1.9	0.8	2.92	33.6	0.011	HDPE
ZONE 235-6644	MH-5484	MH-5170	586.84	584.14	585.49	582.94	255.1	400	2.13	100	20.7858	15.4074	0.9	0.95	0.8	69.8	0.011	HDPE
ZONE 235-5034	MH-6662	MH-4466	593.54	588.15	589.88	587.2	267.3	150	1.06	100	1.52	0.9322	2.2	3.51	0.8	59.9	0.011	HDPE
ZONE 235-6714	MH-5515	MH-6596	570	568.76	567.56	566.96	377.6	1,000.00	1.58	632.142	95.1771	73.6713	1.1	1.44	0.8	59	0.011	HDPE
ZONE 235-6726	MH-5203	MH-3743	563.88	565.1	561.37	560.61	333.8	1,100.00	1.92	438.583	147.331	90.28	2.4	1.4	3.39	63.7	0.011	HDPE
ZONE 235-133	MH-6671	MH-6403	576.95	568.99	572	568.04	396.9	150	0.96	100	1.52	0.6184	2.8	4.79	0.8	55.1	0.011	HDPE
ZONE 235-6653	MH-5692	MH-5009	584.27	581.95	582.56	580.51	420.4	600	1.74	204.911	42.8115	19.5468	1	1.12	0.85	51.7	0.011	HDPE
CO-5	MH-6673	MH-2241	572.23	571.63	569.28	569.7	41.6	150	0.6	100.255	1.5181	0.1173	2.3	2.8	1.78	23.2	0.011	HDPE
CO-42	MH-6487	MH-6675	602.23	603.2	601.28	602.25	96.8	150	0.49	100	1.52	0.0578	0.8	0.8	0.8	14.2	0.011	HDPE
CO-43	MH-5447	MH-6119	602.97	602.92	601.64	601.22	54.3	150	0.6	128.861	1.339	0.1582	1.4	1.18	1.56	24.2	0.011	HDPE
CO-44	MH-569	MH-4907	603	603	601.99	602.02	32.5	150	0.24	1,000.00	0.4807	0.0832	0.8	0.86	0.83	28.3	0.011	HDPE
CO-45	MH-4907	MH-5330	603	603	602.02	602.05	27.7	150	0.2	1,000.00	0.4807	0.0456	0.8	0.83	0.8	24.3	0.011	HDPE
CO-46	MH-205	MH-6676	599.61	601.4	598.59	598.86	38.7	217	1.05	141.639	3.761	1.1467	1.6	0.8	2.33	46.5	0.01	HDPE
CO-47	MH-6676	MH-897	601.4	602.62	600.39	600.87	48.1	217	1.13	100	4.476	0.9429	1.2	0.8	1.54	35.3	0.01	HDPE
CO-48	MH-6638	MH-6676	600.87	601.4	599.92	598.93	131.9	150	0.6	132.983	1.3181	0.1655	1.6	0.8	2.33	24.9	0.011	HDPE
CO-50	MH-6677	MH-6526	603.34	603.68	602.39	602.73	55.9	150	0.43	166.494	1.178	0.0685	0.8	0.8	0.8	20.2	0.011	HDPE
CO-51	MH-6677	MH-6439	603.34	603.06	602.39	601.9	55.5	150	0.6	114.026	1.4235	0.1377	0.9	0.8	1.01	33.9	0.011	HDPE
CO-52	MH-6549	MH-6678	604.16	602.8	602.6	601.85	75.7	150	0.29	100	1.52	0.0111	1.1	1.41	0.8	6.3	0.011	HDPE
CO-53	MH-6678	MH-2398	602.8	602.15	601.56	601.2	35.7	150	0.68	100	1.52	0.1802	0.9	1.09	0.8	25.1	0.011	HDPE
CO-54	MH-5072	MH-6678	602.99	602.8	602.02	601.85	17.1	150	0.65	100	1.52	0.1549	0.8	0.82	0.8	23.3	0.011	HDPE
CO-55	MH-6610	MH-3441	599.63	599.64	598.68	598.41	91.9	150	0.35	338.271	0.8265	0.0814	0.9	0.8	1.08	23	0.011	HDPE
CO-56	MH-6579	MH-5543	597	596.8	596.05	595.68	76.1	150	0.62	202.86	1.0672	0.3133	0.9	0.8	0.97	36.5	0.011	HDPE
CO-58	MH-53	MH-1514	594.74	594.75	593.53	593.51	20.2	400	0.65	1,000.00	6.573	4.0784	0.8	0.81	0.83	44.3	0.011	HDPE
CO-60	MH-1975	MH-1666	599.86	599.68	598.88	598.73	15	150	0.44	100	1.52	0.0406	0.8	0.84	0.8	11.9	0.011	HDPE
CO-61	MH-78	MH-3482	599.74	599.3	598.56	598.35	21.4	150	0.99	100	1.52	0.6934	0.9	1.02	0.8	50.8	0.011	HDPE
CO-63	MH-6097	MH-6237	594.39	594.37	593.32	593.29	28.9	271	0.6	937.402	2.6442	2.1124	0.8	0.8	0.8	53.5	0.01	HDPE
CO-64	MH-6237	MH-6147	594.37	593.88	591.57	591.5	73.1	400	0.62	1,000.00	6.573	3.4696	2.2	2.39	1.98	50	0.011	HDPE
CO-66	MH-755	MH-6267	598.03	599.75	597.08	597.74	65.8	150	0.89	100	1.52	0.4692	1.3	0.8	1.86	41.2	0.011	HDPE
CO-67	MH-756	MH-755	597.96	598.03	594.76	594.38	42.9	150	0.65	112.317	1.4343	0.1795	3.3	3.05	3.5	41	0.011	HDPE
CO-68	MH-6198	MH-6311	597.43	597.42	596.23	596.19	38.7	400	0.63	1,000.00	7.2303	2.8006	0.8	0.8	0.83	49.2	0.01	HDPE
CO-69	MH-6099	MH-6680	594.11	594.5	593.09	593.55	91.7	150	0.6	201.552	1.0707	0.2781	0.8	0.87	0.8	34.2	0.011	HDPE
CO-70	MH-6680	MH-6681	594.5	594.65	593.55	593.7	102.6	150	0.26	684.784	0.5809	0.0724	0.8	0.8	0.8	28.9	0.011	HDPE
CO-71	MH-5625	MH-5586	593.66	593.38	592.66	592.43	23.2	150	0.59	100	1.52	0.1141	0.8	0.86	0.8	20	0.011	HDPE
CO-72	MH-5767	MH-6292	592.01	591.5	591.06	590.55	53.2	150	0.74	103.118	1.4969	0.2484	0.8	0.8	0.8	29.7	0.011	HDPE
CO-73	MH-6568	MH-6547	604.52	604.73	603.51	603.67	16.9	217	1.48	100	4.476	2.6181	0.8	0.8	0.84	61	0.01	HDPE
CO-74	MH-6547	MH-6569	604.73	607.42	603.78	604.89	111.1	150	0.93	100	1.52	0.535	1.6	0.8	2.37	44.2	0.011	HDPE
CO-75	MH-843	MH-6538	603.63	603.18	602.64	602.23	40.4	150	0.77	100	1.52	0.2811	0.8	0.84	0.8	31.5	0.011	HDPE
CO-76	MH-6538	MH-5433	603.18	602.47	602.17	601.52	65.2	150	1.08	100	1.52	0.9735	0.8	0.86	0.8	61.4	0.011	HDPE
CO-77	MH-5807	MH-6188	608.67	609.76	607.72	608.32	59.2	150	0.84	100	1.52	0.3779	1	0.8	1.29	36.8	0.011	HDPE
CO-78	MH-6188	MH-684	609.76	610.77	608.81	609.15	55	150	0.66	160.708	1.199	0.2918	1.1	0.8	1.47	34	0.011	HDPE
CO-79	MH-3349	MH-6373	607.66	607.65	604.81	604.64	39.5	150	0.6	236.024	0.9894	0.3436	2.8	2.7	2.85	43.2	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-80	MH-5399	MH-6331	597.67	598.13	595.31	595.23	50.7	217	0.6	678.017	1.719	1.2792	2.4	2.15	2.68	54.9	0.01	HDPE
CO-81	MH-6331	MH-881	598.13	598.91	595.18	595.05	99.6	271	0.6	760.164	2.9363	1.4731	3.1	2.68	3.59	44.8	0.01	HDPE
CO-82	MH-5381	MH-5399	597.45	597.67	595.5	595.37	29.5	150	0.6	229.349	1.0037	0.3306	2	1.8	2.15	42.9	0.011	HDPE
CO-85	MH-6134	MH-5806	607.66	607.83	606.71	606.88	28.2	150	0.74	166.977	1.1763	0.4753	0.8	0.8	0.8	50.1	0.011	HDPE
CO-86	MH-6276	MH-5789	612.4	614.07	611.45	612.07	62.2	150	0.5	100	1.52	0.0647	1.3	0.8	1.85	15	0.011	HDPE
CO-88	MH-6479	MH-6682	593.25	591.09	591.02	590.14	87.6	150	0.55	100	1.52	0.0887	1.4	2.08	0.8	17.6	0.011	HDPE
CO-89	MH-6682	MH-385	591.09	589.08	588.9	588.13	77.2	150	0.72	100	1.52	0.2159	1.4	2.05	0.8	34.1	0.011	HDPE
CO-90	MH-4996	MH-836	592.18	591.68	591	590.73	26.9	150	0.39	100	1.52	0.0283	0.9	1.03	0.8	18.7	0.011	HDPE
CO-92	MH-4893	MH-818	586.88	586.92	585.93	585.89	41.2	150	0.2	1,000.00	0.4807	0.0445	0.8	0.8	0.87	16.9	0.011	HDPE
CO-93	MH-989	MH-6307	586.96	587.79	586.01	586.25	24.3	150	0.82	100	1.52	0.3497	1.1	0.8	1.39	40.5	0.011	HDPE
CO-94	MH-6307	MH-5892	587.79	587.9	586.84	586.95	25.1	150	0.6	213.263	1.0409	0.2998	0.8	0.8	0.8	35.8	0.011	HDPE
CO-95	MH-5892	MH-6270	587.9	588.78	586.95	587.21	25.5	150	0.77	100	1.52	0.2747	1.1	0.8	1.42	35.1	0.011	HDPE
CO-96	MH-6270	MH-5878	588.78	588.92	587.8	587.97	25	150	0.6	154.68	1.2222	0.2015	0.8	0.83	0.8	28	0.011	HDPE
CO-97	MH-5998	MH-6626	588.8	587.84	587.43	586.89	53.9	150	1.01	100	1.52	0.7486	1	1.21	0.8	60.8	0.011	HDPE
CO-98	MH-6626	MH-5824	587.84	587.76	586.89	586.69	23	150	1.1	111.99	1.58	0.9426	0.9	0.8	0.92	65	0.01	HDPE
CO-99	MH-902	MH-6422	586.72	584.91	583.65	583.9	163.5	217	0.6	664.705	1.7361	1.2306	1.8	2.85	0.8	55.7	0.01	HDPE
CO-104	MH-5998	MH-323	588.8	590.43	587.85	588.33	76.1	150	0.8	158.754	1.2064	0.5843	1.4	0.8	1.96	49.3	0.011	HDPE
CO-105	MH-4104	MH-5998	588.77	588.8	587.82	587.59	24.5	150	0.6	106.866	1.4704	0.1281	0.9	0.8	1.06	21.3	0.011	HDPE
CO-106	MH-4926	MH-6211	590.35	590.38	589.37	589.43	8.2	150	0.6	150.118	1.2406	0.1933	0.8	0.82	0.8	29	0.011	HDPE
CO-107	MH-5020	MH-6683	591.98	591.8	590.96	590.69	52	217	0.99	193.201	3.2202	1.3989	0.8	0.8	0.89	47.2	0.01	HDPE
CO-108	MH-6683	MH-6684	591.8	591.75	590.64	590.54	81.9	271	0.6	797.673	2.8664	1.5859	0.9	0.89	0.94	45.7	0.01	HDPE
CO-109	MH-6684	MH-6685	591.75	591.5	589.35	589.27	74.4	271	0.6	859.906	2.7607	1.7936	2	2.13	1.96	58.7	0.01	HDPE
CO-110	MH-6685	MH-6342	591.5	591.31	589.27	589.24	24	271	0.6	874.017	2.7384	1.8445	1.9	1.96	1.8	59.4	0.01	HDPE
CO-111	MH-5939	MH-6684	591.61	591.75	589.69	589.47	32.7	150	0.6	148.131	1.2489	0.19	1.9	1.77	2.13	27	0.011	HDPE
CO-112	MH-3408	MH-6683	591.79	591.8	590.83	590.76	9.2	150	0.6	140.307	1.2832	0.1781	0.9	0.82	0.89	26	0.011	HDPE
CO-113	MH-3532	MH-3945	588.5	588.58	586.04	585.9	25.2	150	0.6	177.703	1.1403	0.2394	2.4	2.31	2.53	41.9	0.011	HDPE
CO-114	MH-616	MH-3112	593.82	593.91	592.3	592.51	52	150	0.6	243.412	0.9743	0.3592	1.3	1.37	1.25	41	0.011	HDPE
CO-115	MH-3112	MH-6432	593.91	593.98	592.51	592.69	33	150	0.6	182.863	1.1241	0.2488	1.2	1.25	1.14	36.8	0.011	HDPE
CO-116	MH-5293	MH-5876	586.09	585.68	585.07	584.73	34.2	150	0.29	100	1.52	0.0105	0.8	0.87	0.8	6.2	0.011	HDPE
CO-117	MH-5876	MH-4861	585.68	585.65	581.71	581.6	20	150	0.6	173.432	1.1542	0.2322	3.9	3.81	3.9	31.2	0.011	HDPE
CO-118	MH-5221	MH-5738	581	582.13	579.84	580.07	91.4	175	0.6	407.972	1.2487	0.5803	1.4	0.98	1.89	48.2	0.01	HDPE
CO-120	MH-343	MH-727	581.43	581.54	580.37	580.36	10.1	150	0.14	1,000.00	0.4807	0.0127	1	0.91	1.03	11.7	0.011	HDPE
CO-121	MH-4313	MH-3508	580.35	579.96	578.83	578.56	26.7	600	2.29	100	61.2834	20.3613	0.9	0.92	0.8	53	0.011	HDPE
CO-122	MH-3508	MH-5129	579.96	579.84	578.56	578.44	34.5	600	1.55	290.807	35.9369	20.6117	0.8	0.8	0.8	53.2	0.011	HDPE
CO-123	MH-195	MH-1034	580.77	580.71	579.82	579.76	10.6	150	0.37	189.343	1.1047	0.0517	0.8	0.81	0.8	14.5	0.011	HDPE
CO-124	MH-2974	MH-3580	579.6	579.3	578.46	578.35	10.4	150	0.55	100	1.52	0.0886	0.9	1	0.8	17.6	0.011	HDPE
CO-125	MH-3580	MH-2975	579.3	579.13	578.24	578.11	12.9	150	0.6	104.278	1.4885	0.1224	0.9	0.92	0.86	20.8	0.011	HDPE
CO-126	MH-6641	MH-6025	583.15	585.3	582.2	581.03	177.5	150	0.6	152.414	1.2312	0.1973	2.5	0.8	4.12	34.9	0.011	HDPE
CO-127	MH-6025	MH-184	585.3	585.36	580.97	580.94	15.7	217	0.6	644.625	1.7629	1.1662	4.2	4.12	4.21	60	0.01	HDPE
CO-128	MH-374	MH-4076	583.74	584.11	582.42	582.4	20.2	150	0.22	1,000.00	0.4807	0.0657	1.4	1.17	1.56	26.7	0.011	HDPE
CO-130	MH-4076	MH-3838	584.11	584.48	582.4	582.37	20.9	150	0.24	1,000.00	0.4807	0.0868	1.8	1.56	1.96	26.6	0.011	HDPE
CO-131	MH-3838	MH-611	584.48	585.57	582.37	581.88	61	150	0.6	123.848	1.3659	0.1527	2.7	1.96	3.54	27.4	0.011	HDPE
CO-132	MH-5192	MH-4769	580.65	580.65	579.45	579.44	14.1	150	0.17	1,000.00	0.4807	0.0244	1.1	1.05	1.07	12.5	0.011	HDPE
CO-133	MH-3331	MH-5785	580.48	579.43	578.7	578.42	28.2	217	1.32	100	4.476	1.6782	1.2	1.56	0.8	60	0.01	HDPE
CO-135	MH-6581	MH-6687	580.87	580.95	579.77	580	48	150	0.33	207.142	1.0561	0.0358	0.9	0.95	0.8	14.7	0.011	HDPE
CO-136	MH-2455	MH-6688	581	580.88	576.61	576.53	80.4	800	1.06	1,000.00	41.7362	29.5629	3.6	3.59	3.55	59.6	0.011	HDPE
CO-137	MH-6688	MH-6009	580.88	580.77	576.53	576.45	76.5	800	1.06	1,000.00	41.7362	29.6043	3.5	3.55	3.51	57.6	0.011	HDPE
CO-138	MH-6234	MH-6689	579.33	578.4	573.92	573.82	100.9	800	1.07	1,000.00	41.7362	30.3955	4.2	4.62	3.78	63.8	0.011	HDPE
CO-139	MH-6689	MH-2499	578.4	577	573.82	573.67	151.1	800	1.07	1,000.00	41.7362	30.4329	3.2	3.78	2.53	66	0.011	HDPE
CO-140	MH-1445	MH-5748	577.9	577.59	576.05	575.99	25.4	175	0.6	433.798	1.2109	0.6354	1.6	1.67	1.43	50.9	0.01	HDPE
CO-141	MH-6197	MH-2415	586.64	587.36	585.3	585.5	50.5	150	0.6	248.511	0.9642	0.3702	1.5	1.19	1.71	41	0.011	HDPE
CO-144	MH-4312	MH-6691	575.26	575.04	573.17	573.15	21.8	900	1.21	1,000.00	57.1373	57.0452	1.1	1.19	0.99	58.1	0.011	HDPE
CO-146	MH-6691	MH-6692	575.04	573.91	572.46	572.1	110.4	900	1.97	300	106.7228	57.1191	1.3	1.67	0.91	52.5	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-148	MH-3605	MH-6161	580.99	581	579.04	578.98	8.9	150	0.6	167.173	1.1756	0.219	1.8	1.81	1.86	33	0.011	HDPE
CO-149	MH-6161	MH-3606	581	581.16	578.98	578.88	20.8	150	0.6	211.013	1.0464	0.2953	2	1.86	2.12	38.1	0.011	HDPE
CO-150	MH-3605	MH-6220	580.99	580.79	579.04	579.2	25.7	150	0.6	154.137	1.2243	0.2005	1.6	1.81	1.44	29.5	0.011	HDPE
CO-151	MH-6220	MH-6215	580.79	580.63	579.2	579.43	24.2	150	0.6	107.211	1.468	0.1285	1.2	1.44	1.06	25.9	0.011	HDPE
CO-152	MH-6215	MH-2215	580.63	580.51	579.43	579.44	16.2	150	0.18	1,000.00	0.4807	0.032	1	1.06	0.92	20.5	0.011	HDPE
CO-153	MH-186	MH-5418	578.33	578.55	576.59	576.49	16.1	150	0.6	174.506	1.1507	0.234	1.7	1.59	1.91	31.9	0.011	HDPE
CO-154	MH-5418	MH-165	578.55	578.77	576.49	576.41	15.4	150	0.6	189.013	1.1056	0.2568	2.1	1.91	2.2	33.2	0.011	HDPE
CO-155	MH-4477	MH-4653	583.92	583.6	582.75	582.65	9.8	150	0.5	100	1.52	0.063	0.9	1.02	0.8	14.8	0.011	HDPE
CO-156	MH-4653	MH-3851	583.6	583.03	582.26	582.08	17.8	150	0.51	100	1.52	0.0688	1	1.2	0.8	15.5	0.011	HDPE
CO-157	MH-1866	MH-6693	582.43	582.32	580.7	580.52	21.5	150	0.6	120.102	1.387	0.1465	1.6	1.58	1.65	25.1	0.011	HDPE
CO-158	MH-6693	MH-2021	582.32	582.08	580.52	580.31	26.9	150	0.6	129.875	1.3338	0.1603	1.6	1.65	1.61	26.2	0.011	HDPE
CO-159	MH-5228	MH-4654	583.78	583.42	582.75	582.47	28.8	150	0.29	100	1.52	0.0112	0.8	0.87	0.8	8.1	0.011	HDPE
CO-160	MH-5951	MH-197	585.47	585.06	584.43	584.11	32.9	150	0.32	100	1.52	0.0149	0.8	0.89	0.8	18.6	0.011	HDPE
CO-161	MH-5781	MH-5020	592.18	591.98	591.21	591.03	23.1	150	0.65	129.924	1.3335	0.2098	0.8	0.82	0.8	28	0.011	HDPE
CO-162	MH-2856	MH-826	572.05	571.87	570.21	570.28	15.2	150	0.6	225.603	1.012	0.3238	1.6	1.68	1.44	38.9	0.011	HDPE
CO-164	MH-6694	MH-1999	570.87	570.57	567.81	567.75	56.9	1,000.00	1.29	1,000.00	75.6728	68.0971	1.9	2.06	1.82	72.4	0.011	HDPE
CO-165	MH-5383	MH-6694	571.1	570.87	569.73	569.62	47.6	175	0.6	428.857	1.2179	0.624	1.1	1.2	1.08	46.2	0.01	HDPE
CO-166	MH-3252	MH-4692	572.78	572.73	571.83	571.78	17.6	150	0.37	352.793	0.8093	0.1077	0.8	0.8	0.8	22.9	0.011	HDPE
CO-167	MH-3874	MH-606	571.92	572.12	570.73	570.71	22.8	150	0.18	1,000.00	0.4807	0.03	1.2	1.04	1.26	23.9	0.011	HDPE
CO-168	MH-606	MH-157	572.12	572.49	571.14	571.3	21.5	150	0.6	135.423	1.3062	0.1685	0.9	0.83	1.05	25.1	0.011	HDPE
CO-169	MH-5384	MH-468	571.51	571.86	569.82	569.93	44.3	175	0.6	410.91	1.2442	0.586	1.6	1.51	1.75	47.9	0.01	HDPE
CO-170	MH-468	MH-606	571.86	572.12	570.61	570.71	15.6	150	0.6	160.329	1.2004	0.2085	1.2	1.09	1.26	28.6	0.011	HDPE
CO-171	MH-5909	MH-5976	575.35	574.51	573.81	573.56	25.4	150	0.55	100	1.52	0.0873	1.1	1.39	0.8	21.1	0.011	HDPE
CO-172	MH-5777	MH-5842	575.84	575.82	574.82	574.79	21.1	217	0.6	645.011	1.7624	1.1667	0.8	0.8	0.81	50.7	0.01	HDPE
CO-173	MH-5693	MH-6229	578.93	579.9	577.92	578.11	32.1	150	0.6	172.491	1.1574	0.2307	1.3	0.86	1.64	32.2	0.011	HDPE
CO-174	MH-6361	MH-5676	580.59	579.46	579.04	578.51	53.2	150	0.78	100	1.52	0.2847	1.1	1.4	0.8	31.7	0.011	HDPE
CO-175	MH-4326	MH-5036	580.59	581.02	579.64	579.9	25.8	150	0.7	100	1.52	0.1955	0.9	0.8	0.97	38.3	0.011	HDPE
CO-176	MH-5612	MH-5505	574.41	574.26	573.43	573.31	12.4	150	0.52	100	1.52	0.072	0.8	0.83	0.8	15.9	0.011	HDPE
CO-177	MH-3501	MH-2095	571.63	571.26	569.07	568.96	18.1	150	0.6	168.487	1.171	0.2232	2.3	2.41	2.14	30.7	0.011	HDPE
CO-178	MH-4965	MH-5779	570.18	569.53	568.46	568.21	43.5	150	0.65	173.524	1.1539	0.3119	1.4	1.57	1.17	37.6	0.011	HDPE
CO-179	MH-4618	MH-6695	569.23	568.95	565.34	565.32	22.4	1,100.00	1.35	1,000.00	97.5709	79.1823	2.7	2.79	2.53	52.4	0.011	HDPE
CO-181	MH-6695	MH-6696	568.95	566.76	565.32	564.75	173.7	1,100.00	2.14	302.557	181.4739	79.2702	1.7	2.53	0.91	47.3	0.011	HDPE
CO-182	MH-6696	MH-4974	566.76	565.56	563.85	563.55	91.4	1,100.00	2.14	300	182.2458	79.4882	1.4	1.81	0.91	47.3	0.011	HDPE
CO-183	MH-4491	MH-6517	561.21	564.09	559.31	559.45	92.1	1,100.00	1.65	652.955	120.7477	93.6656	2.2	0.8	3.54	58.1	0.011	HDPE
CO-185	MH-3608	MH-6673	572.59	572.23	571.47	571.28	19.3	150	0.37	100	1.52	0.0228	0.9	0.96	0.8	9	0.011	HDPE
CO-187	MH-3501	MH-6673	571.63	572.23	569.07	569.28	25.2	150	0.6	120.933	1.3822	0.1478	2.6	2.41	2.8	27.5	0.011	HDPE
CO-195	MH-3018	MH-613	566.07	565.91	564.84	564.81	16.1	175	0.6	435.383	1.2087	0.639	1	1.05	0.93	47.7	0.01	HDPE
CO-305	MH-6262	MH-6718	566.4	566.7	565.42	565.75	100.5	150	0.38	307.275	0.8671	0.0941	0.8	0.83	0.8	24.7	0.011	HDPE
CO-306	MH-6319	MH-6262	568.09	566.4	565.67	565.42	90.2	150	0.6	368.208	0.7921	0.7196	1.5	2.27	0.83	64.6	0.011	HDPE
CO-372	MH-4091	MH-6746	558	558.49	555.99	555.94	41.5	1,100.00	1.38	1,000.00	97.5709	96.1667	1.2	0.91	1.45	72.2	0.011	HDPE
CO-374	MH-6746	MH-6747	558.49	559.03	555.94	555.9	46.2	1,100.00	1.38	1,000.00	97.5709	96.2666	1.7	1.45	2.04	70.6	0.011	HDPE
CO-376	MH-6747	MH-6748	559.03	559.42	555.9	555.87	32.8	1,100.00	1.38	1,000.00	97.5709	96.4278	2.2	2.04	2.46	68.6	0.011	HDPE
CO-377	MH-6748	MH-6457	559.42	559.87	555.87	555.83	37.9	1,100.00	1.39	1,000.00	97.5709	96.5811	2.7	2.46	2.94	65.9	0.011	HDPE
CO-378	MH-6457	MH-6749	559.87	559.93	555.73	555.69	39.7	1,200.00	1.42	1,000.00	123.0523	97.9352	3	2.94	3.04	67.1	0.011	HDPE
CO-380	MH-6749	MH-6750	559.93	560.01	555.69	555.64	48.2	1,200.00	1.42	1,000.00	123.0523	98.1356	3.1	3.04	3.17	67.3	0.011	HDPE
CO-382	MH-6750	MH-6751	560.01	560.12	555.64	555.57	65.6	1,200.00	1.42	1,000.00	123.0523	98.319	3.3	3.17	3.34	67.5	0.011	HDPE
CO-384	MH-6751	MH-6752	560.12	560.3	555.57	555.46	113.7	1,200.00	1.43	1,000.00	123.0523	98.7939	3.5	3.34	3.64	68	0.011	HDPE
CO-385	MH-6752	MH-6559	560.3	560.46	555.46	555.36	96	1,200.00	1.43	1,000.00	123.0523	99.4266	3.8	3.64	3.9	68.7	0.011	HDPE
CO-388	MH-6564	MH-6754	560.89	560.6	559.82	559.53	80.7	271	1.11	279.46	4.8427	4.1798	0.8	0.8	0.8	71.8	0.01	HDPE
CO-389	MH-6754	MH-6560	560.6	560.26	559.53	559.18	97	271	1.12	279.46	4.8427	4.3888	0.8	0.8	0.8	69.8	0.01	HDPE
CO-413	MH-351	MH-2732	597.12	597.33	594.45	594.36	17.8	150	0.6	193.548	1.0926	0.2651	2.7	2.52	2.82	33.2	0.011	HDPE
CO-438	MH-6508	MH-5185	563.25	562.49	561.98	561.48	50.7	217	1.22	100	4.476	1.2453	0.9	1.05	0.8	58.5	0.01	HDPE
CO-439	MH-4948	MH-5801	560.46	559.68	559.2	558.66	54.3	217	1.12	101.336	4.4464	0.9235	0.9	1.05	0.8	35	0.01	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-455	MH-5267	MH-205	600.07	599.61	599.09	598.63	45.6	175	1.07	100	2.5221	0.7367	0.8	0.81	0.8	41.4	0.01	HDPE
CO-456	MH-6635	MH-6783	600.53	602.69	599.58	601.07	149	150	0.51	100	1.52	0.0673	1.1	0.8	1.47	15.3	0.011	HDPE
CO-458	MH-6625	MH-6784	599.71	599.65	598.76	598.48	40.1	150	0.6	143.623	1.2683	0.1829	0.9	0.8	1.02	34.7	0.011	HDPE
CO-459	MH-6784	MH-1082	599.65	599.55	598.48	598.24	57.2	150	0.6	245.921	0.9693	0.3648	1.1	1.02	1.15	48.5	0.011	HDPE
CO-460	MH-6635	MH-6784	600.53	599.65	599.07	598.7	37.3	150	0.63	100	1.52	0.1392	1.1	1.31	0.8	22	0.011	HDPE
CO-461	MH-6606	MH-1082	600.46	599.55	599.04	598.6	44.2	150	0.59	100	1.52	0.109	1	1.27	0.8	19.5	0.011	HDPE
CO-462	MH-6620	MH-206	600.04	599.61	598.99	598.66	34	150	0.48	100	1.52	0.0563	0.8	0.9	0.8	14	0.011	HDPE
CO-463	MH-4568	MH-4668	593.66	595.27	592.46	593.06	60.2	400	1.39	100	20.7858	3.0557	1.3	0.8	1.81	33.2	0.011	HDPE
CO-464	MH-6612	MH-6785	594.16	594.63	593.21	593.54	61.8	150	0.71	182.29	1.1258	0.4645	0.9	0.8	0.93	44.3	0.011	HDPE
CO-466	MH-7	MH-6785	595.14	594.63	593.59	593.54	12.8	150	0.6	275.227	0.9162	0.4278	1.2	1.4	0.93	46	0.011	HDPE
CO-468	MH-6612	MH-6787	594.16	593	592.32	592.05	26.5	150	0.93	100	1.52	0.5468	1.2	1.69	0.8	44.7	0.011	HDPE
CO-471	MH-6787	MH-6788	593	592.67	592.02	591.72	30.3	150	0.96	100	1.52	0.6074	0.8	0.83	0.8	47.3	0.011	HDPE
CO-472	MH-6788	MH-6789	592.67	592.5	591.47	591.3	27.4	400	1.23	164.34	16.2142	3.7498	0.8	0.8	0.8	34.6	0.011	HDPE
CO-473	MH-6398	MH-6790	590.96	591.15	589.75	589.95	19.6	400	1.48	100.499	20.7341	3.8029	0.8	0.81	0.8	37.3	0.011	HDPE
CO-474	MH-6790	MH-293	591.15	591.72	590.2	590.77	60.4	150	0.35	105.891	1.4771	0.0215	0.8	0.8	0.8	8.8	0.011	HDPE
CO-475	MH-6789	MH-6790	592.5	591.15	590.25	589.95	30	400	1.48	100	20.7858	3.7699	1.3	1.85	0.8	37	0.011	HDPE
CO-476	MH-49	MH-6192	596.5	596.31	595.55	595.36	18.6	150	0.32	100.238	1.5182	0.0148	0.8	0.8	0.8	9.6	0.011	HDPE
CO-477	MH-6788	MH-6791	592.67	593.38	591.47	592.18	90.1	400	1.29	125.713	18.5386	3.1007	0.8	0.8	0.8	35.1	0.011	HDPE
CO-478	MH-6791	MH-4568	593.38	593.66	592.18	592.46	34.3	400	1.28	125.713	18.5386	3.0731	0.8	0.8	0.8	33.3	0.011	HDPE
CO-479	MH-6398	MH-6252	590.96	590.71	589.75	589.51	24.3	400	1.49	100	20.7858	3.8995	0.8	0.81	0.8	37.8	0.011	HDPE
CO-480	MH-410	MH-463	590.92	591.05	589.97	590.09	11.4	150	0.55	100	1.52	0.0853	0.8	0.8	0.82	17.3	0.011	HDPE
CO-481	MH-5873	MH-5122	590.23	590.16	588.98	588.84	40.9	400	1.08	278.657	12.4518	4.6302	0.9	0.85	0.92	41.4	0.011	HDPE
CO-482	MH-85	MH-1419	591.66	591.74	590.07	590.18	27.9	150	0.6	259.163	0.9442	0.3916	1.4	1.44	1.41	44.9	0.011	HDPE
CO-483	MH-2233	MH-2234	599.97	599.68	598.65	598.66	6.3	217	0.6	520.41	1.9621	0.8364	1	1.1	0.8	40.5	0.01	HDPE
CO-484	MH-6244	MH-4052	597.21	596.44	592.99	593.16	28.5	150	0.6	164.602	1.1848	0.2154	3.6	4.07	3.13	32.4	0.011	HDPE
CO-486	MH-1154	MH-6793	595.57	594.8	592.3	592.17	32.6	150	0.6	261.404	0.9401	0.3964	2.8	3.12	2.48	47.4	0.011	HDPE
CO-487	MH-6793	MH-6236	594.8	593.46	592.17	591.98	56.8	150	0.6	288.984	0.8942	0.4595	1.9	2.48	1.34	47.2	0.011	HDPE
CO-488	MH-6792	MH-6793	594.7	594.8	593.75	593.7	46.8	150	0.19	1,000.00	0.4807	0.0383	0.9	0.8	0.94	15.6	0.011	HDPE
CO-489	MH-638	MH-6267	600.62	599.75	599.29	598.8	48.3	150	0.86	100	1.52	0.4199	1	1.19	0.8	38.9	0.011	HDPE
CO-490	MH-6496	MH-6237	594.36	594.37	593.39	593.21	85.2	175	0.6	480.168	1.151	0.7482	0.9	0.8	0.98	52.3	0.01	HDPE
CO-491	MH-113	MH-768	591.47	591.85	590.27	590.58	31.2	400	1.52	100	20.7858	4.1291	0.8	0.8	0.87	34.3	0.011	HDPE
CO-492	MH-6311	MH-6794	597.42	598.06	596.47	597.04	57	150	0.97	100	1.52	0.6348	0.8	0.8	0.87	48.4	0.011	HDPE
CO-493	MH-6794	MH-4811	598.06	598.23	597.11	597.27	15.5	150	0.96	100	1.52	0.6156	0.8	0.8	0.82	47.7	0.011	HDPE
CO-494	MH-2184	MH-267	605.81	606.05	604.86	605.1	48	150	0.2	198.497	1.0789	0.0073	0.8	0.8	0.8	5.6	0.011	HDPE
CO-495	MH-5867	MH-5674	608.82	607.46	607.19	606.51	67.6	150	0.7	100	1.52	0.1978	1.1	1.48	0.8	26.3	0.011	HDPE
CO-496	MH-6429	MH-6208	607.24	607.01	606.26	606.03	80.1	175	0.69	353.249	1.3419	0.8053	0.8	0.8	0.8	51.8	0.01	HDPE
CO-497	MH-6004	MH-6379	605.64	604.77	604.27	603.82	44.9	150	0.63	100	1.52	0.1426	1	1.22	0.8	22.3	0.011	HDPE
CO-498	MH-5834	MH-6795	596.49	595	594.1	593.6	88.1	600	1.65	176.394	46.1425	12.9339	1.3	1.79	0.8	38.6	0.011	HDPE
CO-499	MH-6795	MH-6796	595	593.5	592.91	592.1	81.1	600	2.03	100	61.2834	13.143	1.1	1.49	0.8	36.4	0.011	HDPE
CO-500	MH-6796	MH-5529	593.5	592.34	591.92	590.94	98.5	600	2.04	100	61.2834	13.2843	0.9	0.98	0.8	36.6	0.011	HDPE
CO-502	MH-6797	MH-61	587.31	586.95	585.66	585.55	11.1	600	2.25	100	61.2834	19.1492	0.9	1.05	0.8	55.1	0.011	HDPE
CO-503	MH-4711	MH-6797	587.24	587.31	586.26	586.08	27.1	175	0.93	149.284	2.0642	0.7512	0.9	0.8	1.05	44	0.01	HDPE
CO-505	MH-6798	MH-6797	587.5	587.31	586.01	585.91	10.1	600	2.23	100	61.2834	18.3938	0.8	0.89	0.8	44.6	0.011	HDPE
CO-507	MH-6799	MH-6798	587.87	587.5	586.3	586.1	19.9	600	2.23	100	61.2834	18.3898	0.9	0.98	0.8	43.9	0.011	HDPE
CO-509	MH-6800	MH-6799	589.17	587.87	587.16	586.47	68.2	600	2.23	100	61.2834	18.3644	1.1	1.41	0.8	43.4	0.011	HDPE
CO-510	MH-5270	MH-6801	590.35	589.51	588.55	588.11	44.8	600	2.23	100	61.2834	18.3342	1	1.2	0.8	43.4	0.011	HDPE
CO-511	MH-6801	MH-6800	589.51	589.17	587.95	587.77	17.9	600	2.23	100	61.2834	18.3427	0.9	0.96	0.8	43.9	0.011	HDPE
CO-512	MH-62	MH-6802	586.95	587	584.87	584.81	55.9	700	0.97	1,000.00	29.2326	20.3259	1.4	1.38	1.49	58.8	0.011	HDPE
CO-514	MH-6802	MH-6804	587	587.08	584.81	584.74	74.8	700	0.97	1,000.00	29.2326	20.4139	1.6	1.49	1.64	56.5	0.011	HDPE
CO-516	MH-6804	MH-6805	587.08	587.11	584.74	584.7	38.5	700	0.97	1,000.00	29.2326	20.4661	1.7	1.64	1.72	48.9	0.011	HDPE
CO-517	MH-6805	MH-4257	587.11	587.23	584.7	583.93	111.5	700	1.98	146.208	76.4509	20.497	2.2	1.72	2.59	52.5	0.011	HDPE
CO-518	MH-6528	MH-6806	565.45	565.03	560.51	560.47	34.4	1,100.00	1.38	1,000.00	97.5709	92.6678	3.7	3.84	3.46	67.9	0.011	HDPE
CO-519	MH-6806	MH-6517	565.03	564.09	560.47	560.4	78.1	1,100.00	1.38	1,000.00	97.5709	93.0163	3	3.46	2.6	59.8	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-520	MH-4648	MH-6806	565.67	565.03	564.34	564.08	25.3	150	0.74	100	1.52	0.2451	1	1.18	0.8	29.4	0.011	HDPE
CO-521	MH-6100	MH-6807	585.03	584.5	584.08	583.52	119.2	150	0.84	214.519	1.1416	0.8769	0.8	0.8	0.83	66.2	0.01	HDPE
CO-522	MH-6807	MH-6039	584.5	584.12	583.52	583.17	35.7	150	1.17	100	1.672	1.0394	0.8	0.83	0.8	62	0.01	HDPE
CO-528	MH-31	MH-6812	579.23	577.84	576.21	575.46	76.3	150	0.6	100.473	1.5164	0.1178	2.6	2.87	2.23	32.9	0.011	HDPE
CO-529	MH-6812	MH-6434	577.84	577.68	575.33	575.32	8.8	271	0.6	971.631	2.5972	2.2971	2.2	2.23	2.08	68.6	0.01	HDPE
CO-530	MH-6224	MH-6812	578.4	577.84	576.06	575.33	76	271	1.37	104.911	7.9039	2.1534	2.2	2.07	2.23	57.4	0.01	HDPE
CO-531	MH-1968	MH-6813	577	577	575.47	574.84	159.7	700	1.66	254.177	57.9829	22.56	1.1	0.83	1.46	52	0.011	HDPE
CO-532	MH-6813	MH-6463	577	577	574.84	574.82	24.4	700	1.01	1,000.00	29.2326	24.9155	1.5	1.46	1.48	53.2	0.011	HDPE
CO-533	MH-6434	MH-6813	577.68	577	575.32	575.27	51	271	0.6	975.032	2.5926	2.3223	1.8	2.08	1.46	58	0.01	HDPE
CO-536	MH-6692	MH-6815	573.91	572.87	571.39	571.05	102	900	1.98	300	106.7228	57.2686	1.3	1.62	0.91	52.6	0.011	HDPE
CO-537	MH-6815	MH-6138	572.87	572.47	570.79	570.66	39.1	900	1.98	300	106.7228	57.3562	1	1.18	0.91	52.6	0.011	HDPE
CO-538	MH-4821	MH-6816	572	571.52	568.02	567.93	90.2	1,000.00	1.29	1,000.00	75.6728	67.3796	2.8	2.98	2.58	72.3	0.011	HDPE
CO-540	MH-6816	MH-6817	571.52	571.29	567.93	567.89	42.8	1,000.00	1.29	1,000.00	75.6728	67.4048	2.5	2.58	2.4	72.4	0.011	HDPE
CO-541	MH-6817	MH-6694	571.29	570.87	567.89	567.81	79.5	1,000.00	1.29	1,000.00	75.6728	67.4207	2.2	2.4	2.06	72.4	0.011	HDPE
CO-542	MH-147	MH-6818	570.36	570.25	569.39	569.22	48.4	150	0.6	281.469	0.906	0.4417	0.9	0.82	0.88	54	0.011	HDPE
CO-543	MH-6818	MH-4395	570.25	570.12	569.22	569.17	18.5	150	0.64	349.971	0.8938	0.6039	0.8	0.88	0.8	55.2	0.01	HDPE
CO-5	MH-2	MH-6377	600.39	599.92	599.1	598.9	19.5	217	1.52	100	4.476	2.9051	0.9	1.08	0.8	64.6	0.01	HDPE
ZONE 235-5805	MH-3230	MH-3231	577.02	576.73	575.96	575.78	18.1	150	0.58	100	1.52	0.1066	0.9	0.9	0.8	19.3	0.011	HDPE
ZONE 235-3941	MH-655	MH-656	579.34	579.35	576.36	576.42	24.1	150	0.6	359.574	0.8818	0.48	2.8	2.84	2.77	48.6	0.01	HDPE
ZONE 235-4501	MH-759	MH-760	602.98	602.97	602.03	601.88	41.3	150	0.6	269.842	0.9253	0.4156	0.9	0.8	0.94	44.2	0.011	HDPE
ZONE 235-5797	MH-848	MH-849	578.56	578.54	577.6	577.59	0.7	150	0.3	100	1.52	0.0115	0.8	0.81	0.8	8.9	0.011	HDPE
ZONE 235-3794	MH-291	MH-292	582.45	582.45	581.21	581.14	9.7	150	0.6	132.272	1.3216	0.1638	1.1	1.09	1.16	24.7	0.011	HDPE
ZONE 235-4581	MH-133	MH-3012	602.73	602.67	601.36	601.38	23.5	150	0.19	1,000.00	0.4807	0.0359	1.2	1.22	1.13	21.6	0.011	HDPE
ZONE 235-18	MH-31	MH-32	579.23	579.23	578.28	578.28	0	150	0.16	(N/A)	0	0.0191	0.8	0.8	0.8	9.6	0.011	HDPE
ZONE 235-4370	MH-51	MH-52	600.91	600.91	599.96	599.92	12.3	150	0.6	258.957	0.9446	0.3911	0.8	0.8	0.85	42.5	0.011	HDPE
ZONE 235-3710	MH-715	MH-716	577.02	577.03	575.84	575.89	22.3	175	0.6	453.993	1.1837	0.6819	1	1.01	0.96	53.9	0.01	HDPE
ZONE 235-3663	MH-775	MH-776	581.3	581.31	577.87	577.72	32.7	150	0.6	232.332	0.9972	0.3363	3.4	3.29	3.43	42.2	0.011	HDPE
ZONE 235-6488	MH-2439	MH-1969	581.61	581.55	580.66	580.6	13.3	150	0.34	203.265	1.0662	0.0421	0.8	0.8	0.8	13.2	0.011	HDPE
ZONE 235-1774	MH-147	MH-148	570.36	570.36	569.39	569.41	20.8	150	0.19	1,000.00	0.4807	0.038	0.8	0.82	0.8	42	0.011	HDPE
ZONE 235-1769	MH-161	MH-162	570.56	570.56	569.61	569.56	9.5	150	0.64	211.483	1.0452	0.3827	0.8	0.8	0.84	41.1	0.011	HDPE
ZONE 235-3830	MH-203	MH-204	580.92	580.92	579.97	579.87	14	150	0.86	137.44	1.4262	0.4796	0.9	0.8	0.9	45.4	0.01	HDPE
ZONE 235-4352	MH-207	MH-208	602.25	602.25	601.3	601.3	0	150	0.1	(N/A)	0	0.0047	0.8	0.8	0.8	5	0.011	HDPE
ZONE 235-4235	MH-293	MH-294	591.72	591.72	590.77	590.77	0	150	0.2	(N/A)	0	0.015	0.8	0.8	0.8	9.3	0.011	HDPE
ZONE 235-1785	MH-301	MH-302	572.04	572.04	570.37	570.17	26.1	150	0.6	130.281	1.3317	0.1612	1.6	1.51	1.71	24.5	0.011	HDPE
ZONE 235-4337	MH-329	MH-330	601.25	601.25	600.23	600.3	8.5	150	0.6	136.231	1.3023	0.1726	0.8	0.86	0.8	25.5	0.011	HDPE
ZONE 235-6011	MH-1093	MH-1094	578.7	578.73	577.22	577.22	4.1	150	0.26	1,000.00	0.4807	0.1082	1.3	1.33	1.36	40.3	0.011	HDPE
ZONE 235-4330	MH-389	MH-390	600.76	600.76	599.81	599.81	0.1	150	0.6	(N/A)	0	0.1222	0.8	0.8	0.8	21.2	0.011	HDPE
ZONE 235-4389	MH-1150	MH-21	601.04	600.97	600.06	600.02	4	150	0.49	100	1.52	0.0582	0.8	0.84	0.8	18.9	0.011	HDPE
ZONE 235-1972	MH-437	MH-438	588.7	588.71	587.75	587.76	0.1	150	0.19	(N/A)	0	0.0068	0.8	0.8	0.8	5.5	0.011	HDPE
ZONE 235-1556	MH-2292	MH-2126	587.15	587	585.22	585.1	12.3	150	0.6	103.857	1.4915	0.1246	1.8	1.78	1.75	28	0.011	HDPE
ZONE 235-4390	MH-479	MH-480	601.72	601.72	600.13	600.13	0.1	150	0.15	(N/A)	0	0.0173	1.4	1.43	1.43	18.2	0.011	HDPE
ZONE 235-4220	MH-93	MH-94	595.47	595.47	594.07	594.09	15.6	150	0.19	1,000.00	0.4807	0.041	1.2	1.25	1.23	34	0.011	HDPE
ZONE 235-4456	MH-509	MH-510	594.86	594.86	593.91	593.91	0.1	150	0.14	(N/A)	0	0.0147	0.8	0.8	0.8	31.1	0.011	HDPE
ZONE 235-4507	MH-511	MH-512	604.32	604.33	602.08	602.1	24.6	271	0.6	943.645	2.6354	2.133	2	1.97	1.95	53.5	0.01	HDPE
ZONE 235-1788	MH-515	MH-516	571.89	571.89	569.05	569.01	15.5	175	0.6	443.29	1.1979	0.6571	2.7	2.67	2.7	47.9	0.01	HDPE
ZONE 235-1553	MH-1862	MH-1863	587.56	587.42	586.21	586.2	9.8	150	0.22	1,000.00	0.4807	0.0606	1.1	1.2	1.07	19.3	0.011	HDPE
ZONE 235-4153	MH-3358	MH-3359	566.5	566.74	565.55	565.38	19.4	150	0.41	114.465	1.4207	0.0377	1	0.8	1.21	19	0.011	HDPE
ZONE 235-5020	MH-555	MH-556	581.25	581.25	580.22	580.23	12	217	0.6	669.563	1.7298	1.2485	0.8	0.82	0.8	53.6	0.01	HDPE
ZONE 235-3616	MH-567	MH-568	578.67	578.67	576.58	576.58	0.2	175	0.6	466.622	1.1676	0.7128	1.9	1.92	1.92	56.2	0.01	HDPE
ZONE 235-1573	MH-1811	MH-1899	584.06	584.21	582.38	582.37	10.1	150	0.25	1,000.00	0.4807	0.0962	1.6	1.52	1.68	32	0.011	HDPE
ZONE 235-4440	MH-601	MH-602	595.8	595.79	594.85	594.84	0.2	150	0.6	100	1.52	0.1184	0.8	0.8	0.8	20.8	0.011	HDPE
ZONE 235-4261	MH-1	MH-2	590.69	590.69	589.07	589.09	14.2	400	0.65	1,000.00	6.573	4.0619	1.2	1.22	1.2	56.8	0.011	HDPE
ZONE 235-4726	MH-615	MH-616	593.82	593.82	592.27	592.27	0.2	175	0.6	418.001	1.2336	0.6005	1.4	1.37	1.37	48.9	0.01	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3771	MH-1364	MH-1365	581.44	581.5	580.49	580.55	7.7	150	0.47	119.814	1.3887	0.0666	0.8	0.8	0.8	15.6	0.011	HDPE
ZONE 235-1746	MH-9	MH-10	581.14	581.14	578.13	578.16	17.3	217	0.6	514.527	1.9733	0.8227	2.8	2.79	2.76	44.8	0.01	HDPE
ZONE 235-4186	MH-11	MH-12	599.09	599.09	598.14	598.14	0	150	0.19	(N/A)	0	0.0383	0.8	0.8	0.8	18.8	0.011	HDPE
ZONE 235-4969	MH-635	MH-636	601.79	601.79	600.84	600.84	0.2	150	0.63	100	1.52	0.1391	0.8	0.8	0.8	22.6	0.011	HDPE
ZONE 235-6641	MH-17	MH-18	588.25	588.25	587.05	587.05	0	400	1.36	(N/A)	0	4.7639	0.8	0.8	0.8	59.8	0.011	HDPE
ZONE 235-4386	MH-21	MH-22	600.97	600.97	600.02	600.01	4.8	150	0.22	1,000.00	0.4807	0.0636	0.8	0.8	0.8	19.3	0.011	HDPE
ZONE 235-3765	MH-23	MH-24	581.05	581.05	580.04	580.04	0	150	0.25	(N/A)	0	0.0996	0.9	0.86	0.86	21.5	0.011	HDPE
ZONE 235-4461	MH-27	MH-28	599.65	599.65	598.7	598.7	0	150	0.19	(N/A)	0	0.0345	0.8	0.8	0.8	12.8	0.011	HDPE
ZONE 235-4182	MH-45	MH-46	598.22	598.22	597.02	597.02	0	400	0.62	(N/A)	0	2.574	0.8	0.8	0.8	31.1	0.01	HDPE
ZONE 235-4288	MH-53	MH-54	594.74	594.74	593.53	593.54	7.6	400	0.63	1,000.00	7.2303	2.6906	0.8	0.81	0.8	49.7	0.01	HDPE
ZONE 235-5766	MH-1435	MH-3125	572.57	572.01	570.29	570.18	17.5	271	1.12	153.773	6.5285	1.7168	1.8	2.01	1.56	41	0.01	HDPE
ZONE 235-6666	MH-61	MH-62	586.95	586.95	585.55	585.54	8.2	600	0.92	1,000.00	19.3795	19.1508	0.8	0.8	0.81	55.1	0.011	HDPE
ZONE 235-34	MH-1967	MH-1968	577	577	575.91	575.9	10.2	271	0.6	855.355	2.7681	1.7761	0.8	0.82	0.83	46.5	0.01	HDPE
ZONE 235-3758	MH-67	MH-68	579.67	579.67	578.26	578.26	0	150	0.17	(N/A)	0	0.0262	1.3	1.26	1.26	16.4	0.011	HDPE
ZONE 235-4394	MH-69	MH-70	600.47	600.47	599.52	599.52	0	150	0.11	(N/A)	0	0.0061	0.8	0.8	0.8	5.6	0.011	HDPE
ZONE 235-3654	MH-703	MH-704	580.56	580.56	578.88	578.83	6.4	150	0.6	124.689	1.3612	0.1542	1.6	1.53	1.58	25.3	0.011	HDPE
ZONE 235-4360	MH-71	MH-72	603.68	603.68	602.73	602.73	0	150	0.23	(N/A)	0	0.0772	0.8	0.8	0.8	18.9	0.011	HDPE
ZONE 235-4402	MH-79	MH-80	599.79	599.79	598.84	598.84	0	150	0.19	(N/A)	0	0.038	0.8	0.8	0.8	13.4	0.011	HDPE
ZONE 235-4300	MH-81	MH-82	594.95	594.95	593.86	593.88	14.4	271	0.6	934.651	2.648	2.0951	0.8	0.82	0.8	63.1	0.01	HDPE
ZONE 235-4228	MH-7	MH-8	595.14	595.14	593.59	593.64	12.4	150	0.6	275.227	0.9162	0.4278	1.4	1.4	1.35	47.4	0.011	HDPE
ZONE 235-4290	MH-111	MH-112	599.8	599.8	598.85	598.85	0	150	0.24	(N/A)	0	0.0831	0.8	0.8	0.8	19.6	0.011	HDPE
ZONE 235-4600	MH-113	MH-114	591.47	591.47	589.73	589.52	24.7	400	1.5	117.563	19.1704	4.8782	1.4	1.34	1.55	42.3	0.011	HDPE
ZONE 235-4589	MH-133	MH-134	602.73	602.73	601.78	601.78	0	150	0.09	(N/A)	0	0.0028	0.8	0.8	0.8	3.8	0.011	HDPE
ZONE 235-4454	MH-151	MH-152	594.89	594.89	593.82	593.81	15.4	271	0.6	958.48	2.6149	2.2213	0.8	0.8	0.82	64	0.01	HDPE
ZONE 235-1710	MH-165	MH-166	578.77	578.77	576.41	576.41	0	150	0.6	(N/A)	0	0.2724	2.2	2.2	2.2	34	0.011	HDPE
ZONE 235-3977	MH-189	MH-190	565.5	565.5	564.52	564.55	26.2	150	0.23	1,000.00	0.4807	0.0766	0.8	0.83	0.8	22.1	0.011	HDPE
ZONE 235-4967	MH-881	MH-882	598.91	598.9	597.95	597.95	0.9	150	0.19	1,000.00	0.4807	0.038	0.8	0.81	0.8	14	0.011	HDPE
ZONE 235-1525	MH-2109	MH-2110	588.27	588.12	587.28	587.17	11.3	150	0.5	100	1.52	0.0649	0.8	0.85	0.8	15	0.011	HDPE
ZONE 235-4190	MH-205	MH-206	599.61	599.61	598.54	598.48	45.9	271	0.6	889.915	2.7138	1.9034	0.8	0.8	0.85	51	0.01	HDPE
ZONE 235-3792	MH-893	MH-894	581.7	581.69	580.68	580.59	12.7	150	0.6	140.916	1.2805	0.179	0.9	0.87	0.95	27.2	0.011	HDPE
ZONE 235-4171	MH-897	MH-898	602.62	602.65	601.16	601.18	9.6	217	0.6	545.349	1.9167	0.8963	1.3	1.25	1.26	42.5	0.01	HDPE
ZONE 235-4055	MH-211	MH-212	572.34	572.34	569.92	569.92	0	217	0.6	(N/A)	0	0.8627	2.2	2.21	2.21	39.4	0.01	HDPE
ZONE 235-3881	MH-477	MH-934	577.79	577.8	576.15	576.13	18.3	150	0.26	1,000.00	0.4807	0.115	1.5	1.49	1.52	27.6	0.011	HDPE
ZONE 235-3652	MH-289	MH-943	580.73	580.72	579.09	579.08	11.1	150	0.24	1,000.00	0.4807	0.0823	1.5	1.49	1.49	22.9	0.011	HDPE
ZONE 235-4177	MH-1658	MH-1659	600.35	600.17	599.31	599.22	8.5	150	0.37	100	1.52	0.0234	0.8	0.89	0.8	9.1	0.011	HDPE
ZONE 235-3642	MH-245	MH-246	582.26	582.26	581.31	581.1	24.1	150	0.67	115.061	1.417	0.2061	0.9	0.8	1.01	32.5	0.011	HDPE
ZONE 235-5061	MH-962	MH-963	567.07	567.06	565.21	565.1	69.4	217	0.6	640.768	1.7682	1.1539	1.7	1.65	1.74	51.1	0.01	HDPE
ZONE 235-60	MH-641	MH-983	581.01	580.99	579.97	579.97	8.5	150	0.2	1,000.00	0.4807	0.0415	0.9	0.89	0.87	16	0.011	HDPE
ZONE 235-3804	MH-992	MH-993	581.49	581.45	580.54	580.5	13.7	150	0.37	364.219	0.7965	0.103	0.8	0.8	0.8	22.2	0.011	HDPE
ZONE 235-5084	MH-1060	MH-1061	560.47	560.46	559.52	559.33	27.4	150	0.6	138.806	1.2902	0.176	0.9	0.8	0.98	25.8	0.011	HDPE
ZONE 235-3604	MH-321	MH-322	577.87	577.87	575.3	575.29	0.1	150	0.6	(N/A)	0	0.3759	2.4	2.43	2.43	43.1	0.011	HDPE
ZONE 235-4396	MH-335	MH-336	600.32	600.32	599.25	599.25	0.1	150	0.15	(N/A)	0	0.015	0.9	0.91	0.91	8.6	0.011	HDPE
ZONE 235-4214	MH-337	MH-338	595.8	595.8	594.44	594.44	0.1	150	0.6	(N/A)	0	0.2537	1.2	1.2	1.2	32.7	0.011	HDPE
ZONE 235-1810	MH-339	MH-340	573.21	573.21	572.12	572.12	0.1	150	0.19	(N/A)	0	0.0397	0.9	0.94	0.94	13.7	0.011	HDPE
ZONE 235-3763	MH-4097	MH-23	580.76	581.05	579.81	580	19.6	150	0.59	100	1.52	0.1145	0.8	0.8	0.9	20	0.011	HDPE
ZONE 235-1330	MH-1101	MH-1102	587.43	587.39	586.42	586.42	4.1	150	0.2	1,000.00	0.4807	0.0413	0.8	0.85	0.82	15.5	0.011	HDPE
ZONE 235-4336	MH-1773	MH-1774	601.84	601.65	600.79	600.7	9.2	150	0.69	100	1.52	0.1918	0.9	0.9	0.8	25.9	0.011	HDPE
ZONE 235-5001	MH-373	MH-374	583.74	583.74	582.69	582.68	11	150	0.14	1,000.00	0.4807	0.0144	0.9	0.89	0.9	9.7	0.011	HDPE
ZONE 235-3934	MH-393	MH-394	579.93	579.93	578.98	578.98	0.1	150	0.09	(N/A)	0	0.0035	0.8	0.8	0.8	4.3	0.011	HDPE
ZONE 235-4405	MH-14	MH-2270	600.05	600.15	598.7	598.69	12.1	150	0.24	1,000.00	0.4807	0.0819	1.3	1.2	1.31	28.7	0.011	HDPE
ZONE 235-4657	MH-976	MH-1154	596.25	595.57	592.59	592.3	72.1	150	0.6	242.797	0.9755	0.3578	3.3	3.51	3.12	43	0.011	HDPE
ZONE 235-3995	MH-431	MH-432	565.44	565.43	562.85	562.75	25.4	150	0.6	261.554	0.9399	0.3967	2.5	2.44	2.53	45.8	0.011	HDPE
ZONE 235-3704	MH-469	MH-470	577.62	577.62	576.35	576.34	12.1	150	0.2	1,000.00	0.4807	0.0421	1.1	1.12	1.13	26.1	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-5822	MH-1276	MH-1277	580.86	580.85	579.91	579.9	6.1	150	0.29	484.839	0.6903	0.0641	0.8	0.8	0.8	21.9	0.011	HDPE
ZONE 235-4358	MH-521	MH-522	604.17	604.17	603.22	603.22	0.1	150	0.35	(N/A)	0	0.0349	0.8	0.8	0.8	11.8	0.011	HDPE
ZONE 235-3945	MH-549	MH-550	579.94	579.94	576.48	576.52	12.4	150	0.6	264.435	0.9347	0.403	3.3	3.31	3.26	48.2	0.011	HDPE
CO-7	MH-3	MH-2	601.85	600.39	599.98	599.37	60.5	217	1.51	100	4.476	2.8699	1.2	1.66	0.8	64.2	0.01	HDPE
ZONE 235-67	MH-1234	MH-1913	580.43	580.29	579.44	579.34	10.2	150	0.51	100	1.52	0.0665	0.8	0.84	0.8	15.2	0.011	HDPE
ZONE 235-6667	MH-1914	MH-62	586.95	586.95	585.37	585.35	10.2	217	0.6	643.215	1.7649	1.1617	1.4	1.36	1.38	49.6	0.01	HDPE
CO-2	MH-6142	MH-2767	586.33	586.7	585.38	585.21	28.4	150	0.6	168.265	1.1718	0.2241	1.1	0.8	1.35	29.9	0.011	HDPE
ZONE 235-5783	MH-1345	MH-1346	572.54	572.4	571.43	571.42	6.5	150	0.24	1,000.00	0.4807	0.089	0.9	0.96	0.83	22.9	0.011	HDPE
ZONE 235-4335	MH-2398	MH-1773	602.15	601.84	601.02	600.89	13	150	0.69	100	1.52	0.1881	0.9	0.98	0.8	25.6	0.011	HDPE
ZONE 235-1597	MH-5	MH-6	581	581	580.05	580.05	0	150	0	(N/A)	0	0	0.8	0.8	0.8	0	0.011	HDPE
ZONE 235-4404	MH-13	MH-14	600.05	600.05	598.7	598.7	0	150	0.23	(N/A)	0	0.0717	1.2	1.2	1.2	28	0.011	HDPE
ZONE 235-4238	MH-15	MH-16	592.15	592.15	590.53	590.52	12.9	150	0.2	1,000.00	0.4807	0.0432	1.5	1.47	1.48	39.5	0.011	HDPE
ZONE 235-4361	MH-19	MH-20	603.59	603.59	602.64	602.64	0	150	0.14	(N/A)	0	0.0119	0.8	0.8	0.8	7.7	0.011	HDPE
ZONE 235-4200	MH-679	MH-680	596.61	596.61	594.78	594.78	0.3	150	0.6	159.934	1.2019	0.2077	1.7	1.68	1.68	29.7	0.011	HDPE
ZONE 235-3813	MH-1989	MH-1990	582.34	582.11	581.27	581.16	10.7	150	0.23	100	1.52	0.005	0.9	0.92	0.8	4.3	0.011	HDPE
ZONE 235-1737	MH-41	MH-42	581.33	581.33	580.37	580.36	3.7	150	0.21	1,000.00	0.4807	0.0547	0.8	0.81	0.81	17.7	0.011	HDPE
ZONE 235-4871	MH-687	MH-688	598.17	598.17	597.22	597.22	0.3	150	0.17	1,000.00	0.4807	0.0281	0.8	0.8	0.8	11.6	0.011	HDPE
ZONE 235-4493	MH-49	MH-50	596.5	596.5	595.55	595.55	0	150	0.1	(N/A)	0	0.0039	0.8	0.8	0.8	7.6	0.011	HDPE
ZONE 235-1637	MH-2029	MH-2030	583.38	583.45	581.35	581.29	11.3	150	0.6	195.028	1.0884	0.2674	1.9	1.88	2.01	33.4	0.011	HDPE
ZONE 235-4719	MH-735	MH-736	590.82	590.81	589.74	589.79	25.9	217	0.69	439.387	2.1353	1.1136	0.8	0.86	0.8	47	0.01	HDPE
ZONE 235-4306	MH-73	MH-74	599	599	598.05	598.04	0	150	0.6	(N/A)	0	0.1721	0.8	0.8	0.8	25.7	0.011	HDPE
ZONE 235-4470	MH-75	MH-76	599.87	599.87	598.92	598.92	0	150	0.2	(N/A)	0	0.0484	0.8	0.8	0.8	17.9	0.011	HDPE
ZONE 235-4374	MH-77	MH-78	599.74	599.74	598.79	598.73	10.7	150	0.6	179.497	1.1345	0.2426	0.8	0.8	0.86	31.4	0.011	HDPE
ZONE 235-3797	MH-757	MH-758	581.1	581.1	580.03	579.95	13	150	0.6	165.635	1.1811	0.2168	1	0.93	1	30.1	0.011	HDPE
ZONE 235-4129	MH-89	MH-90	566.98	566.98	563.42	563.36	22.5	175	0.6	395.894	1.2676	0.5548	3.4	3.39	3.44	46.1	0.01	HDPE
ZONE 235-4482	MH-91	MH-92	598.64	598.64	597.66	597.69	21	150	0.25	1,000.00	0.4807	0.0894	0.8	0.82	0.8	26.5	0.011	HDPE
ZONE 235-4431	MH-1523	MH-1524	596.06	596.22	595.05	595.12	7.7	217	1.37	100	4.476	1.9326	0.8	0.8	0.88	52	0.01	HDPE
ZONE 235-4278	MH-2057	MH-2058	595	595.3	594.05	594.16	11	150	0.47	103.294	1.4956	0.0523	0.9	0.8	0.99	18	0.011	HDPE
ZONE 235-4899	MH-783	MH-784	598.97	598.99	597.99	598.01	12.6	175	0.6	453.919	1.1838	0.6817	0.8	0.81	0.8	48.9	0.01	HDPE
ZONE 235-3811	MH-95	MH-96	581.06	581.05	580.06	580.1	13.2	150	0.28	281.424	0.9061	0.0316	0.8	0.85	0.8	18.4	0.011	HDPE
ZONE 235-4408	MH-101	MH-102	599.79	599.79	598.29	598.29	0	150	0.26	(N/A)	0	0.1057	1.3	1.35	1.35	30.5	0.011	HDPE
ZONE 235-1488	MH-103	MH-104	588.3	588.3	586.99	586.99	0	150	0.21	(N/A)	0	0.0502	1.2	1.16	1.16	15.4	0.011	HDPE
ZONE 235-4427	MH-107	MH-108	600.9	600.9	599.95	599.95	0	150	0.19	(N/A)	0	0.0384	0.8	0.8	0.8	13.5	0.011	HDPE
ZONE 235-4310	MH-123	MH-124	598.95	598.95	598	598	0	150	0.6	(N/A)	0	0.12	0.8	0.8	0.8	21	0.011	HDPE
ZONE 235-2307	MH-1577	MH-1578	582.59	582.55	580.97	581.04	8	150	0.6	104.812	1.4847	0.1239	1.4	1.47	1.35	22.7	0.011	HDPE
ZONE 235-6483	MH-1605	MH-1606	581.43	581.4	580.48	580.45	8.1	150	0.31	320.27	0.8494	0.0529	0.8	0.8	0.8	15.6	0.011	HDPE
ZONE 235-1829	MH-157	MH-158	572.49	572.49	571.54	571.54	0	150	0.26	(N/A)	0	0.1158	0.8	0.8	0.8	23.1	0.011	HDPE
ZONE 235-1402	MH-3265	MH-3266	593	593	592.05	592.03	18.3	150	0.14	1,000.00	0.4807	0.013	0.8	0.8	0.82	9.2	0.011	HDPE
ZONE 235-3902	MH-163	MH-164	575.5	575.5	574.55	574.55	0	150	0.09	(N/A)	0	0.0029	0.8	0.8	0.8	4	0.011	HDPE
ZONE 235-1795	MH-169	MH-170	573.29	573.29	572.34	572.34	0	150	0.09	(N/A)	0	0.0031	0.8	0.8	0.8	15.4	0.011	HDPE
ZONE 235-3809	MH-175	MH-176	581.57	581.57	580.62	580.61	12.2	150	0.16	1,000.00	0.4807	0.023	0.8	0.8	0.81	12.1	0.011	HDPE
ZONE 235-1712	MH-185	MH-186	578.32	578.33	576.59	576.59	0	150	0.6	(N/A)	0	0.2201	1.6	1.59	1.59	30.7	0.011	HDPE
ZONE 235-3860	MH-195	MH-196	580.77	580.77	579.82	579.82	5.5	150	0.2	1,000.00	0.4807	0.046	0.8	0.81	0.8	17.1	0.011	HDPE
ZONE 235-1694	MH-197	MH-198	585.06	585.06	584.1	584.11	0	150	0.11	(N/A)	0	0.0062	0.8	0.8	0.8	29.8	0.011	HDPE
ZONE 235-4376	MH-201	MH-202	599.99	599.99	599.03	599.04	0	150	0.09	(N/A)	0	0.0036	0.8	0.8	0.8	4.4	0.011	HDPE
ZONE 235-4349	MH-215	MH-216	601.85	601.86	600.9	600.89	13.1	150	0.25	1,000.00	0.4807	0.0986	0.8	0.8	0.81	26	0.011	HDPE
ZONE 235-3897	MH-163	MH-1668	575.5	575.23	574.03	573.97	8.5	150	0.6	158.3	1.2081	0.2044	1.2	1.32	1.11	29.6	0.011	HDPE
ZONE 235-1818	MH-955	MH-956	571.67	571.69	570.02	570.11	21.5	150	0.6	234.546	0.9925	0.3406	1.5	1.5	1.42	41	0.011	HDPE
ZONE 235-2308	MH-1578	MH-1872	582.55	582.51	581.04	581.16	11.7	150	0.6	100.428	1.5168	0.1177	1.3	1.35	1.2	22.2	0.011	HDPE
ZONE 235-3823	MH-1680	MH-1681	580.91	580.82	579.95	579.87	8.6	150	0.64	100	1.52	0.1486	0.8	0.8	0.8	22.8	0.011	HDPE
ZONE 235-4989	MH-235	MH-236	581	581	580.05	580.05	0	150	0.08	(N/A)	0	0.002	0.8	0.8	0.8	18.9	0.011	HDPE
ZONE 235-4609	MH-443	MH-969	593.96	593.99	592.2	592.37	21.7	150	0.6	130.616	1.33	0.1619	1.5	1.6	1.47	24.5	0.011	HDPE
ZONE 235-6503	MH-2188	MH-2189	582.1	581.98	581.15	581.03	11.8	150	0.5	106.078	1.4758	0.0697	0.8	0.8	0.8	17.9	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4909	MH-818	MH-989	586.92	586.96	585.91	586.01	23.7	150	0.6	249.693	0.9619	0.3725	0.8	0.85	0.8	41.1	0.011	HDPE
ZONE 235-1396	MH-1712	MH-1713	591.19	590.99	590.13	590.04	8.8	150	0.33	100	1.52	0.0169	0.9	0.9	0.8	9.3	0.011	HDPE
ZONE 235-4436	MH-269	MH-270	597.91	597.91	596.96	596.96	0	150	0.2	(N/A)	0	0.0185	0.8	0.8	0.8	9.3	0.011	HDPE
ZONE 235-4509	MH-2631	MH-2632	604.1	603.77	602.81	602.82	14.6	150	0.14	1,000.00	0.4807	0.0126	1	1.14	0.8	14	0.011	HDPE
ZONE 235-4796	MH-303	MH-304	602.77	602.77	601.82	601.82	0	150	0.12	(N/A)	0	0.0072	0.8	0.8	0.8	6	0.011	HDPE
ZONE 235-4174	MH-898	MH-798	602.65	603.04	601.18	601.19	8.4	217	0.6	541.437	1.9236	0.8877	1.4	1.26	1.63	46.6	0.01	HDPE
ZONE 235-4939	MH-311	MH-312	587.07	587.07	586.12	586.12	0	150	0.23	(N/A)	0	0.0451	0.8	0.8	0.8	14.5	0.011	HDPE
ZONE 235-5016	MH-319	MH-320	583.68	583.68	582.73	582.73	0	150	0.16	(N/A)	0	0.0189	0.8	0.8	0.8	9.6	0.011	HDPE
ZONE 235-4701	MH-345	MH-346	597.72	597.72	594.62	594.62	0.1	450	0.76	(N/A)	0	8.4819	2.6	2.64	2.64	73.7	0.011	HDPE
ZONE 235-12	MH-1116	MH-1117	582.76	582.68	578.49	578.43	21.7	150	0.6	371.163	0.8679	0.5041	4.1	4.12	4.1	50.2	0.01	HDPE
ZONE 235-80	MH-2283	MH-497	581.57	581.45	580.62	580.5	12.1	150	0.16	102.86	1.4987	0.0015	0.8	0.8	0.8	15	0.011	HDPE
ZONE 235-4128	MH-363	MH-364	567.43	567.43	563.88	563.79	14.4	150	0.6	166.085	1.1795	0.2175	3.4	3.4	3.49	38.2	0.011	HDPE
ZONE 235-1741	MH-1142	MH-41	581.32	581.33	580.37	580.37	5.2	150	0.21	1,000.00	0.4807	0.0538	0.8	0.8	0.81	21.1	0.011	HDPE
ZONE 235-3920	MH-375	MH-376	578.25	578.25	576.86	576.86	0.1	150	0.6	(N/A)	0	0.184	1.2	1.24	1.24	27.6	0.011	HDPE
ZONE 235-1572	MH-1810	MH-1811	583.92	584.06	582.57	582.56	9.5	150	0.22	1,000.00	0.4807	0.0628	1.3	1.2	1.35	19.6	0.011	HDPE
ZONE 235-4623	MH-385	MH-386	589.08	589.07	588.13	588.12	0.1	150	0.7	(N/A)	0	0.3499	0.8	0.8	0.8	37.6	0.011	HDPE
ZONE 235-1707	MH-387	MH-388	587.06	587.06	585.08	584.89	24	150	0.6	126.064	1.3538	0.1568	1.9	1.83	2.02	25.8	0.011	HDPE
ZONE 235-6504	MH-2189	MH-2302	581.98	581.92	581.03	580.97	12.4	150	0.44	190.286	1.1019	0.0895	0.8	0.8	0.8	20.9	0.011	HDPE
ZONE 235-4952	MH-395	MH-396	587	587	586.05	586.05	0.1	150	0.08	(N/A)	0	0.0026	0.8	0.8	0.8	3.7	0.011	HDPE
ZONE 235-4915	MH-793	MH-1181	590.71	590.81	589.76	589.86	14.5	150	0.37	144.794	1.2632	0.036	0.8	0.8	0.8	11.7	0.011	HDPE
ZONE 235-3777	MH-403	MH-404	583.05	583.04	581.81	581.72	10.7	150	0.6	121.918	1.3766	0.1493	1.1	1.09	1.18	23.4	0.011	HDPE
ZONE 235-4625	MH-407	MH-408	587.74	587.73	586.79	586.78	0.1	150	0.81	(N/A)	0	0.4509	0.8	0.8	0.8	42.5	0.011	HDPE
ZONE 235-58	MH-411	MH-412	581.24	581.24	579.99	579.98	8.7	150	0.19	1,000.00	0.4807	0.0345	1.1	1.1	1.11	18.4	0.011	HDPE
ZONE 235-4442	MH-415	MH-416	596.33	596.32	595.38	595.37	0.1	150	0.4	(N/A)	0	0.0783	0.8	0.8	0.8	18.2	0.011	HDPE
ZONE 235-4305	MH-74	MH-1212	599	598.9	598	597.95	5.3	150	0.73	100	1.52	0.2334	0.8	0.85	0.8	28.7	0.011	HDPE
ZONE 235-1679	MH-417	MH-418	587.17	587.17	586.22	586.22	0.1	150	0.1	(N/A)	0	0.0052	0.8	0.8	0.8	14.3	0.011	HDPE
ZONE 235-6477	MH-1251	MH-1252	581.62	581.65	578.62	578.6	5.8	150	0.6	359.067	0.8824	0.4789	2.9	2.85	2.9	53.7	0.01	HDPE
ZONE 235-3980	MH-1256	MH-1257	565.65	565.76	564.7	564.75	4.9	150	0.41	100	1.52	0.0319	0.8	0.8	0.86	10.6	0.011	HDPE
ZONE 235-4293	MH-465	MH-466	594.78	594.78	593.7	593.71	13.9	271	0.6	988.028	2.5755	2.4305	0.8	0.81	0.8	62.6	0.01	HDPE
ZONE 235-4198	MH-473	MH-474	596.38	596.38	594.98	594.98	0.1	150	0.6	(N/A)	0	0.1694	1.2	1.25	1.25	26.6	0.011	HDPE
ZONE 235-4547	MH-2362	MH-2363	603.03	603.03	601.96	602.08	12.8	150	0.6	104.93	1.4839	0.1231	0.9	0.92	0.8	22.8	0.011	HDPE
ZONE 235-4245	MH-505	MH-506	591.41	591.41	590.46	590.44	16.9	150	0.21	1,000.00	0.4807	0.0553	0.8	0.8	0.82	18.8	0.011	HDPE
ZONE 235-6016	MH-1295	MH-1296	580.47	580.5	578.82	578.82	6.2	150	0.21	1,000.00	0.4807	0.0508	1.5	1.5	1.53	27.5	0.011	HDPE
ZONE 235-4139	MH-597	MH-1304	564	564	562.67	562.65	16.1	217	0.6	584.782	1.851	0.9953	1.1	1.11	1.14	51.1	0.01	HDPE
ZONE 235-4122	MH-1946	MH-377	565.49	565.62	564.54	564.53	11.9	150	0.2	1,000.00	0.4807	0.0484	0.9	0.8	0.94	26.8	0.011	HDPE
ZONE 235-4144	MH-583	MH-584	567.18	567.19	565.82	565.8	17.8	150	0.22	1,000.00	0.4807	0.0619	1.2	1.21	1.24	24.9	0.011	HDPE
ZONE 235-1862	MH-613	MH-614	565.91	565.91	564.81	564.76	12	175	0.73	261.069	1.561	0.65	1	0.93	0.97	45.7	0.01	HDPE
ZONE 235-29	MH-619	MH-620	579.66	579.65	577.28	577.26	11.4	271	0.6	784.307	2.8907	1.5458	2.1	2.1	2.12	52.5	0.01	HDPE
ZONE 235-6679	MH-1728	MH-2455	581	581	577.02	577.01	13.7	400	0.63	1,000.00	6.573	3.5266	3.6	3.58	3.59	40.5	0.011	HDPE
ZONE 235-3948	MH-1445	MH-1446	577.9	577.99	576.05	576.09	18	175	0.6	424.089	1.2247	0.6135	1.7	1.67	1.73	50.1	0.01	HDPE
ZONE 235-6444	MH-1447	MH-1448	563.94	563.98	562.42	562.39	7.2	150	0.6	219.33	1.0264	0.3137	1.4	1.38	1.44	39.1	0.011	HDPE
ZONE 235-49	MH-2466	MH-2467	582.6	582.37	581.56	581.42	13.5	150	0.57	100	1.52	0.1003	0.8	0.9	0.8	18.7	0.011	HDPE
ZONE 235-4437	MH-665	MH-666	596.86	596.85	595.91	595.9	0.3	150	0.51	100	1.52	0.0675	0.8	0.8	0.8	15.6	0.011	HDPE
ZONE 235-1632	MH-2025	MH-2026	583.62	583.49	582.3	582.23	10.8	150	0.6	146.639	1.2552	0.1876	1.1	1.17	1.11	27.9	0.011	HDPE
ZONE 235-6548	MH-3607	MH-3608	572.99	572.59	571.86	571.64	21.6	150	0.33	100	1.52	0.0163	0.9	0.99	0.8	7.7	0.011	HDPE
ZONE 235-4981	MH-2261	MH-2123	584.23	583.97	580.78	580.72	41	217	0.6	702.082	1.6893	1.3772	3.1	3.23	3.04	57.3	0.01	HDPE
ZONE 235-1868	MH-709	MH-710	565.64	565.65	564.63	564.67	18.5	175	0.6	494.004	1.1348	0.7861	0.8	0.84	0.8	55.9	0.01	HDPE
ZONE 235-4818	MH-729	MH-730	603.11	603.11	600.4	600.79	55.3	150	0.6	144.865	1.2629	0.1848	2.4	2.56	2.17	37.3	0.011	HDPE
ZONE 235-1716	MH-1510	MH-1511	580.59	580.6	578.02	577.96	35.8	217	0.6	625.228	1.7901	1.1064	2.4	2.35	2.42	56.3	0.01	HDPE
ZONE 235-5841	MH-1512	MH-1513	582.6	582.58	581.4	581.38	7.6	400	0.95	335.608	11.3462	3.6447	0.8	0.8	0.8	38.4	0.011	HDPE
ZONE 235-3597	MH-737	MH-738	575.32	575.31	574.3	574.27	16.2	217	0.6	651.321	1.7539	1.1873	0.8	0.8	0.82	51	0.01	HDPE
ZONE 235-4475	MH-743	MH-744	604.84	604.83	603.41	603.1	38.3	150	0.6	121.633	1.3782	0.1488	1.4	1.27	1.59	23.3	0.011	HDPE
ZONE 235-5943	MH-3254	MH-3255	561.28	560.92	560.15	559.97	18.2	150	0.84	100	1.52	0.3783	0.9	0.98	0.8	36.8	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-4913	MH-749	MH-750	589.87	589.88	588.6	588.78	18.9	150	0.6	103.857	1.4915	0.1246	1	1.12	0.95	21	0.011	HDPE
ZONE 235-3761	MH-753	MH-754	580.36	580.36	579.36	579.41	10	150	0.6	176.149	1.1453	0.2367	0.8	0.85	0.8	31	0.011	HDPE
ZONE 235-4434	MH-771	MH-772	597.38	597.37	596.42	596.42	0.4	150	0.46	100	1.52	0.0469	0.8	0.81	0.8	13	0.011	HDPE
ZONE 235-1808	MH-1541	MH-1542	573.42	573.41	572.47	572.46	7.8	150	0.12	1,000.00	0.4807	0.0074	0.8	0.8	0.8	10.7	0.011	HDPE
ZONE 235-1628	MH-1546	MH-1547	583.96	583.82	582.79	582.72	7.8	150	0.6	105.079	1.4828	0.1233	1	1.02	0.96	22.7	0.011	HDPE
ZONE 235-5082	MH-2097	MH-1061	560.52	560.46	559.57	559.51	11.2	150	0.8	171.085	1.1621	0.6539	0.8	0.8	0.8	53.1	0.011	HDPE
ZONE 235-3979	MH-1257	MH-3285	565.76	566.09	564.81	564.99	17.7	150	0.25	100	1.52	0.0071	0.9	0.8	0.96	5.1	0.011	HDPE
ZONE 235-5073	MH-2112	MH-1216	563.93	563.49	562.65	562.54	11.3	150	1.07	100	1.52	0.9679	1	1.13	0.8	61.2	0.011	HDPE
ZONE 235-3799	MH-812	MH-813	581.32	581.32	580.35	580.33	13.8	150	0.15	1,000.00	0.4807	0.0174	0.8	0.83	0.83	10.5	0.011	HDPE
ZONE 235-3787	MH-828	MH-829	582.39	582.37	581.18	581.19	7	150	0.12	1,000.00	0.4807	0.0077	1	1.06	1.04	9	0.011	HDPE
ZONE 235-4585	MH-2566	MH-2567	602.5	602.38	601.42	601.43	14.2	150	0.15	1,000.00	0.4807	0.015	0.9	0.93	0.8	13.1	0.011	HDPE
ZONE 235-3784	MH-864	MH-865	581.7	581.69	580.75	580.74	9.2	150	0.21	1,000.00	0.4807	0.0514	0.8	0.8	0.8	17.8	0.011	HDPE
ZONE 235-3598	MH-2582	MH-2583	574.99	574.86	573.56	573.54	14.3	217	0.6	668.728	1.7309	1.2449	1.2	1.22	1.1	62.6	0.01	HDPE
ZONE 235-3802	MH-871	MH-872	580.93	580.92	579.92	579.89	4.9	150	0.6	167.511	1.1744	0.2195	0.9	0.86	0.88	29.5	0.011	HDPE
ZONE 235-4425	MH-1646	MH-107	600.77	600.9	599.82	599.91	8.4	150	0.54	100	1.52	0.0823	0.8	0.8	0.85	16.9	0.011	HDPE
ZONE 235-1364	MH-2157	MH-2158	591.82	591.98	590.41	590.4	11.6	150	0.18	1,000.00	0.4807	0.0297	1.4	1.27	1.44	13.8	0.011	HDPE
ZONE 235-1461	MH-2166	MH-2167	589.85	589.94	587.35	587.27	11.7	150	0.6	143.682	1.2681	0.183	2.4	2.35	2.52	32	0.011	HDPE
ZONE 235-4730	MH-905	MH-836	591.66	591.68	590.63	590.73	14	150	0.6	137.126	1.298	0.1738	0.8	0.88	0.8	25.6	0.011	HDPE
ZONE 235-4317	MH-906	MH-907	601.53	601.53	600.11	600.11	1.2	150	0.2	1,000.00	0.4807	0.0455	1.3	1.27	1.26	15.4	0.011	HDPE
ZONE 235-5045	MH-839	MH-915	587.39	587.38	585.46	585.41	31.5	217	0.6	605.043	1.8197	1.0492	1.7	1.71	1.75	54.2	0.01	HDPE
ZONE 235-83	MH-757	MH-2173	581.1	580.99	580.03	580.04	11.7	150	0.09	1,000.00	0.4807	0.0035	0.9	0.93	0.8	26.1	0.011	HDPE
ZONE 235-1576	MH-1669	MH-1670	583.39	583.51	582.44	582.43	8.6	150	0.14	1,000.00	0.4807	0.0147	0.9	0.8	0.93	12.6	0.011	HDPE
ZONE 235-3766	MH-919	MH-920	581.24	581.25	580.29	580.3	13.7	150	0.23	1,000.00	0.4807	0.0711	0.8	0.8	0.8	21.1	0.011	HDPE
ZONE 235-61	MH-412	MH-641	581.24	581.01	579.98	579.97	6.3	150	0.19	1,000.00	0.4807	0.0369	1	1.11	0.89	19	0.011	HDPE
ZONE 235-4329	MH-1880	MH-2604	600.15	600.26	599.2	599.31	14.4	150	0.66	127.56	1.3458	0.2163	0.8	0.8	0.8	28.4	0.011	HDPE
ZONE 235-6578	MH-2607	MH-1425	568.77	569.01	567.82	567.97	14.4	150	0.21	100	1.52	0.0037	0.8	0.8	0.89	3.7	0.011	HDPE
ZONE 235-57	MH-1686	MH-1687	581.06	580.97	580.11	580.02	9.1	150	0.35	103.179	1.4964	0.0205	0.8	0.8	0.8	12	0.011	HDPE
ZONE 235-5012	MH-2615	MH-2616	585.55	585.38	584.58	584.43	14.5	150	0.76	100	1.52	0.2614	0.8	0.82	0.8	30.4	0.011	HDPE
ZONE 235-1731	MH-1699	MH-1700	580.44	580.47	579.09	579.02	8.8	150	0.6	141.471	1.278	0.1798	1.3	1.21	1.3	27.8	0.011	HDPE
ZONE 235-4675	MH-975	MH-976	596.24	596.25	592.64	592.59	10.5	150	0.6	230.23	1.0018	0.3323	3.5	3.45	3.51	40.2	0.011	HDPE
ZONE 235-3869	MH-998	MH-999	576.91	576.98	574.83	574.87	10.5	150	0.6	259.233	0.9441	0.3918	1.9	1.93	1.96	42.5	0.011	HDPE
ZONE 235-3650	MH-427	MH-1000	581.06	581.03	579.35	579.33	11.8	150	0.22	1,000.00	0.4807	0.0567	1.6	1.56	1.54	23.6	0.011	HDPE
ZONE 235-4897	MH-773	MH-1001	596.82	596.84	595.69	595.77	61.4	271	0.6	791.6	2.8774	1.5687	0.8	0.86	0.8	45.4	0.01	HDPE
ZONE 235-4135	MH-1004	MH-391	567.6	567.56	563.14	563.11	13.6	175	0.6	459.452	1.1767	0.6951	4.3	4.29	4.27	57.6	0.01	HDPE
ZONE 235-6552	MH-2241	MH-2242	571.63	571.49	569.7	569.71	12	150	0.22	1,000.00	0.4807	0.0615	1.7	1.78	1.63	22.7	0.011	HDPE
ZONE 235-6443	MH-1736	MH-1447	563.81	563.94	562.46	562.42	9	150	0.6	214.001	1.0391	0.3013	1.3	1.2	1.38	36.9	0.011	HDPE
ZONE 235-4309	MH-1743	MH-1744	598.47	598.55	597.3	597.26	9	150	0.6	221.11	1.0222	0.316	1.1	1.02	1.14	38.3	0.011	HDPE
ZONE 235-4759	MH-471	MH-1037	614.03	614.08	613.08	613.13	14.7	150	0.34	263.992	0.9355	0.0559	0.8	0.8	0.8	15.7	0.011	HDPE
ZONE 235-1734	MH-1750	MH-42	581.35	581.33	578.27	578.26	4.7	175	0.6	472.425	1.1604	0.7275	2.9	2.9	2.89	59.5	0.01	HDPE
ZONE 235-4748	MH-616	MH-1044	593.82	593.75	592.79	592.8	3.3	150	0.19	1,000.00	0.4807	0.0369	0.8	0.87	0.8	14.6	0.011	HDPE
ZONE 235-4751	MH-1057	MH-825	599.26	599.23	598.31	597.83	54	150	0.6	112.398	1.4337	0.1354	1	0.8	1.25	31.4	0.011	HDPE
ZONE 235-4681	MH-638	MH-5043	600.62	600.93	599.67	599.98	33.5	150	0.79	108.412	1.4599	0.335	0.8	0.8	0.8	34.8	0.011	HDPE
ZONE 235-4761	MH-721	MH-1078	614.76	614.79	613.81	613.84	18.8	150	0.21	500.191	0.6796	0.0217	0.8	0.8	0.8	10.7	0.011	HDPE
ZONE 235-4210	MH-1082	MH-206	599.55	599.61	598.24	598.1	55.1	150	0.6	376.588	0.8616	0.5162	1.3	1.15	1.36	51	0.01	HDPE
ZONE 235-23	MH-1083	MH-1084	579.18	579.29	576.39	576.25	17.2	150	0.6	117.466	1.4025	0.1426	2.8	2.63	2.89	29.6	0.011	HDPE
ZONE 235-1557	MH-2126	MH-3081	587	587.26	586.05	586.23	17.2	150	0.63	100	1.52	0.141	0.8	0.8	0.88	22.2	0.011	HDPE
ZONE 235-82	MH-1198	MH-813	581.4	581.32	580.43	580.37	6.8	150	0.69	100	1.52	0.1858	0.8	0.82	0.8	25.5	0.011	HDPE
ZONE 235-6473	MH-1793	MH-1606	581.34	581.4	578.79	578.75	9.4	150	0.6	244.003	0.9731	0.3605	2.4	2.4	2.5	44.2	0.011	HDPE
ZONE 235-111	MH-1135	MH-1136	578.83	578.56	577.7	577.61	8.8	150	1.08	100	1.52	0.9921	0.9	0.98	0.8	62.1	0.011	HDPE
ZONE 235-6561	MH-1818	MH-1819	571.12	571	568.88	568.83	9.5	150	0.6	177.225	1.1418	0.2386	2	2.08	2.02	31.8	0.011	HDPE
ZONE 235-4380	MH-51	MH-329	600.91	601.25	599.96	600.07	10.3	150	0.84	100	1.52	0.3836	0.9	0.8	1.03	42.3	0.011	HDPE
ZONE 235-6492	MH-3043	MH-2524	581.89	581.81	580.94	580.86	17.4	150	0.28	229.556	1.0032	0.0245	0.8	0.8	0.8	10.8	0.011	HDPE
ZONE 235-4882	MH-1170	MH-881	598.89	598.91	594.86	594.87	4.8	450	0.73	1,000.00	8.9986	6.5899	3.6	3.58	3.59	64.1	0.011	HDPE

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-6013	MH-1174	MH-1175	579.98	580.1	578.86	578.86	4.9	150	0.18	1,000.00	0.4807	0.0335	1	0.96	1.09	18.6	0.011	HDPE
ZONE 235-3686	MH-1841	MH-1842	578.31	578.44	575.25	575.19	9.7	150	0.6	189.769	1.1034	0.2583	3	2.91	3.09	33	0.011	HDPE
ZONE 235-79	MH-497	MH-1198	581.45	581.4	580.5	580.43	8.3	150	0.64	120.457	1.385	0.1843	0.8	0.8	0.82	27.6	0.011	HDPE
ZONE 235-1552	MH-2348	MH-1862	587.56	587.56	586.22	586.21	12.7	150	0.21	1,000.00	0.4807	0.0503	1.2	1.19	1.2	22.4	0.011	HDPE
ZONE 235-2304	MH-1866	MH-1867	582.43	582.5	580.7	580.78	9.9	150	0.6	115.87	1.4121	0.1404	1.6	1.58	1.57	24.2	0.011	HDPE
ZONE 235-31	MH-2364	MH-2303	577.36	577.02	576.08	575.95	12.8	271	1.32	100	8.0956	1.7421	0.9	1.02	0.8	47.2	0.01	HDPE
ZONE 235-4671	MH-2780	MH-2781	605.18	604.96	603.99	604.01	15.5	150	0.18	1,000.00	0.4807	0.034	0.9	1.03	0.8	20.3	0.011	HDPE
ZONE 235-4327	MH-201	MH-1880	599.99	600.15	599.04	599.15	11.9	150	0.72	100	1.52	0.22	0.8	0.8	0.85	27.8	0.011	HDPE
ZONE 235-4400	MH-80	MH-1883	599.79	599.7	598.74	598.75	10	150	0.15	1,000.00	0.4807	0.0158	0.8	0.9	0.8	20.9	0.011	HDPE
ZONE 235-1430	MH-1887	MH-1888	592.67	592.55	591.7	591.6	10	150	0.33	100	1.52	0.0168	0.8	0.82	0.8	12.8	0.011	HDPE
ZONE 235-73	MH-2975	MH-3155	579.13	578.61	577.76	577.66	10.4	150	0.61	100	1.52	0.1284	1	1.22	0.8	21.2	0.011	HDPE
ZONE 235-68	MH-573	MH-1234	580.52	580.43	579.55	579.48	6.6	150	0.5	100	1.52	0.063	0.8	0.82	0.8	14.8	0.011	HDPE
ZONE 235-4580	MH-2543	MH-133	602.38	602.73	601.23	601.36	15.8	150	0.6	121.556	1.3787	0.1487	1.1	1	1.22	24.9	0.011	HDPE
ZONE 235-4191	MH-1288	MH-1289	598.53	598.46	597.45	597.39	6.1	271	1.46	100	8.0956	2.5503	0.8	0.81	0.8	50.1	0.01	HDPE
ZONE 235-3954	MH-2408	MH-2409	565.41	565.3	564.46	564.35	13.1	150	0.35	120.435	1.3851	0.0232	0.8	0.8	0.8	11.7	0.011	HDPE
ZONE 235-1627	MH-1707	MH-1546	584.11	583.96	582.89	582.79	10.2	150	0.6	103.279	1.4957	0.1214	1	1.07	1.02	22.4	0.011	HDPE
ZONE 235-6478	MH-1733	MH-2830	581.7	581.78	578.58	578.54	15.8	150	0.6	377.66	0.8604	0.5186	3	2.98	3.1	51.2	0.01	HDPE
ZONE 235-3966	MH-1927	MH-1928	564.16	564.22	562.89	562.81	10.2	150	0.6	145.847	1.2586	0.1864	1.2	1.13	1.26	34.4	0.011	HDPE
ZONE 235-1554	MH-1863	MH-1935	587.42	587.33	585.71	585.7	10.3	150	0.23	1,000.00	0.4807	0.0771	1.5	1.56	1.48	21.8	0.011	HDPE
ZONE 235-4555	MH-2850	MH-2851	601.58	601.62	600.63	600.67	16	150	0.28	411.537	0.7493	0.0492	0.8	0.8	0.8	20	0.011	HDPE
ZONE 235-2305	MH-1867	MH-1903	582.5	582.6	580.78	580.87	10.5	150	0.6	113.881	1.4244	0.1375	1.6	1.57	1.58	23.8	0.011	HDPE
ZONE 235-1968	MH-2416	MH-2451	587.54	587.67	585.66	585.72	13.4	150	0.6	214.085	1.0389	0.3015	1.8	1.73	1.8	36.9	0.011	HDPE
ZONE 235-4323	MH-1974	MH-1975	599.93	599.86	598.98	598.88	19.8	150	0.32	190.715	1.1007	0.032	0.8	0.8	0.84	12.1	0.011	HDPE
ZONE 235-4930	MH-1384	MH-1385	587.09	587.05	585.59	585.58	6.8	150	0.2	1,000.00	0.4807	0.0456	1.3	1.35	1.31	20.8	0.011	HDPE
ZONE 235-5779	MH-2759	MH-2871	575.32	574.76	573.97	573.81	16.1	150	0.4	100	1.52	0.0315	1	1.2	0.8	10.5	0.011	HDPE
ZONE 235-1607	MH-1395	MH-1396	585.26	585.33	581.52	581.48	6.8	150	0.6	177.724	1.1402	0.2394	3.6	3.59	3.7	31.6	0.011	HDPE
ZONE 235-6002	MH-1094	MH-3110	578.73	578.25	577.22	577.14	18.1	150	0.6	241.826	0.9775	0.3556	1.2	1.36	0.96	39.9	0.011	HDPE
ZONE 235-4463	MH-28	MH-3628	599.65	600.05	598.7	598.91	21.1	150	0.39	100	1.52	0.028	0.9	0.8	0.99	12.2	0.011	HDPE
ZONE 235-1823	MH-3252	MH-339	572.78	573.21	571.83	571.99	15.2	150	0.58	100	1.52	0.1018	0.9	0.8	1.08	22.4	0.011	HDPE
ZONE 235-5788	MH-1434	MH-1435	572.49	572.57	570.47	570.41	7.1	150	0.6	120.22	1.3863	0.1467	1.9	1.87	2.01	23.1	0.011	HDPE
ZONE 235-4141	MH-1304	MH-4064	564	564	562.65	562.63	11.9	217	0.6	593.646	1.8371	0.10187	1.1	1.14	1.16	46.1	0.01	HDPE
ZONE 235-5817	MH-2898	MH-2752	581.65	581.72	580.45	580.52	16.3	400	1.1	245.068	13.2777	4.2125	0.8	0.8	0.8	38.7	0.011	HDPE
ZONE 235-3863	MH-1471	MH-641	581.09	581.01	580.14	580.06	8.1	150	0.17	115.046	1.4171	0.0024	0.8	0.8	0.8	3.1	0.011	HDPE
ZONE 235-1302	MH-2046	MH-2047	587.07	586.97	585.41	585.4	10.9	400	0.63	1,000.00	7.2303	2.7516	1.2	1.26	1.18	40.5	0.01	HDPE
ZONE 235-1725	MH-2073	MH-2074	580.87	580.79	578.09	578.07	11.1	217	0.6	535.914	1.9335	0.874	2.5	2.57	2.51	47.8	0.01	HDPE
ZONE 235-3836	MH-1519	MH-203	580.97	580.92	580.02	579.97	7.7	150	0.66	153.562	1.2266	0.2741	0.8	0.8	0.8	39.5	0.011	HDPE
ZONE 235-6702	MH-166	MH-2108	578.77	578.89	576.41	576.36	11.3	150	0.6	200.246	1.0742	0.2759	2.3	2.2	2.39	34	0.011	HDPE
ZONE 235-1374	MH-4113	MH-4114	591.26	590.42	589.71	589.47	24.5	150	0.55	100	1.52	0.0886	1.1	1.4	0.8	17.5	0.011	HDPE
ZONE 235-4465	MH-2558	MH-74	599.2	599	598.19	598.05	14.2	150	0.49	100	1.52	0.0603	0.8	0.86	0.8	14.5	0.011	HDPE
ZONE 235-1310	MH-1569	MH-1570	586.81	586.68	585.81	585.73	8	150	0.51	100	1.52	0.0662	0.8	0.86	0.8	15.2	0.011	HDPE
ZONE 235-6472	MH-1606	MH-2519	581.4	581.48	578.75	578.7	14.3	150	0.6	272.756	0.9204	0.4209	2.6	2.5	2.63	47.1	0.011	HDPE
ZONE 235-1401	MH-1589	MH-1590	592.56	592.35	591.48	591.4	8.1	150	0.49	100	1.52	0.0619	0.9	0.93	0.8	14.7	0.011	HDPE
ZONE 235-1577	MH-1670	MH-2147	583.51	583.68	582.43	582.42	11.6	150	0.15	1,000.00	0.4807	0.0166	1	0.93	1.11	15.1	0.011	HDPE
ZONE 235-4345	MH-2152	MH-2153	602.8	602.54	601.71	601.59	11.5	150	0.54	100	1.52	0.082	0.9	0.93	0.8	16.9	0.011	HDPE
ZONE 235-1412	MH-2592	MH-2593	594.08	593.9	593.08	592.95	14.4	150	0.49	109.646	1.4516	0.0646	0.8	0.85	0.8	15.2	0.011	HDPE
ZONE 235-1809	MH-1542	MH-169	573.41	573.29	572.46	572.34	16.8	150	0.38	139.766	1.2857	0.0372	0.8	0.8	0.8	13.8	0.011	HDPE
ZONE 235-3685	MH-2159	MH-1841	578.26	578.31	576.94	576.92	11.6	150	0.17	1,000.00	0.4807	0.0272	1.2	1.18	1.23	13.2	0.011	HDPE
ZONE 235-92	MH-1633	MH-1634	582.16	581.98	581.16	581.03	12.7	150	1.21	100	1.672	1.1866	0.8	0.85	0.8	66.9	0.01	HDPE
ZONE 235-1567	MH-3013	MH-3014	585.28	585.05	584.19	584.1	16.9	150	0.4	179.835	1.1335	0.0603	0.9	0.94	0.8	15.6	0.011	HDPE
ZONE 235-4385	MH-22	MH-389	600.97	600.76	599.67	599.63	10	150	0.4	236.209	0.989	0.0856	1.1	1.15	0.98	24.7	0.011	HDPE
ZONE 235-4409	MH-102	MH-1666	599.79	599.68	598.29	598.28	8.5	150	0.26	1,000.00	0.4807	0.1101	1.3	1.35	1.24	28.1	0.011	HDPE
ZONE 235-4670	MH-3035	MH-2780	605.28	605.18	603.83	603.99	17	150	0.6	103.902	1.4912	0.122	1.2	1.3	1.03	23.4	0.011	HDPE
ZONE 235-5772	MH-1690	MH-1691	574.53	574.19	573.33	573.24	8.7	150	0.5	100	1.52	0.0653	0.9	1.05	0.8	15.1	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-1965	MH-5002	MH-4033	588.21	587.87	587.26	586.92	33.4	150	0.37	100	1.52	0.0227	0.8	0.8	0.8	8.9	0.011	HDPE
ZONE 235-3909	MH-1693	MH-167	580.15	580.15	579.12	579.11	13.7	150	0.17	1,000.00	0.4807	0.0268	0.9	0.87	0.89	16.1	0.011	HDPE
ZONE 235-4472	MH-76	MH-112	599.87	599.8	598.92	598.85	8.8	150	0.5	120.483	1.3848	0.0777	0.8	0.8	0.8	19.3	0.011	HDPE
ZONE 235-1626	MH-1706	MH-1707	584.22	584.11	582.9	582.89	8.8	150	0.26	1,000.00	0.4807	0.1155	1.1	1.16	1.07	26.7	0.011	HDPE
ZONE 235-1559	MH-1708	MH-1709	587.66	587.82	586.71	586.8	8.8	150	0.58	100	1.52	0.1052	0.8	0.8	0.88	19.2	0.011	HDPE
ZONE 235-6012	MH-2230	MH-1174	579.83	579.98	578.88	578.86	12	150	0.17	1,000.00	0.4807	0.0269	0.9	0.8	0.96	17.2	0.011	HDPE
ZONE 235-4866	MH-1719	MH-1720	598.82	598.72	597.69	597.77	8.9	150	0.6	107.697	1.4647	0.129	0.9	0.98	0.8	23.5	0.011	HDPE
ZONE 235-1356	MH-2668	MH-2669	592.18	592.24	591.23	591.29	14.8	150	0.21	258.94	0.9446	0.0109	0.8	0.8	0.8	10.9	0.011	HDPE
ZONE 235-4224	MH-3067	MH-93	595.61	595.47	594.66	594.52	16.8	150	0.33	123.777	1.3662	0.0197	0.8	0.8	0.8	8.5	0.011	HDPE
ZONE 235-4984	MH-235	MH-1728	581	581	579.91	579.9	8.6	271	0.6	988.205	2.5753	2.4367	0.8	0.82	0.82	54.9	0.01	HDPE
ZONE 235-4476	MH-2677	MH-743	605.1	604.84	603.99	603.89	9.8	150	0.29	100	1.52	0.0102	0.9	0.96	0.8	6.1	0.011	HDPE
ZONE 235-4150	MH-2258	MH-2259	565.95	566.09	565	564.91	13.1	150	0.34	150.179	1.2404	0.028	0.9	0.8	1.02	11.3	0.011	HDPE
ZONE 235-6476	MH-1252	MH-1733	581.65	581.7	578.6	578.58	9	150	0.6	375.674	0.8627	0.5141	2.9	2.9	2.98	55	0.01	HDPE
ZONE 235-4738	MH-1747	MH-719	595.82	595.68	593.35	593.35	9	150	0.26	1,000.00	0.4807	0.1165	2.2	2.32	2.18	29.5	0.011	HDPE
ZONE 235-3624	MH-3926	MH-3927	581.66	582.17	580.71	580.94	23.1	150	0.64	100	1.52	0.1469	0.9	0.8	1.07	22.6	0.011	HDPE
ZONE 235-4537	MH-2702	MH-2703	606.79	606.76	605.8	605.81	15	150	0.16	1,000.00	0.4807	0.0214	0.8	0.84	0.8	11.7	0.011	HDPE
ZONE 235-3657	MH-1759	MH-1760	580.51	580.5	578.8	578.72	10.6	150	0.6	130.64	1.3299	0.1619	1.6	1.55	1.62	26.8	0.011	HDPE
ZONE 235-3789	MH-829	MH-2290	582.37	582.14	581.19	581.19	6	150	0.1	1,000.00	0.4807	0.0052	0.9	1.04	0.8	8.1	0.011	HDPE
ZONE 235-1423	MH-2719	MH-2720	592.94	592.84	591.99	591.89	15.1	150	0.41	147.922	1.2498	0.051	0.8	0.8	0.8	14	0.011	HDPE
ZONE 235-3816	MH-34	MH-175	581.83	581.57	580.86	580.62	24.2	150	0.31	100	1.52	0.0136	0.8	0.82	0.8	11.1	0.011	HDPE
ZONE 235-4368	MH-1787	MH-19	603.7	603.59	602.75	602.64	14.4	150	0.32	123.208	1.3694	0.0188	0.8	0.8	0.8	8.4	0.011	HDPE
ZONE 235-88	MH-872	MH-3113	580.92	580.73	579.76	579.78	18	150	0.11	1,000.00	0.4807	0.0053	0.9	1	0.8	24.8	0.011	HDPE
ZONE 235-6696	MH-1800	MH-1801	581.12	581.06	579.01	578.97	9.4	150	0.6	235.41	0.9907	0.3423	1.9	1.96	1.93	40.7	0.011	HDPE
ZONE 235-1376	MH-1802	MH-1803	589.58	589.32	586.96	586.95	9.4	271	0.6	970.537	2.5986	2.2897	2.2	2.35	2.1	53.4	0.01	HDPE
ZONE 235-27	MH-1804	MH-1805	578.9	578.74	577.21	577.2	10	271	0.6	834.61	2.8023	1.7056	1.3	1.42	1.27	45.5	0.01	HDPE
ZONE 235-4927	MH-2327	MH-2328	589.93	589.83	588.87	588.88	12.6	150	0.15	1,000.00	0.4807	0.0179	0.9	0.92	0.8	16.6	0.011	HDPE
ZONE 235-86	MH-919	MH-3564	581.24	581.04	580.07	580.09	21.3	150	0.1	1,000.00	0.4807	0.004	0.9	1.02	0.8	22.8	0.011	HDPE
ZONE 235-6716	MH-1814	MH-1815	572.6	572.55	565.72	565.71	9.5	1,000.00	1.3	1,000.00	75.6728	75.0301	5.9	5.88	5.84	62	0.011	HDPE
ZONE 235-6563	MH-2336	MH-2337	570.72	570.57	568.69	568.62	12.7	150	0.6	189.367	1.1046	0.2575	1.8	1.88	1.8	33.1	0.011	HDPE
ZONE 235-5094	MH-1830	MH-1831	566.41	566.28	565.42	565.33	9.6	150	0.99	100	1.52	0.6964	0.8	0.83	0.8	51	0.011	HDPE
ZONE 235-77	MH-343	MH-1854	581.43	581.33	580.37	580.38	9.8	150	0.09	1,000.00	0.4807	0.0036	0.9	0.91	0.8	8.8	0.011	HDPE
ZONE 235-3911	MH-2359	MH-185	578.17	578.32	576.67	576.59	12.8	150	0.6	164.757	1.1842	0.2156	1.5	1.35	1.59	30	0.011	HDPE
ZONE 235-1593	MH-2796	MH-2797	582.79	582.59	580.59	580.56	15.6	217	0.6	532.601	1.9395	0.8659	1.9	1.99	1.81	47.4	0.01	HDPE
ZONE 235-81	MH-813	MH-2805	581.32	581.16	580.2	580.21	15.3	150	0.09	1,000.00	0.4807	0.0037	0.9	0.97	0.8	24.3	0.011	HDPE
ZONE 235-2309	MH-1872	MH-1873	582.51	582.49	581.16	581.17	9.9	150	0.26	1,000.00	0.4807	0.1093	1.2	1.2	1.17	26.2	0.011	HDPE
ZONE 235-4418	MH-2375	MH-2376	598.23	598.04	596.83	596.87	12.9	150	0.6	366.041	0.8739	0.4933	1.1	1.25	1.02	49.9	0.01	HDPE
ZONE 235-1709	MH-388	MH-5123	587.06	586.69	584.89	584.77	16.2	150	0.6	134.775	1.3093	0.1677	1.9	2.02	1.77	26.9	0.011	HDPE
ZONE 235-4350	MH-207	MH-1877	602.25	602.46	601.3	601.42	11.8	150	0.27	100	1.52	0.0079	0.8	0.8	0.89	5.4	0.011	HDPE
ZONE 235-3835	MH-2390	MH-2391	582.07	581.96	581.12	581.01	13	150	0.41	125.944	1.3544	0.0419	0.8	0.8	0.8	12.4	0.011	HDPE
ZONE 235-5861	MH-3203	MH-3204	584.76	584.19	583.42	583.24	18	150	0.57	100	1.52	0.0992	1	1.19	0.8	18.6	0.011	HDPE
ZONE 235-2306	MH-1903	MH-1577	582.6	582.59	580.87	580.97	10.1	150	0.6	107.819	1.4639	0.1292	1.5	1.58	1.47	23.3	0.011	HDPE
ZONE 235-3833	MH-1909	MH-457	580.48	580.38	579.33	579.31	10.9	175	0.6	408.051	1.2486	0.5805	0.9	0.97	0.9	47.2	0.01	HDPE
ZONE 235-55	MH-2315	MH-2414	581.48	581.33	580.51	580.38	13.2	150	0.31	100	1.52	0.013	0.8	0.82	0.8	6.9	0.011	HDPE
ZONE 235-1967	MH-2415	MH-2416	587.36	587.54	585.5	585.66	34.6	150	0.6	219.17	1.0267	0.3138	1.7	1.71	1.73	39.9	0.011	HDPE
ZONE 235-6554	MH-3217	MH-2665	571.21	570.99	569.73	569.75	18	150	0.16	1,000.00	0.4807	0.0221	1.2	1.33	1.09	16.8	0.011	HDPE
ZONE 235-1490	MH-104	MH-1925	588.3	588.36	586.63	586.68	5.4	150	0.6	108.771	1.4574	0.1303	1.5	1.52	1.53	25.4	0.011	HDPE
ZONE 235-6010	MH-2696	MH-1093	578.55	578.7	577.24	577.22	18.1	150	0.26	1,000.00	0.4807	0.1057	1.2	1.16	1.33	36.7	0.011	HDPE
ZONE 235-3821	MH-95	MH-1680	581.06	580.91	580.06	579.96	10.2	150	0.64	100	1.52	0.1429	0.8	0.85	0.8	22.3	0.011	HDPE
ZONE 235-5831	MH-1943	MH-1944	581.46	581.46	579.27	579.22	10.4	150	0.6	215.536	1.0354	0.3044	2.1	2.04	2.09	37.8	0.011	HDPE
ZONE 235-1545	MH-4829	MH-4729	584.04	584.02	582.75	582.72	35.3	150	0.26	1,000.00	0.4807	0.1079	1.1	1.14	1.15	28	0.011	HDPE
ZONE 235-6704	MH-1952	MH-1953	575.7	575.38	573.48	573.47	10.4	400	0.62	1,000.00	7.2303	2.6345	1.7	1.83	1.51	56.6	0.01	HDPE
ZONE 235-3890	MH-4066	MH-4067	577.18	577.42	576.23	576.2	24.1	150	0.22	1,000.00	0.4807	0.0573	0.9	0.8	1.06	24.8	0.011	HDPE
ZONE 235-6474	MH-1969	MH-1251	581.55	581.62	578.65	578.62	10.5	150	0.6	358.364	0.8832	0.4754	2.8	2.75	2.85	52.1	0.01	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-5787	MH-1980	MH-1434	572.28	572.49	570.56	570.47	10.6	150	0.6	118.702	1.3951	0.1444	1.7	1.57	1.87	24.4	0.011	HDPE
ZONE 235-3981	MH-1257	MH-2471	565.76	565.89	564.81	564.94	13.5	150	0.36	101.445	1.5092	0.0206	0.8	0.8	0.8	8.6	0.011	HDPE
ZONE 235-6711	MH-1999	MH-2000	570.57	570.52	567.75	567.74	10.7	1,000.00	1.29	1,000.00	75.6728	70.0703	1.8	1.82	1.78	72.3	0.011	HDPE
ZONE 235-4553	MH-2490	MH-2491	601.52	601.54	600.57	600.59	13.6	150	0.25	1,000.00	0.4807	0.0963	0.8	0.8	0.8	27.7	0.011	HDPE
ZONE 235-1641	MH-2492	MH-2493	583.15	582.96	582.14	582.01	13.6	150	0.25	100	1.52	0.0061	0.8	0.86	0.8	4.7	0.011	HDPE
ZONE 235-5774	MH-2912	MH-2913	573.3	572.72	571.93	571.77	16.3	150	0.6	100	1.52	0.1146	1	1.22	0.8	20	0.011	HDPE
ZONE 235-3978	MH-190	MH-1256	565.5	565.65	564.55	564.68	13.3	150	0.44	100	1.52	0.0411	0.8	0.8	0.83	19.7	0.011	HDPE
ZONE 235-3933	MH-394	MH-5208	579.93	580.24	578.98	579.29	30.7	150	0.45	100	1.52	0.0441	0.8	0.8	0.8	12.5	0.011	HDPE
ZONE 235-2313	MH-2021	MH-2022	582.08	581.98	580.31	580.23	10.8	150	0.6	137.001	1.2986	0.1736	1.6	1.61	1.6	27	0.011	HDPE
ZONE 235-4398	MH-336	MH-2028	600.32	600.21	599.25	599.26	10.8	150	0.14	1,000.00	0.4807	0.0125	0.9	0.91	0.8	10.2	0.011	HDPE
ZONE 235-3678	MH-2031	MH-2032	578.63	578.74	576.98	577	10.9	150	0.15	1,000.00	0.4807	0.0181	1.5	1.5	1.59	16.1	0.011	HDPE
ZONE 235-1322	MH-2925	MH-2926	587.48	587.38	586.13	586.09	16.4	175	0.6	387.788	1.2808	0.5382	1.1	1.18	1.12	45	0.01	HDPE
ZONE 235-1300	MH-2239	MH-2513	587.3	587.2	585.46	585.45	13.9	400	0.62	1,000.00	7.2303	2.6543	1.4	1.44	1.35	36.8	0.01	HDPE
ZONE 235-1321	MH-3304	MH-2925	587.6	587.48	586.18	586.13	18.5	175	0.6	384.522	1.2862	0.5319	1.2	1.24	1.18	44.4	0.01	HDPE
ZONE 235-1403	MH-3266	MH-1589	593	592.56	591.79	591.61	18.5	150	0.34	100	1.52	0.0175	0.9	1.06	0.8	7.9	0.011	HDPE
ZONE 235-6493	MH-2524	MH-2525	581.81	581.74	580.86	580.79	14	150	0.32	184.363	1.1195	0.0285	0.8	0.8	0.8	11.7	0.011	HDPE
ZONE 235-1633	MH-2026	MH-2083	583.49	583.61	582.23	582.15	11.1	150	0.6	148.576	1.247	0.1907	1.2	1.11	1.31	28.3	0.011	HDPE
ZONE 235-4579	MH-2542	MH-2543	602.06	602.38	601.11	601.23	14.1	150	0.62	115.371	1.4151	0.154	0.9	0.8	1	23.6	0.011	HDPE
ZONE 235-1957	MH-3746	MH-4137	589.45	589.12	586.71	586.52	24.6	150	0.6	132.838	1.3188	0.1653	2.5	2.59	2.45	26.6	0.011	HDPE
ZONE 235-6560	MH-2095	MH-1818	571.26	571.12	568.96	568.88	13.7	150	0.6	171.869	1.1594	0.2297	2.1	2.14	2.08	31.2	0.011	HDPE
ZONE 235-4979	MH-2557	MH-2260	584.79	584.47	580.88	580.83	35.4	217	0.6	674.183	1.7239	1.2648	3.6	3.69	3.42	64.4	0.01	HDPE
ZONE 235-6008	MH-2984	MH-2695	578.22	578.42	577.27	577.25	16.7	150	0.24	1,000.00	0.4807	0.0857	0.9	0.8	1.01	30	0.011	HDPE
ZONE 235-3912	MH-2359	MH-2508	578.17	578.15	576.67	576.78	16.8	150	0.6	149.908	1.2415	0.193	1.3	1.35	1.23	29	0.011	HDPE
ZONE 235-4982	MH-2123	MH-2124	583.97	583.74	580.66	580.37	34.9	271	1.17	117.305	7.4747	1.4179	3.1	3.04	3.1	37.1	0.01	HDPE
ZONE 235-1580	MH-2126	MH-2127	587	586.85	585.1	585.04	11.5	150	0.6	196.031	1.0856	0.269	1.7	1.75	1.66	34.2	0.011	HDPE
ZONE 235-1635	MH-2128	MH-2129	583.26	583.12	581.53	581.46	11.5	150	0.6	177.921	1.1396	0.2398	1.6	1.59	1.51	32.2	0.011	HDPE
ZONE 235-4132	MH-3361	MH-3362	567.88	568.12	563.22	563.18	18.9	175	0.6	424.205	1.2246	0.614	4.6	4.48	4.77	51.6	0.01	HDPE
ZONE 235-3612	MH-3364	MH-3365	579.23	579.31	577.7	577.6	19	150	0.6	206.435	1.0579	0.2908	1.5	1.39	1.55	36.6	0.011	HDPE
ZONE 235-1483	MH-2591	MH-2309	588.44	588.46	587.49	587.48	14.4	150	0.1	1,000.00	0.4807	0.0044	0.8	0.8	0.83	13.3	0.011	HDPE
ZONE 235-1860	MH-3017	MH-3018	566.21	566.07	564.89	564.84	18.2	175	0.6	400.158	1.2608	0.5638	1.1	1.15	1.05	48.6	0.01	HDPE
ZONE 235-1405	MH-2168	MH-2169	588.26	588.04	587.21	587.09	11.7	150	0.37	100	1.52	0.0237	0.9	0.91	0.8	11.5	0.011	HDPE
ZONE 235-1619	MH-3389	MH-3390	584.82	584.59	583.83	583.64	19.1	150	0.36	100	1.52	0.0205	0.8	0.84	0.8	8.5	0.011	HDPE
ZONE 235-1485	MH-3395	MH-2381	588.43	588.37	586.16	586.27	19.1	150	0.6	165.01	1.1833	0.2159	2	2.12	1.94	30.4	0.011	HDPE
ZONE 235-65	MH-1034	MH-573	580.71	580.52	579.66	579.57	9.9	150	0.48	100	1.52	0.0552	0.8	0.9	0.8	13.9	0.011	HDPE
ZONE 235-1347	MH-3408	MH-3409	591.79	592.06	590.83	591.11	36.5	150	0.6	130.467	1.3308	0.1616	0.8	0.82	0.8	26.4	0.011	HDPE
ZONE 235-1791	MH-399	MH-302	572.01	572.04	569.95	569.9	42.7	150	0.2	1,000.00	0.4807	0.045	1.9	1.91	1.98	25.2	0.011	HDPE
ZONE 235-4538	MH-2703	MH-3412	606.76	607.14	605.81	606	19.3	150	0.28	100	1.52	0.0094	0.9	0.8	0.99	10.1	0.011	HDPE
ZONE 235-1465	MH-2209	MH-2210	585.43	585.26	584.43	584.31	11.9	150	0.57	100	1.52	0.0992	0.8	0.84	0.8	18.6	0.011	HDPE
ZONE 235-5803	MH-2213	MH-2214	577.53	577.41	576.58	576.46	11.9	150	0.5	100	1.52	0.0621	0.8	0.8	0.8	14.7	0.011	HDPE
ZONE 235-3820	MH-2222	MH-34	581.97	581.83	580.99	580.88	11	150	0.21	100	1.52	0.0037	0.8	0.84	0.8	3.7	0.011	HDPE
ZONE 235-4121	MH-377	MH-3919	565.62	565.92	564.53	564.51	22.4	150	0.25	1,000.00	0.4807	0.0894	1.1	0.94	1.26	31	0.011	HDPE
ZONE 235-1647	MH-3920	MH-1863	587.08	587.42	585.73	585.71	23.1	150	0.14	1,000.00	0.4807	0.0135	1.4	1.2	1.56	19.5	0.011	HDPE
ZONE 235-1299	MH-1102	MH-2239	587.39	587.3	585.47	585.46	12	400	0.62	1,000.00	7.2303	2.6496	1.5	1.52	1.44	39.1	0.01	HDPE
ZONE 235-1591	MH-2246	MH-2247	583.35	583.22	580.68	580.65	12.1	217	0.6	516.551	1.9694	0.8276	2.4	2.45	2.36	45.4	0.01	HDPE
ZONE 235-137	MH-2248	MH-2249	568.95	568.99	567.45	567.44	12.1	271	0.6	790.617	2.8792	1.5655	1.3	1.23	1.28	53.7	0.01	HDPE
ZONE 235-4462	MH-2691	MH-27	599.86	599.65	598.85	598.7	15	150	0.32	100	1.52	0.0151	0.8	0.86	0.8	7.4	0.011	HDPE
ZONE 235-6004	MH-2256	MH-2257	577.81	577.48	576.66	576.53	12.1	150	0.85	100	1.52	0.3885	0.9	1	0.8	37.3	0.011	HDPE
ZONE 235-6009	MH-2695	MH-2696	578.42	578.55	577.25	577.24	15	150	0.25	1,000.00	0.4807	0.0976	1.1	1.01	1.16	32.6	0.011	HDPE
ZONE 235-4980	MH-2260	MH-2261	584.47	584.23	580.83	580.78	36.2	217	0.6	691.665	1.7019	1.3288	3.3	3.42	3.23	65.9	0.01	HDPE
ZONE 235-4446	MH-2465	MH-82	595.06	594.95	594.05	593.93	12.3	217	1.37	106.252	4.3423	2.0882	0.8	0.8	0.8	54.2	0.01	HDPE
ZONE 235-1630	MH-3120	MH-2025	583.43	583.62	582.45	582.3	17.5	150	0.6	114.68	1.4194	0.1387	1	0.83	1.17	25.8	0.011	HDPE
ZONE 235-4985	MH-2291	MH-235	581	581	579.93	579.91	12.3	271	0.6	757.721	2.941	1.4652	0.8	0.8	0.82	59.4	0.01	HDPE
ZONE 235-1703	MH-3967	MH-3968	586.92	586.73	585.97	585.78	23.5	150	0.47	120.127	1.3869	0.0634	0.8	0.8	0.8	16.8	0.011	HDPE

PIPE REPORT ZONE 2,3 & 5 - Part - 3R

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
ZONE 235-3859	MH-3128	MH-573	580.66	580.52	579.71	579.55	17.2	150	0.22	111.132	1.4419	0.0049	0.8	0.8	0.82	10.1	0.011	HDPE
ZONE 235-6006	MH-2735	MH-2736	576.56	576.17	575.38	575.22	15.3	150	0.88	100	1.52	0.4553	0.9	1.03	0.8	40.5	0.011	HDPE
ZONE 235-4343	MH-2740	MH-2741	603.13	602.82	601.86	601.87	15.3	150	0.14	1,000.00	0.4807	0.0139	1	1.12	0.8	14.9	0.011	HDPE
ZONE 235-1505	MH-2746	MH-2747	587.8	587.71	586.75	586.68	15.3	150	0.6	233.39	0.995	0.3383	0.9	0.9	0.88	38.7	0.011	HDPE
ZONE 235-32	MH-2303	MH-2304	577.02	577	575.95	575.93	12.4	271	0.66	662.613	3.145	1.75	0.8	0.8	0.8	53.8	0.01	HDPE
ZONE 235-139	MH-2307	MH-2308	569.17	569.32	567.41	567.39	12.4	271	0.6	814.488	2.8367	1.6396	1.6	1.49	1.65	56.3	0.01	HDPE
ZONE 235-1481	MH-2309	MH-2310	588.46	588.53	587.48	587.47	12.4	150	0.18	1,000.00	0.4807	0.0321	0.9	0.83	0.92	18.8	0.011	HDPE
ZONE 235-54	MH-2314	MH-2315	581.63	581.48	580.66	580.53	12.5	150	0.27	100	1.52	0.0081	0.8	0.82	0.8	5.4	0.011	HDPE
ZONE 235-3613	MH-3365	MH-3907	579.31	578.59	577.6	577.5	23.6	150	0.6	221.754	1.0207	0.3171	1.2	1.55	0.94	37.2	0.011	HDPE
ZONE 235-3861	MH-2330	MH-195	580.89	580.77	579.94	579.82	12.3	150	0.2	102.333	1.5026	0.0034	0.8	0.8	0.8	7.2	0.011	HDPE
ZONE 235-1833	MH-468	MH-955	571.86	571.67	569.96	570.02	16.3	150	0.6	248.053	0.9651	0.3676	1.6	1.75	1.5	40.8	0.011	HDPE
ZONE 235-5997	MH-3161	MH-3162	581.62	581.15	580.38	580.2	17.7	150	0.59	100	1.52	0.1125	0.9	1.1	0.8	19.8	0.011	HDPE
ZONE 235-5773	MH-1691	MH-2912	574.19	573.3	572.59	572.35	23.7	150	0.54	100	1.52	0.0839	1.1	1.45	0.8	17.1	0.011	HDPE
ZONE 235-4467	MH-2788	MH-2789	599.24	598.93	598.13	597.98	15.6	150	0.45	100	1.52	0.0433	0.9	0.96	0.8	14.1	0.011	HDPE
ZONE 235-5	MH-3176	MH-3177	580.26	580.18	579.31	579.23	17.8	150	0.22	222.704	1.0186	0.0108	0.8	0.8	0.8	8.5	0.011	HDPE
ZONE 235-5759	MH-2360	MH-2361	572.88	572.62	571.37	571.35	12.8	175	0.6	466.375	1.1679	0.7123	1.2	1.34	1.1	50.3	0.01	HDPE
ZONE 235-5808	MH-4246	MH-5148	576.04	576.06	575.09	574.88	35.1	150	0.6	164.757	1.1842	0.2156	0.9	0.8	1.03	29.2	0.011	HDPE
ZONE 235-1371	MH-2369	MH-2370	592.72	593	589.98	589.97	12.8	150	0.17	1,000.00	0.4807	0.0268	2.7	2.59	2.88	16.8	0.011	HDPE
ZONE 235-1963	MH-3209	MH-3210	588.72	588.9	587.77	587.95	18	150	0.24	100	1.52	0.0056	0.8	0.8	0.8	4.5	0.011	HDPE
ZONE 235-3810	MH-2380	MH-175	581.73	581.57	580.75	580.62	13	150	0.25	100	1.52	0.007	0.8	0.83	0.8	10	0.011	HDPE
CO-1	MH-2233	MH-91	599.97	598.64	598.03	597.62	40.8	217	1.11	100	4.476	0.8997	1.3	1.72	0.8	34.4	0.01	HDPE
CO-2	MH-4684	MH-1	595.61	595	594.36	593.98	38.1	217	1.25	100	4.476	1.3676	0.9	1.03	0.8	42.9	0.01	HDPE
CO-3	MH-1	MH-53	595	594.74	593.98	593.72	55.4	217	0.96	207.894	3.1044	1.3676	0.8	0.8	0.81	47.1	0.01	HDPE
CO-4	MH-5841	MH-4683	596.96	595.69	595.21	594.74	46.9	150	0.46	100	1.52	0.0469	1.2	1.6	0.8	20.5	0.011	HDPE
CO-5	MH-6245	MH-975	596.24	596.24	592.81	592.64	37.4	150	0.6	222.585	1.0188	0.3185	3.4	3.28	3.45	38.5	0.011	HDPE
CO-6	MH-2898	MH-6412	581.65	581.3	580.28	580.1	18.6	400	1.54	100	20.7858	4.3142	0.9	0.97	0.8	39.7	0.011	HDPE
CO-7	MH-5728	MH-6029	580.6	581.56	579.65	579.9	25	150	1.12	100	1.52	1.1724	1.2	0.8	1.51	68.5	0.011	HDPE
CO-8	MH-6029	MH-4720	581.56	582.7	580.61	581.01	40.3	150	1.1	100	1.52	1.0599	1.2	0.8	1.55	64.5	0.011	HDPE
CO-9	MH-5123	MH-6197	586.69	586.64	584.77	584.63	19.4	150	0.6	145.878	1.2585	0.1864	1.8	1.77	1.86	40.1	0.011	HDPE
CO-10	MH-197	MH-5372	585.06	585.05	584.1	584.06	49.5	150	0.25	1,000.00	0.4807	0.0953	0.8	0.8	0.85	24.8	0.011	HDPE
CO-11	MH-4251	MH-4721	583.83	583.75	582.58	582.2	47	150	0.6	124.108	1.3644	0.1531	1.3	1.1	1.4	23.7	0.011	HDPE
CO-12	MH-5478	MH-5471	583.01	582.76	581.51	581.46	49.7	400	0.63	1,000.00	6.573	3.6063	1	1.1	0.9	48	0.011	HDPE
CO-23	MH-4027	MH-6556	567.78	567.42	566.73	566.47	26.6	150	0.94	100	1.52	0.5704	0.8	0.9	0.8	45.7	0.011	HDPE
CO-24	MH-6556	MH-5825	567.42	566.84	566.18	565.89	29.4	150	0.97	100	1.52	0.6345	0.9	1.08	0.8	48.4	0.011	HDPE
CO-25	MH-5825	MH-3430	566.84	565.76	565.52	564.81	71.5	150	1.02	100	1.52	0.7802	1	1.17	0.8	54.2	0.011	HDPE
CO-26	MH-5976	MH-5025	574.51	574.32	573.46	573.31	74.5	217	0.7	476.281	2.051	1.4098	0.8	0.83	0.8	54.5	0.01	HDPE
CO-27	MH-4326	MH-4	580.59	580	579.64	578.96	74.5	150	0.9	109.444	1.453	0.5398	0.8	0.8	0.89	44.9	0.011	HDPE
CO-28	MH-4	MH-3654	580	579.19	578.96	578.24	72	150	0.93	100	1.52	0.5398	0.8	0.89	0.8	44.4	0.011	HDPE
CO-29	MH-6063	MH-5435	585.93	584.82	584.98	583.79	146.6	150	0.89	123.524	1.3677	0.6199	0.8	0.8	0.88	53.1	0.011	HDPE
CO-30	MH-6275	MH-6542	610.36	610.46	609.38	609.26	51.6	175	0.6	423.122	1.2261	0.6115	0.9	0.8	1.02	45.6	0.01	HDPE
CO-31	MH-6335	MH-6276	613.83	612.4	611.87	611.45	41.7	150	0.38	100	1.52	0.0243	1.3	1.81	0.8	9.3	0.011	Concrete

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6672	553.45	551.45	(N/A)	(N/A)	551.45	106.46	0.65
MH-6743	553.7	551.7	(N/A)	(N/A)	551.7	105.51	0.6
MH-6763	554.14	552.14	(N/A)	(N/A)	552.14	105.51	0.6
MH-6762	554.64	552.64	(N/A)	(N/A)	552.64	105.51	0.6
MH-6761	555.25	553.25	(N/A)	(N/A)	553.25	105.51	0.6
MH-6745	555.86	553.86	(N/A)	(N/A)	553.86	105.51	0.6
MH-6760	555.87	553.87	(N/A)	(N/A)	553.87	105.51	0.6
MH-6759	556.59	554.14	(N/A)	(N/A)	554.14	105.51	0.77
MH-6758	557.11	554.29	(N/A)	(N/A)	554.29	105.51	0.81
MH-6757	557.72	554.48	(N/A)	(N/A)	554.48	105.51	0.83
MH-4091	558	555.99	557.05	(N/A)	555.99	96.17	0.8
MH-6728	558.2	554.63	(N/A)	(N/A)	554.63	105.51	0.83
MH-4090	558.32	557.37	556.31	(N/A)	556.07	95.55	0.72
MH-6746	558.49	555.94	(N/A)	(N/A)	555.94	96.27	0.79
MH-6416	558.92	557.97	(N/A)	(N/A)	557.97	1.37	0.12
MH-5751	558.93	557.92	(N/A)	(N/A)	557.92	1.07	0.12
MH-6756	559.02	554.87	(N/A)	(N/A)	554.87	105.51	0.84
MH-6747	559.03	555.9	(N/A)	(N/A)	555.9	96.43	0.77
MH-4778	559.4	558.45	(N/A)	(N/A)	557.59	0.57	0.07
MH-6748	559.42	555.87	(N/A)	(N/A)	555.87	96.58	0.74
MH-5752	559.67	557.84	(N/A)	(N/A)	557.84	1.17	0.13
MH-5801	559.68	558.66	(N/A)	(N/A)	558.38	0.98	0.09
MH-6755	559.68	555.07	(N/A)	(N/A)	555.07	105.51	0.84
MH-6457	559.87	557.71	555.83	(N/A)	555.73	97.94	0.8
MH-6749	559.93	555.69	(N/A)	(N/A)	555.69	98.14	0.81
MH-6750	560.01	555.64	(N/A)	(N/A)	555.64	98.32	0.81
MH-6751	560.12	555.57	(N/A)	(N/A)	555.57	98.79	0.81
MH-4777	560.2	559.25	(N/A)	(N/A)	558.76	0.52	0.07
MH-6560	560.26	559.18	555.25	(N/A)	555.25	105.51	0.84
MH-6752	560.3	555.46	(N/A)	(N/A)	555.46	99.43	0.82
MH-6753	560.36	555.31	(N/A)	(N/A)	555.31	100.59	0.83
MH-1061	560.46	559.51	559.33	(N/A)	559.26	0.86	0.1
MH-6559	560.46	555.36	(N/A)	(N/A)	555.36	100.27	0.83
MH-4948	560.46	559.2	(N/A)	(N/A)	559.2	0.92	0.09
MH-1060	560.47	559.52	(N/A)	(N/A)	559.52	0.18	0.04
MH-2097	560.52	559.57	(N/A)	(N/A)	559.57	0.65	0.08
MH-6754	560.6	559.53	(N/A)	(N/A)	559.53	4.39	0.2
MH-4490	560.83	559.88	(N/A)	(N/A)	559.88	0.34	0.06
MH-6564	560.89	559.82	(N/A)	(N/A)	559.82	4.18	0.19
MH-3255	560.92	559.97	(N/A)	(N/A)	559.65	0.45	0.07
MH-6121	560.93	(N/A)	(N/A)	(N/A)	559.87	0.13	0.03
MH-4491	561.21	559.76	559.31	(N/A)	556.61	94.12	0.58
MH-3254	561.28	560.33	(N/A)	(N/A)	560.15	0.38	0.06
MH-6550	561.33	560.26	(N/A)	(N/A)	560.26	3.74	0.17
MH-6261	561.33	560.23	(N/A)	(N/A)	560.23	0.55	0.07
MH-6260	561.56	(N/A)	(N/A)	(N/A)	560.61	0.23	0.05
MH-6500	561.69	560.74	(N/A)	(N/A)	560.74	0.48	0.08
MH-6472	561.73	560.71	(N/A)	(N/A)	560.65	3.16	0.16

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5024	561.76	560.81	(N/A)	(N/A)	560.21	0.29	0.05
MH-5063	561.79	560.84	(N/A)	(N/A)	560.67	0.3	0.05
MH-5185	562.49	561.48	561.48	(N/A)	561.48	2.87	0.15
MH-6426	562.57	561.62	(N/A)	(N/A)	559.85	0.91	0.1
MH-5184	562.74	561.73	(N/A)	(N/A)	561.73	1.54	0.11
MH-6207	562.78	561.83	(N/A)	(N/A)	561.47	0.16	0.04
MH-4878	562.94	561.99	(N/A)	(N/A)	561.25	0.24	0.05
MH-6425	563.19	562.24	(N/A)	(N/A)	562.24	0.54	0.07
MH-5474	563.2	(N/A)	(N/A)	(N/A)	561.72	0.22	0.05
MH-6508	563.25	561.98	(N/A)	(N/A)	561.98	1.25	0.1
MH-4131	563.27	561.62	(N/A)	(N/A)	561.62	1.86	0.17
MH-4130	563.31	561.7	561.75	562.36	561.65	1.83	0.16
MH-3457	563.37	561.85	(N/A)	(N/A)	561.81	0.85	0.1
MH-3456	563.4	561.92	562.45	(N/A)	561.89	0.79	0.1
MH-6012	563.42	562.47	562.24	(N/A)	562.21	0.7	0.08
MH-6254	563.44	562.49	(N/A)	(N/A)	562.49	0.38	0.06
MH-1217	563.45	(N/A)	(N/A)	(N/A)	562.16	0.06	0.02
MH-1216	563.49	562.54	(N/A)	(N/A)	562.47	1	0.11
MH-5051	563.53	562.41	(N/A)	(N/A)	562.41	1.11	0.09
MH-4440	563.59	561.59	(N/A)	(N/A)	561.59	1.93	0.17
MH-5865	563.67	562.72	(N/A)	(N/A)	562.72	0.25	0.05
MH-6289	563.69	562.1	(N/A)	(N/A)	562.1	0.52	0.08
MH-3963	563.74	562.79	(N/A)	(N/A)	562.31	0.18	0.04
MH-5172	563.79	562.84	(N/A)	(N/A)	562.71	0.24	0.05
MH-1736	563.81	562.46	(N/A)	(N/A)	562.46	0.3	0.05
MH-5203	563.88	561.37	562.3	(N/A)	561.37	90.28	0.61
MH-5643	563.88	561.54	(N/A)	(N/A)	561.54	2.09	0.18
MH-2112	563.93	562.98	(N/A)	(N/A)	562.65	0.97	0.1
MH-1447	563.94	562.42	(N/A)	(N/A)	562.42	0.31	0.06
MH-5022	563.98	562.42	563	(N/A)	562.33	2.47	0.19
MH-1448	563.98	562.39	(N/A)	(N/A)	562.39	0.35	0.06
MH-597	564	563.05	562.67	(N/A)	562.67	1	0.11
MH-6370	564	561.98	562.86	(N/A)	561.98	86.03	0.68
MH-4064	564	562.29	562.63	561.86	561.46	89.57	0.73
MH-1304	564	562.65	(N/A)	(N/A)	562.65	1.02	0.11
MH-5983	564.01	563.06	(N/A)	(N/A)	562.99	1.01	0.11
MH-5910	564.07	562.57	(N/A)	(N/A)	562.55	0.57	0.08
MH-6517	564.09	560.4	560.4	(N/A)	559.45	93.67	0.7
MH-2573	564.13	562.7	(N/A)	(N/A)	562.7	0.95	0.11
MH-4408	564.16	563.2	(N/A)	(N/A)	563.11	0.23	0.05
MH-1927	564.16	562.89	(N/A)	(N/A)	562.89	0.19	0.04
MH-5021	564.21	563.24	(N/A)	(N/A)	563.24	1.86	0.13
MH-1928	564.22	562.81	(N/A)	(N/A)	562.81	0.35	0.06
MH-2899	564.23	(N/A)	(N/A)	(N/A)	563.28	0	0.02
MH-6137	564.3	563.29	563.02	(N/A)	562.31	1.45	0.11
MH-2900	564.32	563.27	(N/A)	(N/A)	563.27	0.03	0.03
MH-327	564.33	562.55	563.38	(N/A)	562.52	0.59	0.07
MH-3962	564.33	563.38	(N/A)	(N/A)	563.03	0.13	0.03

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-4407	564.34	563.39	(N/A)	(N/A)	563.39	0.18	0.04
MH-3051	564.41	563.25	563.46	(N/A)	563.25	0.17	0.04
MH-4115	564.53	563.57	(N/A)	(N/A)	563.57	0.85	0.09
MH-5735	564.55	563.57	(N/A)	(N/A)	563.57	1.72	0.13
MH-366	564.68	563.73	(N/A)	(N/A)	563.73	0.09	0.03
MH-3742	564.7	561.47	(N/A)	(N/A)	561.47	2.18	0.17
MH-3881	564.72	563.77	(N/A)	(N/A)	563.77	0.71	0.08
MH-5741	564.75	563.8	(N/A)	(N/A)	563.8	0.18	0.04
MH-6414	564.77	(N/A)	(N/A)	(N/A)	563.54	0.08	0.03
MH-5699	564.8	(N/A)	(N/A)	(N/A)	563.85	0.05	0.03
MH-5614	564.8	562.67	(N/A)	(N/A)	562.67	0.48	0.08
MH-3879	564.81	(N/A)	(N/A)	(N/A)	563.86	0.06	0.03
MH-3290	564.83	563.88	(N/A)	(N/A)	563.88	0.07	0.03
MH-6263	564.88	(N/A)	(N/A)	(N/A)	563.93	0.12	0.03
MH-4126	564.9	(N/A)	(N/A)	(N/A)	563.95	0.05	0.03
MH-6160	564.91	563.96	(N/A)	(N/A)	563.94	1.4	0.11
MH-3880	564.93	563.98	(N/A)	(N/A)	563.98	0.64	0.08
MH-6290	564.94	(N/A)	(N/A)	(N/A)	563.73	0.03	0.02
MH-6806	565.03	564.08	560.47	(N/A)	560.47	93.02	0.74
MH-4248	565.05	564.07	(N/A)	(N/A)	564.03	1.24	0.13
MH-5380	565.07	(N/A)	(N/A)	(N/A)	564.12	0.03	0.03
MH-6166	565.09	564.14	(N/A)	(N/A)	563.52	0.17	0.04
MH-3743	565.1	561.44	560.61	(N/A)	560.61	92.52	0.79
MH-5549	565.12	562.8	(N/A)	(N/A)	562.8	0.88	0.1
MH-239	565.13	564.18	563.81	(N/A)	563.81	0.12	0.03
MH-4914	565.15	(N/A)	(N/A)	(N/A)	563.7	0.08	0.03
MH-3646	565.17	564.22	(N/A)	(N/A)	563.68	0.93	0.1
MH-149	565.24	564.29	563.49	563.84	563.49	0.27	0.05
MH-4975	565.27	563.42	563.44	562.89	562.49	84.92	0.56
MH-4247	565.27	564.32	564.3	(N/A)	564.3	1.15	0.1
MH-2409	565.3	564.35	(N/A)	(N/A)	564.35	0.05	0.02
MH-3449	565.35	(N/A)	(N/A)	(N/A)	564.4	0.02	0.01
MH-6313	565.36	564.41	(N/A)	(N/A)	564.41	1.12	0.11
MH-2408	565.41	(N/A)	(N/A)	(N/A)	564.46	0.02	0.01
MH-4850	565.42	(N/A)	(N/A)	(N/A)	564.47	0.07	0.03
MH-432	565.43	562.75	(N/A)	(N/A)	562.75	0.42	0.07
MH-431	565.44	562.85	564.08	(N/A)	562.85	0.4	0.07
MH-6528	565.45	560.51	(N/A)	(N/A)	560.51	92.67	0.76
MH-3645	565.48	564.53	(N/A)	(N/A)	564.43	0.87	0.09
MH-1946	565.49	(N/A)	(N/A)	(N/A)	564.54	0.05	0.04
MH-5517	565.49	564.54	(N/A)	(N/A)	564.54	0.49	0.07
MH-189	565.5	564.52	(N/A)	(N/A)	563.72	0.09	0.03
MH-190	565.5	564.55	564.55	(N/A)	564.55	0.08	0.04
MH-5797	565.55	564.6	(N/A)	(N/A)	564.6	0.08	0.03
MH-4974	565.56	563.63	563.55	(N/A)	562.93	83.72	0.66
MH-6623	565.59	(N/A)	(N/A)	(N/A)	564.02	0.15	0.04
MH-6006	565.59	564.64	(N/A)	(N/A)	563.92	0.1	0.03
MH-377	565.62	564.67	564.53	(N/A)	564.53	0.09	0.04

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-709	565.64	564.63	564.66	(N/A)	564.63	0.93	0.09
MH-710	565.65	564.67	(N/A)	(N/A)	564.67	0.79	0.1
MH-1256	565.65	564.7	(N/A)	(N/A)	564.68	0.04	0.02
MH-4648	565.67	564.64	(N/A)	(N/A)	564.34	0.25	0.05
MH-3429	565.68	564.73	(N/A)	(N/A)	564.73	0.16	0.04
MH-4445	565.72	563.35	(N/A)	(N/A)	563.35	0.3	0.05
MH-4851	565.72	564.33	564.77	(N/A)	564.33	0.13	0.03
MH-2872	565.74	562.92	(N/A)	(N/A)	562.92	0.36	0.06
MH-1257	565.76	564.81	564.81	(N/A)	564.75	0.03	0.02
MH-3430	565.76	564.57	564.81	564.81	564.55	1	0.1
MH-5104	565.82	563.85	563.66	(N/A)	563.66	4.19	0.21
MH-6365	565.85	564.9	(N/A)	(N/A)	564.9	0.79	0.09
MH-5033	565.85	562.88	(N/A)	(N/A)	562.88	0.84	0.1
MH-6047	565.88	(N/A)	(N/A)	(N/A)	564.93	0.04	0.02
MH-2471	565.89	564.94	(N/A)	(N/A)	564.94	0.02	0.01
MH-5516	565.89	564.94	(N/A)	(N/A)	564.94	0.33	0.06
MH-614	565.91	564.76	564.96	(N/A)	564.76	0.76	0.08
MH-613	565.91	564.81	(N/A)	(N/A)	564.81	0.65	0.08
MH-5768	565.91	564.96	(N/A)	(N/A)	564.96	0.09	0.03
MH-3919	565.92	564.51	(N/A)	(N/A)	564.51	0.11	0.05
MH-6036	565.92	564.97	(N/A)	(N/A)	563.84	0.2	0.04
MH-6106	565.94	(N/A)	(N/A)	(N/A)	564.99	0.04	0.02
MH-5357	565.95	(N/A)	(N/A)	(N/A)	565	0.5	0.08
MH-2258	565.95	(N/A)	(N/A)	(N/A)	565	0.03	0.02
MH-3175	566.04	565.09	(N/A)	(N/A)	564.88	0.8	0.09
MH-4647	566.06	564.83	(N/A)	(N/A)	564.83	0.2	0.04
MH-3018	566.07	564.84	564.87	(N/A)	564.84	0.64	0.09
MH-4889	566.08	(N/A)	(N/A)	(N/A)	564.83	0.03	0.02
MH-2259	566.09	564.91	(N/A)	(N/A)	564.91	0.04	0.02
MH-3285	566.09	(N/A)	(N/A)	(N/A)	564.99	0.01	0.01
MH-5604	566.1	(N/A)	(N/A)	(N/A)	565.15	0.07	0.04
MH-5309	566.14	(N/A)	(N/A)	(N/A)	565.14	0.03	0.02
MH-5924	566.17	(N/A)	(N/A)	(N/A)	565.22	0.04	0.02
MH-3017	566.21	564.91	(N/A)	(N/A)	564.89	0.56	0.08
MH-5758	566.24	565.29	(N/A)	(N/A)	565.29	0.08	0.03
MH-5018	566.25	565.11	(N/A)	(N/A)	565.11	0.14	0.04
MH-6044	566.28	(N/A)	(N/A)	(N/A)	565.33	0.05	0.02
MH-1831	566.28	565.33	(N/A)	(N/A)	565.27	0.73	0.08
MH-5019	566.29	564.47	(N/A)	(N/A)	564.47	0.15	0.04
MH-3821	566.31	(N/A)	(N/A)	(N/A)	565.17	0.01	0.01
MH-6227	566.31	565.22	(N/A)	(N/A)	565.22	0.51	0.08
MH-6165	566.32	(N/A)	(N/A)	(N/A)	564.75	0.05	0.02
MH-3770	566.35	(N/A)	(N/A)	(N/A)	565.4	0.02	0.02
MH-4998	566.37	563.05	(N/A)	(N/A)	563.05	0.33	0.06
MH-6262	566.4	565.42	565.42	(N/A)	565.36	0.96	0.11
MH-1830	566.41	565.46	(N/A)	(N/A)	565.42	0.7	0.08
MH-5032	566.48	562.99	(N/A)	(N/A)	562.95	0.81	0.1
MH-3358	566.5	(N/A)	(N/A)	(N/A)	565.55	0.04	0.02

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5859	566.58	(N/A)	(N/A)	(N/A)	565.63	0.03	0.02
MH-4795	566.66	564.19	(N/A)	(N/A)	564.19	0.18	0.04
MH-6071	566.7	(N/A)	(N/A)	(N/A)	565.2	0.04	0.02
MH-5601	566.7	565.69	(N/A)	(N/A)	565.37	0.27	0.05
MH-6718	566.7	(N/A)	(N/A)	(N/A)	565.75	0.09	0.03
MH-3702	566.72	(N/A)	(N/A)	(N/A)	565.77	0.03	0.03
MH-3359	566.74	565.38	565.38	(N/A)	565.38	0.07	0.04
MH-5584	566.76	565.5	(N/A)	(N/A)	565.5	0.32	0.06
MH-6466	566.76	(N/A)	(N/A)	(N/A)	565.81	0.06	0.02
MH-6696	566.76	564.75	(N/A)	(N/A)	563.85	79.49	0.53
MH-3587	566.79	(N/A)	(N/A)	(N/A)	565.84	0.02	0.02
MH-5825	566.84	565.89	565.85	(N/A)	565.52	0.78	0.09
MH-5569	566.87	565.92	565.85	(N/A)	565.8	2.03	0.18
MH-5319	566.91	565.96	(N/A)	(N/A)	565.83	0.64	0.08
MH-3442	566.95	(N/A)	(N/A)	(N/A)	566	0.03	0.02
MH-90	566.98	563.36	(N/A)	(N/A)	563.36	0.57	0.08
MH-89	566.98	563.44	565.75	(N/A)	563.42	0.55	0.08
MH-4134	566.98	563.98	(N/A)	(N/A)	563.98	0.21	0.04
MH-6654	567.02	(N/A)	(N/A)	(N/A)	564.23	0.08	0.03
MH-5677	567.02	565.41	(N/A)	(N/A)	565.41	2.92	0.13
MH-5583	567.03	565.75	(N/A)	(N/A)	565.75	0.22	0.05
MH-6035	567.04	(N/A)	(N/A)	(N/A)	565.51	0.04	0.02
MH-963	567.06	565.1	(N/A)	(N/A)	563.74	1.25	0.1
MH-962	567.07	566.12	565.21	(N/A)	565.21	1.15	0.13
MH-4905	567.12	565.35	(N/A)	(N/A)	565.35	0.11	0.05
MH-5094	567.15	566.2	(N/A)	(N/A)	566.2	0.14	0.04
MH-6133	567.15	565.74	(N/A)	(N/A)	565.74	2.18	0.18
MH-6283	567.18	(N/A)	(N/A)	(N/A)	566.23	0.16	0.04
MH-583	567.18	565.82	565.82	(N/A)	565.82	0.06	0.04
MH-584	567.19	565.8	(N/A)	(N/A)	565.8	0.07	0.04
MH-5687	567.24	565.67	(N/A)	(N/A)	565.67	2.25	0.18
MH-6183	567.25	566.28	(N/A)	(N/A)	566.28	0.14	0.04
MH-6248	567.29	(N/A)	(N/A)	(N/A)	566.34	0.06	0.03
MH-5093	567.32	(N/A)	(N/A)	(N/A)	566.37	0.04	0.02
MH-5826	567.34	566.39	(N/A)	(N/A)	566.39	0.12	0.03
MH-5680	567.39	(N/A)	(N/A)	(N/A)	566.44	0.07	0.03
MH-5572	567.4	565.45	(N/A)	(N/A)	565.45	2.83	0.17
MH-6556	567.42	566.47	(N/A)	(N/A)	566.18	0.63	0.08
MH-363	567.43	563.88	(N/A)	(N/A)	563.88	0.22	0.05
MH-364	567.43	564.92	563.79	(N/A)	563.79	0.42	0.07
MH-4577	567.47	566.52	(N/A)	(N/A)	566.4	0.54	0.07
MH-4527	567.51	565.31	(N/A)	(N/A)	565.31	0.13	0.04
MH-391	567.56	565.79	563.11	(N/A)	563.11	0.78	0.1
MH-1004	567.6	563.14	(N/A)	(N/A)	563.14	0.7	0.1
MH-5571	567.6	565.62	(N/A)	(N/A)	565.5	2.77	0.17
MH-3682	567.7	566.75	(N/A)	(N/A)	566.34	0.15	0.04
MH-6210	567.77	566.75	(N/A)	(N/A)	566.48	1.77	0.12
MH-4027	567.78	566.83	566.83	(N/A)	566.73	0.57	0.07

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-4576	567.8	566.85	(N/A)	(N/A)	566.8	0.43	0.06
MH-4360	567.85	565.07	(N/A)	(N/A)	565.07	0.18	0.04
MH-3361	567.88	563.22	(N/A)	(N/A)	563.22	0.61	0.09
MH-5152	567.93	566.98	(N/A)	(N/A)	566.92	0.08	0.03
MH-6048	567.96	563.59	(N/A)	(N/A)	563.59	0.49	0.08
MH-6319	568.09	567.14	565.67	(N/A)	565.67	0.72	0.11
MH-3362	568.12	563.18	(N/A)	(N/A)	563.18	0.68	0.09
MH-4549	568.25	567.3	(N/A)	(N/A)	567.3	0.13	0.03
MH-5528	568.28	567.33	(N/A)	(N/A)	567.26	0.33	0.06
MH-3490	568.43	567.48	(N/A)	(N/A)	567.33	0.03	0.02
MH-4548	568.46	567.51	(N/A)	(N/A)	567.51	0.08	0.03
MH-3681	568.57	567.62	(N/A)	(N/A)	566.96	0.1	0.03
MH-5419	568.6	567.63	(N/A)	(N/A)	567.53	1.48	0.14
MH-5780	568.7	567.75	(N/A)	(N/A)	567.39	0.4	0.06
MH-4315	568.71	567.76	(N/A)	(N/A)	567.76	0.04	0.02
MH-6596	568.76	566.96	567.81	(N/A)	566.96	74.65	0.53
MH-2607	568.77	567.82	(N/A)	(N/A)	567.68	0.01	0.01
MH-5943	568.83	(N/A)	(N/A)	(N/A)	567.88	0.12	0.03
MH-3776	568.85	567.48	(N/A)	(N/A)	567.48	1.54	0.14
MH-4314	568.9	(N/A)	(N/A)	(N/A)	567.95	0.01	0.01
MH-6695	568.95	565.32	(N/A)	(N/A)	565.32	79.27	0.53
MH-2248	568.95	567.45	(N/A)	(N/A)	567.45	1.57	0.14
MH-6403	568.99	568.04	(N/A)	(N/A)	568.01	1.32	0.11
MH-6153	568.99	(N/A)	(N/A)	(N/A)	567.93	0.18	0.04
MH-2249	568.99	567.44	(N/A)	(N/A)	567.44	1.6	0.15
MH-1425	569.01	(N/A)	(N/A)	(N/A)	567.97	0	0.01
MH-362	569.13	568.18	(N/A)	(N/A)	568.18	0.4	0.07
MH-2307	569.17	567.41	(N/A)	(N/A)	567.41	1.64	0.15
MH-4618	569.23	565.34	568.07	(N/A)	565.34	79.18	0.62
MH-2308	569.32	567.39	(N/A)	(N/A)	567.39	1.69	0.15
MH-4482	569.4	567.36	(N/A)	(N/A)	567.36	1.84	0.16
MH-5396	569.45	568.43	(N/A)	(N/A)	567.51	1.5	0.11
MH-5779	569.53	568.21	(N/A)	(N/A)	568.21	0.36	0.06
MH-4629	569.8	(N/A)	(N/A)	(N/A)	567.91	0.06	0.02
MH-5761	569.97	569.02	(N/A)	(N/A)	568.63	0.39	0.06
MH-5944	569.99	567.4	(N/A)	(N/A)	567.4	0.2	0.04
MH-5515	570	567.56	569.03	(N/A)	567.56	73.67	0.65
MH-6599	570.01	(N/A)	(N/A)	(N/A)	568.52	0.18	0.04
MH-4990	570.09	567.27	(N/A)	(N/A)	567.27	1.91	0.17
MH-4395	570.12	569.17	(N/A)	(N/A)	569.14	0.65	0.09
MH-4965	570.18	568.46	(N/A)	(N/A)	568.46	0.31	0.05
MH-4118	570.19	569.24	567.6	(N/A)	567.6	72.09	0.68
MH-6818	570.25	569.22	(N/A)	(N/A)	569.22	0.6	0.09
MH-5388	570.34	569.32	(N/A)	(N/A)	568.82	1.18	0.1
MH-147	570.36	569.41	569.39	(N/A)	569.39	0.44	0.07
MH-148	570.36	569.41	(N/A)	(N/A)	569.41	0.04	0.05
MH-6278	570.46	569.51	569.51	(N/A)	569.49	1.46	0.12
MH-4991	570.46	567.23	(N/A)	(N/A)	567.23	1.96	0.17

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-2000	570.52	569.45	567.74	(N/A)	567.74	71.88	0.72
MH-3839	570.53	(N/A)	(N/A)	(N/A)	569.58	0.01	0.01
MH-162	570.56	569.56	(N/A)	(N/A)	569.56	0.4	0.06
MH-161	570.56	569.61	569.61	(N/A)	569.61	0.38	0.06
MH-1999	570.57	569.6	567.75	(N/A)	567.75	70.07	0.72
MH-2337	570.57	568.62	(N/A)	(N/A)	568.62	0.27	0.05
MH-2666	570.72	(N/A)	(N/A)	(N/A)	569.77	0.02	0.02
MH-2336	570.72	568.69	(N/A)	(N/A)	568.69	0.26	0.05
MH-6694	570.87	569.62	567.81	(N/A)	567.81	68.1	0.72
MH-6032	570.92	(N/A)	(N/A)	(N/A)	569.97	0.03	0.02
MH-5931	570.92	569.97	(N/A)	(N/A)	569.52	0.34	0.06
MH-4396	570.96	569.08	(N/A)	(N/A)	569.08	0.65	0.09
MH-2665	570.99	569.75	(N/A)	(N/A)	569.75	0.02	0.02
MH-1819	571	568.83	(N/A)	(N/A)	568.83	0.25	0.05
MH-5746	571.04	567.18	(N/A)	(N/A)	567.18	2.02	0.17
MH-4117	571.06	570.11	(N/A)	(N/A)	569.48	0.17	0.04
MH-2941	571.07	570.12	(N/A)	(N/A)	570.12	0.52	0.08
MH-6076	571.08	567.03	(N/A)	(N/A)	567.03	0.29	0.05
MH-5383	571.1	569.73	(N/A)	(N/A)	569.73	0.62	0.09
MH-1818	571.12	568.88	(N/A)	(N/A)	568.88	0.24	0.05
MH-5422	571.13	(N/A)	(N/A)	(N/A)	570.18	0.01	0.02
MH-3840	571.2	569.56	(N/A)	(N/A)	569.56	0.02	0.02
MH-3217	571.21	569.73	(N/A)	(N/A)	569.73	0.04	0.03
MH-5387	571.24	569.71	(N/A)	(N/A)	569.71	1	0.09
MH-6329	571.24	(N/A)	(N/A)	(N/A)	570.23	0.21	0.04
MH-2095	571.26	568.96	(N/A)	(N/A)	568.96	0.23	0.05
MH-5423	571.28	570.14	(N/A)	(N/A)	570.14	0.02	0.02
MH-6817	571.29	567.89	(N/A)	(N/A)	567.89	67.42	0.72
MH-5294	571.32	570.37	(N/A)	(N/A)	569.71	0.03	0.02
MH-5851	571.35	(N/A)	(N/A)	(N/A)	570.4	0.01	0.02
MH-5657	571.37	570.39	(N/A)	(N/A)	570.03	1.95	0.13
MH-4510	571.37	570.35	(N/A)	(N/A)	570.35	0.03	0.02
MH-2242	571.49	569.71	(N/A)	(N/A)	569.71	0.06	0.04
MH-2940	571.5	570.55	(N/A)	(N/A)	570.28	0.08	0.03
MH-5384	571.51	569.82	(N/A)	(N/A)	569.82	0.59	0.08
MH-6816	571.52	567.93	(N/A)	(N/A)	567.93	67.4	0.72
MH-3224	571.54	570.32	(N/A)	(N/A)	570.32	0.04	0.03
MH-2241	571.63	569.7	(N/A)	(N/A)	569.7	0.12	0.03
MH-3501	571.63	569.07	(N/A)	(N/A)	569.07	0.22	0.05
MH-955	571.67	570.02	570.02	(N/A)	570.02	0.37	0.06
MH-3223	571.68	570.3	(N/A)	(N/A)	570.3	0.05	0.04
MH-956	571.69	570.11	(N/A)	(N/A)	570.11	0.34	0.06
MH-4595	571.71	(N/A)	(N/A)	(N/A)	570.76	0.02	0.02
MH-5397	571.81	567.13	565.5	570.83	565.5	78.74	0.7
MH-3901	571.81	568.93	(N/A)	(N/A)	568.93	0.94	0.11
MH-5845	571.85	(N/A)	(N/A)	(N/A)	570.08	0.33	0.06
MH-468	571.86	570.91	569.96	570.61	569.93	0.59	0.08
MH-2749	571.87	570.92	(N/A)	(N/A)	570.92	0.12	0.03

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-826	571.87	570.92	570.28	(N/A)	570.28	0.32	0.06
MH-516	571.89	569.01	569.42	(N/A)	568.97	0.91	0.1
MH-515	571.89	569.05	(N/A)	(N/A)	569.05	0.66	0.09
MH-3874	571.92	570.73	(N/A)	(N/A)	570.73	0.03	0.03
MH-5194	571.93	570.98	(N/A)	(N/A)	570.51	0.27	0.05
MH-3453	571.98	571.03	(N/A)	(N/A)	570.37	0.15	0.04
MH-539	571.98	570.97	(N/A)	(N/A)	570.97	0.14	0.04
MH-4820	572	568.86	(N/A)	(N/A)	568.86	0.96	0.11
MH-187	572	569.53	569.53	(N/A)	569.53	0.25	0.05
MH-3443	572	571.05	(N/A)	(N/A)	571.05	0.26	0.05
MH-4821	572	568.81	570.19	(N/A)	568.02	67.38	0.72
MH-3414	572	(N/A)	(N/A)	(N/A)	570.74	0.02	0.01
MH-399	572.01	569.95	(N/A)	(N/A)	569.95	0.04	0.03
MH-3125	572.01	570.18	(N/A)	(N/A)	570.18	1.76	0.11
MH-302	572.04	570.17	569.9	(N/A)	569.9	0.22	0.04
MH-301	572.04	570.37	(N/A)	(N/A)	570.37	0.16	0.04
MH-2856	572.05	570.21	571.1	(N/A)	570.21	0.34	0.06
MH-3105	572.09	570.71	(N/A)	(N/A)	570.71	0.14	0.04
MH-606	572.12	571.17	570.71	571.14	570.71	0.21	0.04
MH-5596	572.18	570.54	(N/A)	(N/A)	570.54	0.16	0.04
MH-5180	572.19	(N/A)	(N/A)	(N/A)	571.24	0	0.01
MH-5967	572.23	(N/A)	(N/A)	(N/A)	570.12	0.05	0.02
MH-6673	572.23	571.28	569.28	(N/A)	569.28	0.15	0.04
MH-3065	572.27	571.32	(N/A)	(N/A)	571.32	0.25	0.05
MH-4883	572.28	(N/A)	(N/A)	(N/A)	571.33	0.02	0.02
MH-1980	572.28	570.56	(N/A)	(N/A)	570.56	0.14	0.04
MH-2857	572.29	(N/A)	(N/A)	(N/A)	571.25	0.01	0.01
MH-212	572.34	569.92	(N/A)	(N/A)	569.92	0.89	0.08
MH-211	572.34	569.99	571.39	(N/A)	569.92	0.86	0.09
MH-1346	572.4	571.42	(N/A)	(N/A)	571.07	0.09	0.03
MH-4353	572.4	571.45	(N/A)	(N/A)	571.45	0.08	0.04
MH-3739	572.41	(N/A)	(N/A)	(N/A)	570.68	0.02	0.01
MH-3064	572.43	571.48	(N/A)	(N/A)	571.48	0.23	0.05
MH-5562	572.43	571.48	(N/A)	(N/A)	571.48	0.08	0.04
MH-6296	572.43	(N/A)	(N/A)	(N/A)	571.48	0.07	0.04
MH-6138	572.47	570.66	570.89	(N/A)	570.39	66.39	0.52
MH-5395	572.49	(N/A)	(N/A)	(N/A)	571.54	0	0.01
MH-1434	572.49	570.47	(N/A)	(N/A)	570.47	0.15	0.04
MH-158	572.49	571.54	(N/A)	(N/A)	571.54	0.12	0.04
MH-157	572.49	571.3	571.54	571.54	571.3	0.17	0.04
MH-6250	572.52	571.55	(N/A)	(N/A)	571.05	1.89	0.13
MH-1345	572.54	571.43	(N/A)	(N/A)	571.43	0.09	0.04
MH-1815	572.55	571.6	565.71	(N/A)	565.61	75.93	0.71
MH-5563	572.56	571.44	(N/A)	(N/A)	571.44	0.12	0.03
MH-5193	572.56	571.61	(N/A)	(N/A)	571.33	0.23	0.05
MH-1435	572.57	571.56	570.41	(N/A)	570.29	1.72	0.11
MH-3608	572.59	571.64	(N/A)	(N/A)	571.47	0.02	0.01
MH-1814	572.6	566.57	565.72	(N/A)	565.72	75.03	0.63

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-2361	572.62	571.35	(N/A)	(N/A)	571.22	0.74	0.08
MH-4430	572.71	571.6	(N/A)	(N/A)	571.6	0.33	0.06
MH-2913	572.72	571.77	(N/A)	(N/A)	571.23	0.13	0.03
MH-4692	572.73	571.78	(N/A)	(N/A)	571.78	0.11	0.03
MH-3252	572.78	571.83	(N/A)	(N/A)	571.83	0.11	0.04
MH-2480	572.85	571.41	(N/A)	(N/A)	571.41	0.09	0.06
MH-6815	572.87	571.05	(N/A)	(N/A)	570.79	57.36	0.48
MH-2360	572.88	571.93	571.4	(N/A)	571.37	0.71	0.1
MH-6301	572.88	571.68	(N/A)	(N/A)	571.68	9	0.23
MH-5475	572.97	571.88	(N/A)	(N/A)	571.88	0.21	0.04
MH-3607	572.99	572.04	(N/A)	(N/A)	571.86	0.02	0.01
MH-3779	573.04	(N/A)	(N/A)	(N/A)	571.71	0.03	0.01
MH-3740	573.07	(N/A)	(N/A)	(N/A)	571.9	0.05	0.02
MH-5774	573.09	571.81	(N/A)	(N/A)	571.81	0.29	0.05
MH-2919	573.09	(N/A)	(N/A)	(N/A)	572.14	0.01	0.01
MH-5459	573.09	572.14	571.9	(N/A)	570.47	1.16	0.11
MH-3433	573.21	572.19	(N/A)	(N/A)	571.75	1.56	0.11
MH-340	573.21	572.26	572.12	(N/A)	572.12	0.04	0.02
MH-339	573.21	572.26	572.12	(N/A)	571.99	0.1	0.03
MH-6266	573.27	(N/A)	(N/A)	(N/A)	572.32	0.16	0.04
MH-170	573.29	(N/A)	(N/A)	(N/A)	572.34	0	0.02
MH-169	573.29	572.34	572.34	572.34	572.34	0.06	0.02
MH-2912	573.3	572.35	(N/A)	(N/A)	571.93	0.11	0.03
MH-1542	573.41	572.46	572.46	(N/A)	572.46	0.04	0.02
MH-1541	573.42	(N/A)	(N/A)	(N/A)	572.47	0.01	0.01
MH-5506	573.42	572.47	(N/A)	(N/A)	572.05	0.2	0.04
MH-6152	573.5	572.55	(N/A)	(N/A)	569.16	0.51	0.07
MH-5250	573.55	(N/A)	(N/A)	(N/A)	572.6	0.02	0.02
MH-5077	573.62	572.67	(N/A)	(N/A)	572.28	0.61	0.08
MH-4822	573.62	(N/A)	(N/A)	(N/A)	572.34	0.01	0.01
MH-5888	573.68	572.48	(N/A)	(N/A)	572.37	8.93	0.23
MH-4886	573.71	(N/A)	(N/A)	(N/A)	572.76	0.03	0.03
MH-6600	573.75	(N/A)	(N/A)	(N/A)	572.8	0.2	0.04
MH-4450	573.8	572.85	(N/A)	(N/A)	571.83	0.06	0.02
MH-6692	573.91	572.1	(N/A)	(N/A)	571.39	57.27	0.48
MH-5671	574.04	573.09	(N/A)	(N/A)	573.09	0.11	0.05
MH-4945	574.14	573.05	573.19	(N/A)	572.51	0.84	0.09
MH-5244	574.17	572.3	(N/A)	(N/A)	572.3	0.19	0.04
MH-1691	574.19	573.24	(N/A)	(N/A)	572.59	0.08	0.03
MH-5246	574.22	573.27	572.54	(N/A)	572.54	0.85	0.09
MH-5505	574.26	573.31	(N/A)	(N/A)	572.88	0.16	0.04
MH-5995	574.29	573.31	(N/A)	(N/A)	572.19	1.81	0.13
MH-4112	574.32	572.56	572.56	(N/A)	572.56	0.18	0.04
MH-5025	574.32	573.37	573.31	(N/A)	572.52	1.54	0.11
MH-5887	574.33	572.97	(N/A)	(N/A)	572.97	8.87	0.23
MH-5258	574.35	(N/A)	(N/A)	(N/A)	572.83	0.02	0.01
MH-4111	574.41	572.72	(N/A)	(N/A)	572.72	0.12	0.03
MH-5612	574.41	573.46	(N/A)	(N/A)	573.43	0.07	0.03

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5638	574.47	(N/A)	(N/A)	(N/A)	572.77	0.02	0.01
MH-5976	574.51	573.46	573.56	(N/A)	573.46	1.41	0.13
MH-1690	574.53	573.58	(N/A)	(N/A)	573.33	0.07	0.02
MH-5828	574.54	(N/A)	(N/A)	(N/A)	572.73	0.03	0.02
MH-6618	574.64	(N/A)	(N/A)	(N/A)	573.69	0.07	0.02
MH-3717	574.66	(N/A)	(N/A)	(N/A)	573.71	0.04	0.04
MH-2871	574.76	573.81	(N/A)	(N/A)	573.12	0.05	0.02
MH-5014	574.82	573.87	(N/A)	(N/A)	573.22	0.57	0.07
MH-2583	574.86	573.54	(N/A)	(N/A)	573.54	1.27	0.14
MH-4944	574.87	573.92	(N/A)	(N/A)	573.51	0.66	0.08
MH-2582	574.99	573.56	(N/A)	(N/A)	573.56	1.24	0.14
MH-6066	575.03	(N/A)	(N/A)	(N/A)	574.08	0.04	0.03
MH-6691	575.04	573.15	(N/A)	(N/A)	572.46	57.12	0.48
MH-6453	575.17	574.22	(N/A)	(N/A)	574.22	0.22	0.05
MH-1668	575.23	573.97	(N/A)	(N/A)	573.97	0.22	0.05
MH-3511	575.25	574.3	(N/A)	(N/A)	573.78	0.06	0.02
MH-4312	575.26	573.17	574.28	(N/A)	573.17	57.05	0.57
MH-5613	575.27	574.32	(N/A)	(N/A)	573.88	0.06	0.02
MH-5245	575.31	573.6	574.36	(N/A)	573.6	0.73	0.08
MH-738	575.31	573.68	574.27	(N/A)	573.62	1.23	0.13
MH-737	575.32	574.3	(N/A)	(N/A)	574.3	1.19	0.12
MH-2759	575.32	574.37	(N/A)	(N/A)	573.97	0.03	0.02
MH-5909	575.35	574.4	(N/A)	(N/A)	573.81	0.09	0.03
MH-1953	575.38	573.47	574.18	(N/A)	573.47	8.82	0.23
MH-163	575.5	574.03	574.31	574.55	574.03	0.2	0.04
MH-164	575.5	(N/A)	(N/A)	(N/A)	574.55	0	0.01
MH-4271	575.57	574.62	(N/A)	(N/A)	574.2	0.51	0.07
MH-5908	575.57	(N/A)	(N/A)	(N/A)	574.62	0.04	0.02
MH-5492	575.63	(N/A)	(N/A)	(N/A)	574.68	0.08	0.04
MH-2501	575.67	574.72	(N/A)	(N/A)	573.8	0.06	0.02
MH-1952	575.7	574.63	573.73	(N/A)	573.48	2.63	0.22
MH-5842	575.82	574.79	(N/A)	(N/A)	574.59	1.18	0.1
MH-4362	575.82	574.87	(N/A)	(N/A)	573.83	0.1	0.03
MH-5777	575.84	574.82	(N/A)	(N/A)	574.82	1.17	0.12
MH-2758	575.88	(N/A)	(N/A)	(N/A)	574.52	0.02	0.01
MH-2500	575.88	(N/A)	(N/A)	(N/A)	574.86	0.03	0.02
MH-6452	575.96	(N/A)	(N/A)	(N/A)	575.01	0.16	0.04
MH-4775	575.97	574.64	575.02	(N/A)	574.64	0.12	0.05
MH-2812	576	574.43	(N/A)	(N/A)	574.43	0.16	0.04
MH-6481	576.02	575.07	(N/A)	(N/A)	575.07	0.42	0.07
MH-401	576.02	575.07	574.57	(N/A)	574.57	0.61	0.07
MH-4246	576.04	575.09	(N/A)	(N/A)	575.09	0.22	0.04
MH-5148	576.06	574.88	(N/A)	(N/A)	573.14	0.28	0.05
MH-3690	576.09	575.14	(N/A)	(N/A)	574.52	0.03	0.02
MH-2736	576.17	575.22	(N/A)	(N/A)	574.87	0.48	0.07
MH-3683	576.26	574.61	575.31	(N/A)	574.61	0.14	0.04
MH-6126	576.27	575.32	(N/A)	(N/A)	574.53	0.6	0.08
MH-5589	576.33	(N/A)	(N/A)	(N/A)	575.38	0.02	0.02

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5118	576.33	(N/A)	(N/A)	(N/A)	574.8	0.03	0.02
MH-5708	576.38	575.41	(N/A)	(N/A)	573.84	1.74	0.13
MH-3115	576.43	(N/A)	(N/A)	(N/A)	575.48	0.01	0.01
MH-3337	576.45	575.5	(N/A)	(N/A)	575.35	0.15	0.04
MH-6318	576.55	575.35	(N/A)	(N/A)	574.88	6.17	0.19
MH-2735	576.56	575.61	(N/A)	(N/A)	575.38	0.46	0.07
MH-5550	576.61	574.68	(N/A)	(N/A)	574.68	0.46	0.07
MH-4361	576.72	575.77	(N/A)	(N/A)	575.14	0.08	0.03
MH-3231	576.73	575.78	(N/A)	(N/A)	575.68	0.12	0.03
MH-3689	576.78	(N/A)	(N/A)	(N/A)	575.36	0.01	0.01
MH-6480	576.89	(N/A)	(N/A)	(N/A)	575.94	0.3	0.05
MH-998	576.91	575.42	574.83	(N/A)	574.8	0.58	0.07
MH-6671	576.95	(N/A)	(N/A)	(N/A)	572	0.62	0.08
MH-3116	576.97	575.46	(N/A)	(N/A)	575.46	0.01	0.01
MH-999	576.98	574.87	(N/A)	(N/A)	574.87	0.39	0.07
MH-2304	577	575.93	(N/A)	(N/A)	575.93	1.76	0.15
MH-2431	577	573.64	576.05	(N/A)	573.64	31.2	0.55
MH-2664	577	573.62	576.05	(N/A)	573.62	31.25	0.55
MH-1967	577	575.91	(N/A)	(N/A)	575.91	1.78	0.14
MH-6334	577	(N/A)	(N/A)	(N/A)	576.05	0.05	0.02
MH-2499	577	573.67	575.77	(N/A)	573.67	31.15	0.54
MH-2430	577	573.65	576.05	(N/A)	573.65	31.19	0.54
MH-5874	577	(N/A)	(N/A)	(N/A)	576.05	0.03	0.03
MH-2584	577	576.05	(N/A)	(N/A)	576.05	0.04	0.02
MH-6813	577	575.27	574.84	(N/A)	574.84	24.92	0.41
MH-1968	577	575.6	575.9	(N/A)	575.47	22.56	0.32
MH-6463	577	574.82	573.53	(N/A)	573.43	56.22	0.68
MH-6200	577	(N/A)	(N/A)	(N/A)	576.05	0.04	0.03
MH-3230	577.02	576.07	(N/A)	(N/A)	575.96	0.11	0.03
MH-2303	577.02	575.95	(N/A)	(N/A)	575.95	1.75	0.14
MH-5846	577.02	(N/A)	(N/A)	(N/A)	575.54	0.02	0.01
MH-715	577.02	575.84	(N/A)	(N/A)	575.84	0.69	0.09
MH-716	577.03	575.91	575.89	(N/A)	575.89	0.68	0.09
MH-5117	577.07	573.26	(N/A)	(N/A)	573.26	56.35	0.64
MH-5541	577.14	576.19	(N/A)	(N/A)	576.19	0.02	0.02
MH-4066	577.18	(N/A)	(N/A)	(N/A)	576.23	0.06	0.03
MH-4278	577.23	575.19	575.13	(N/A)	575.13	1.14	0.1
MH-4587	577.26	(N/A)	(N/A)	(N/A)	576.31	0.01	0.01
MH-6185	577.29	(N/A)	(N/A)	(N/A)	576.34	0.03	0.03
MH-4288	577.32	(N/A)	(N/A)	(N/A)	576.37	0.03	0.03
MH-4599	577.32	(N/A)	(N/A)	(N/A)	576.34	0.02	0.01
MH-5289	577.36	(N/A)	(N/A)	(N/A)	575.68	0.01	0.01
MH-2364	577.36	576.29	(N/A)	(N/A)	576.08	1.74	0.11
MH-5109	577.39	(N/A)	(N/A)	(N/A)	576.44	0.03	0.02
MH-2214	577.41	576.46	(N/A)	(N/A)	576.37	0.08	0.03
MH-4067	577.42	576.2	(N/A)	(N/A)	576.2	0.07	0.04
MH-2257	577.48	576.53	(N/A)	(N/A)	575.98	0.42	0.06
MH-5875	577.5	576	(N/A)	(N/A)	576	0.06	0.04

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-2213	577.53	576.58	(N/A)	(N/A)	576.58	0.06	0.02
MH-5225	577.56	(N/A)	(N/A)	(N/A)	576.61	0.13	0.03
MH-5028	577.57	575.74	(N/A)	(N/A)	575.74	0.18	0.04
MH-6123	577.58	(N/A)	(N/A)	(N/A)	576.63	0.03	0.02
MH-3725	577.59	574.92	(N/A)	(N/A)	574.92	0.38	0.07
MH-5748	577.59	575.99	(N/A)	(N/A)	575.99	0.64	0.09
MH-5546	577.6	(N/A)	(N/A)	(N/A)	576.65	0.11	0.05
MH-4579	577.61	576.17	(N/A)	(N/A)	576.17	0.08	0.04
MH-469	577.62	576.35	(N/A)	(N/A)	576.35	0.04	0.03
MH-470	577.62	576.34	576.34	(N/A)	576.34	0.09	0.04
MH-5897	577.63	575.95	575.95	(N/A)	575.95	0.14	0.04
MH-5542	577.63	(N/A)	(N/A)	(N/A)	576.6	0.01	0.01
MH-6125	577.65	576.7	(N/A)	(N/A)	575.91	0.54	0.07
MH-5322	577.66	575.34	(N/A)	(N/A)	575.34	0.04	0.03
MH-6533	577.67	(N/A)	(N/A)	(N/A)	576.72	0.01	0.01
MH-6434	577.68	575.32	(N/A)	(N/A)	575.32	2.32	0.19
MH-5619	577.71	575.5	575.5	(N/A)	575.5	0.22	0.05
MH-6128	577.73	(N/A)	(N/A)	(N/A)	575.61	0.02	0.01
MH-4957	577.73	(N/A)	(N/A)	(N/A)	576.78	0.02	0.02
MH-6554	577.77	(N/A)	(N/A)	(N/A)	576.82	0.01	0.01
MH-477	577.79	576.15	576.15	(N/A)	576.15	0.11	0.05
MH-4588	577.79	576.01	576.28	(N/A)	576.01	0.16	0.04
MH-934	577.8	576.13	(N/A)	(N/A)	576.13	0.13	0.03
MH-2256	577.81	576.86	(N/A)	(N/A)	576.66	0.39	0.06
MH-3965	577.82	(N/A)	(N/A)	(N/A)	576.87	0.01	0.02
MH-6812	577.84	575.33	575.46	(N/A)	575.33	2.3	0.19
MH-321	577.87	575.3	576.92	(N/A)	575.3	0.38	0.06
MH-322	577.87	575.29	(N/A)	(N/A)	575.29	0.38	0.06
MH-1445	577.9	576.05	576.85	(N/A)	576.05	0.64	0.09
MH-6297	577.9	576.95	(N/A)	(N/A)	576.92	0.59	0.08
MH-6046	577.9	(N/A)	(N/A)	(N/A)	576.95	0.03	0.02
MH-6468	577.95	(N/A)	(N/A)	(N/A)	577	0.01	0.02
MH-5558	577.99	(N/A)	(N/A)	(N/A)	577.04	0.01	0.02
MH-1446	577.99	576.09	(N/A)	(N/A)	576.09	0.61	0.09
MH-4218	578.03	577.08	(N/A)	(N/A)	576.93	0.04	0.02
MH-3041	578.03	576.5	575.23	(N/A)	575.17	1.11	0.12
MH-6298	578.07	576.76	(N/A)	(N/A)	576.76	0.67	0.09
MH-6544	578.15	(N/A)	(N/A)	(N/A)	577.2	0.02	0.02
MH-2508	578.15	576.78	(N/A)	(N/A)	576.78	0.19	0.04
MH-2359	578.17	577.22	576.67	(N/A)	576.67	0.22	0.04
MH-5628	578.19	(N/A)	(N/A)	(N/A)	577.24	0.03	0.03
MH-3766	578.2	575.01	(N/A)	(N/A)	575.01	0.36	0.06
MH-4958	578.2	576.75	(N/A)	(N/A)	576.75	0.07	0.04
MH-2984	578.22	(N/A)	(N/A)	(N/A)	577.27	0.09	0.04
MH-6449	578.23	577.03	(N/A)	(N/A)	576.23	6.05	0.19
MH-5736	578.24	576.71	(N/A)	(N/A)	576.71	0.09	0.04
MH-376	578.25	576.86	(N/A)	(N/A)	576.86	0.19	0.04
MH-375	578.25	577.3	576.86	(N/A)	576.86	0.18	0.04

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-3110	578.25	577.14	(N/A)	(N/A)	577.03	0.37	0.06
MH-2159	578.26	576.94	(N/A)	(N/A)	576.94	0.03	0.02
MH-4285	578.27	577.09	(N/A)	(N/A)	577.09	0.16	0.04
MH-1841	578.31	575.25	576.92	(N/A)	575.25	0.26	0.05
MH-185	578.32	576.59	(N/A)	(N/A)	576.59	0.22	0.05
MH-186	578.33	576.59	577.38	(N/A)	576.59	0.23	0.05
MH-6149	578.33	576.28	(N/A)	(N/A)	576.28	0.14	0.04
MH-4217	578.34	(N/A)	(N/A)	(N/A)	577.33	0.01	0.01
MH-4664	578.36	576.21	(N/A)	(N/A)	576.21	0.6	0.08
MH-5968	578.37	(N/A)	(N/A)	(N/A)	576.29	0.04	0.02
MH-6224	578.4	576.06	(N/A)	(N/A)	576.06	2.15	0.12
MH-6689	578.4	573.82	(N/A)	(N/A)	573.82	30.43	0.51
MH-4841	578.41	577.46	(N/A)	(N/A)	577.46	0.15	0.04
MH-2695	578.42	577.25	(N/A)	(N/A)	577.25	0.1	0.05
MH-1842	578.44	575.19	(N/A)	(N/A)	575.19	0.27	0.05
MH-3439	578.5	577.55	(N/A)	(N/A)	577.55	0.05	0.03
MH-4249	578.51	577.52	(N/A)	(N/A)	577.52	0.07	0.03
MH-849	578.54	577.59	(N/A)	(N/A)	577.59	0.01	0.02
MH-5418	578.55	577.6	576.49	(N/A)	576.49	0.26	0.05
MH-2696	578.55	577.24	(N/A)	(N/A)	577.24	0.11	0.05
MH-848	578.56	(N/A)	(N/A)	(N/A)	577.6	0.01	0.01
MH-1136	578.56	577.61	576.6	(N/A)	575.8	1.69	0.12
MH-6505	578.58	(N/A)	(N/A)	(N/A)	577.63	0.03	0.02
MH-3907	578.59	577.5	(N/A)	(N/A)	577.11	0.33	0.06
MH-4148	578.59	574.99	(N/A)	(N/A)	574.99	0.29	0.05
MH-4331	578.6	577.65	(N/A)	(N/A)	577.65	0.13	0.03
MH-5102	578.6	576.28	(N/A)	(N/A)	576.28	0.06	0.03
MH-3155	578.61	577.21	577.66	(N/A)	577.01	20.76	0.32
MH-2031	578.63	576.98	(N/A)	(N/A)	576.98	0.04	0.03
MH-568	578.67	576.58	(N/A)	(N/A)	576.58	0.72	0.1
MH-567	578.67	577.72	576.6	(N/A)	576.58	0.71	0.1
MH-1093	578.7	577.22	(N/A)	(N/A)	577.22	0.11	0.06
MH-5485	578.71	576.93	(N/A)	(N/A)	576.93	0.07	0.04
MH-1094	578.73	577.78	577.22	(N/A)	577.22	0.36	0.06
MH-3438	578.74	(N/A)	(N/A)	(N/A)	577.74	0.03	0.02
MH-2032	578.74	577	(N/A)	(N/A)	577	0.02	0.02
MH-1805	578.74	577.2	(N/A)	(N/A)	576.99	1.72	0.11
MH-4149	578.74	577.19	574.86	(N/A)	574.86	0.35	0.06
MH-5280	578.76	(N/A)	(N/A)	(N/A)	577.81	0.01	0.01
MH-165	578.77	576.41	577.82	(N/A)	576.41	0.27	0.05
MH-166	578.77	576.41	(N/A)	(N/A)	576.41	0.28	0.05
MH-5101	578.78	576.9	576.25	(N/A)	576.25	0.1	0.04
MH-4855	578.8	575.3	(N/A)	(N/A)	575.3	0.2	0.04
MH-3847	578.83	577.4	575.1	(N/A)	575.1	0.35	0.06
MH-1135	578.83	577.88	(N/A)	(N/A)	577.7	0.99	0.1
MH-4986	578.84	576.89	(N/A)	(N/A)	576.89	0.08	0.04
MH-2108	578.89	577.65	577.63	576.36	575.62	2.38	0.13
MH-1804	578.9	577.33	577.21	(N/A)	577.21	1.71	0.14

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5693	578.93	577.92	(N/A)	(N/A)	577.92	0.27	0.05
MH-6558	578.96	(N/A)	(N/A)	(N/A)	578.01	0.03	0.03
MH-5729	579.02	578.07	577.82	(N/A)	577.82	5.89	0.19
MH-2975	579.13	578.11	(N/A)	(N/A)	577.76	0.13	0.03
MH-5987	579.15	575.68	(N/A)	(N/A)	575.68	0.17	0.04
MH-2642	579.16	578.21	(N/A)	(N/A)	577.94	0.24	0.05
MH-1083	579.18	576.39	(N/A)	(N/A)	576.39	0.14	0.04
MH-3654	579.19	578.24	(N/A)	(N/A)	577.89	0.6	0.08
MH-2914	579.22	(N/A)	(N/A)	(N/A)	578.27	0	0.01
MH-31	579.23	576.21	578.28	(N/A)	576.21	0.12	0.03
MH-32	579.23	(N/A)	(N/A)	(N/A)	578.28	0.02	0.02
MH-3364	579.23	577.7	(N/A)	(N/A)	577.7	0.29	0.05
MH-4544	579.25	(N/A)	(N/A)	(N/A)	578.3	0.04	0.03
MH-2837	579.26	577.67	576.86	(N/A)	576.86	0.14	0.04
MH-1084	579.29	576.25	578.27	578.34	576.13	2.08	0.17
MH-5750	579.29	578.19	(N/A)	(N/A)	578.19	0.14	0.04
MH-2836	579.29	577.69	(N/A)	(N/A)	577.69	0.04	0.03
MH-4205	579.3	(N/A)	(N/A)	(N/A)	578.35	0.02	0.02
MH-3580	579.3	578.35	578.24	(N/A)	578.24	0.12	0.03
MH-4606	579.31	578.36	(N/A)	(N/A)	577.77	0.11	0.03
MH-3365	579.31	577.6	(N/A)	(N/A)	577.6	0.32	0.06
MH-5427	579.32	(N/A)	(N/A)	(N/A)	577.77	0.01	0.01
MH-5662	579.33	577.54	(N/A)	(N/A)	577.54	0.07	0.04
MH-6234	579.33	574.57	574.94	(N/A)	573.92	30.4	0.51
MH-5520	579.34	576.61	(N/A)	(N/A)	576.61	0.1	0.05
MH-655	579.34	577.04	576.36	578.33	576.33	0.57	0.08
MH-656	579.35	576.42	(N/A)	(N/A)	576.42	0.48	0.08
MH-5030	579.35	578.4	(N/A)	(N/A)	578.21	0.97	0.1
MH-5287	579.39	578.24	(N/A)	(N/A)	578.24	0.09	0.04
MH-5593	579.4	(N/A)	(N/A)	(N/A)	578.45	0.02	0.02
MH-5281	579.41	577.78	(N/A)	(N/A)	577.78	0.01	0.02
MH-5663	579.42	577.49	(N/A)	(N/A)	577.49	0.12	0.03
MH-5633	579.43	(N/A)	(N/A)	(N/A)	578.48	0.02	0.02
MH-5785	579.43	578.42	(N/A)	(N/A)	578.42	1.84	0.14
MH-5849	579.44	(N/A)	(N/A)	(N/A)	577.69	0.01	0.01
MH-5417	579.45	(N/A)	(N/A)	(N/A)	578.08	0.01	0.01
MH-5676	579.46	578.51	577.06	(N/A)	577.06	0.45	0.07
MH-5970	579.48	577.09	(N/A)	(N/A)	577.09	0.05	0.03
MH-4545	579.48	578.27	(N/A)	(N/A)	578.27	0.07	0.04
MH-6230	579.5	578.55	(N/A)	(N/A)	578.55	0.18	0.04
MH-6255	579.51	576.3	(N/A)	(N/A)	576.3	0.21	0.04
MH-5511	579.52	(N/A)	(N/A)	(N/A)	578.22	0.01	0.01
MH-2641	579.55	578.59	(N/A)	(N/A)	578.36	0.22	0.05
MH-6583	579.57	(N/A)	(N/A)	(N/A)	578.62	0.03	0.02
MH-5479	579.59	577.7	578.64	(N/A)	577.7	1.94	0.16
MH-2974	579.6	578.65	(N/A)	(N/A)	578.46	0.09	0.03
MH-3966	579.62	578.67	(N/A)	(N/A)	578.67	0.06	0.03
MH-620	579.65	577.26	578.65	(N/A)	577.26	1.61	0.14

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-619	579.66	577.38	578.68	(N/A)	577.28	1.55	0.14
MH-68	579.67	578.26	(N/A)	(N/A)	578.26	0.03	0.02
MH-67	579.67	578.72	578.26	(N/A)	578.26	0.03	0.02
MH-5579	579.7	578.37	(N/A)	(N/A)	578.37	4.48	0.16
MH-4954	579.71	578.74	(N/A)	(N/A)	578.74	0.11	0.04
MH-2502	579.73	578.3	(N/A)	(N/A)	578.3	0.2	0.04
MH-4662	579.75	578.78	(N/A)	(N/A)	578.78	0.08	0.04
MH-4661	579.75	(N/A)	(N/A)	(N/A)	578.8	0.05	0.03
MH-6078	579.77	(N/A)	(N/A)	(N/A)	577.84	0.02	0.01
MH-2230	579.83	(N/A)	(N/A)	(N/A)	578.88	0.03	0.02
MH-6504	579.84	578.34	(N/A)	(N/A)	578.34	0.07	0.03
MH-5129	579.84	578.44	(N/A)	(N/A)	577.56	20.62	0.32
MH-6049	579.89	(N/A)	(N/A)	(N/A)	578.94	0.02	0.02
MH-5594	579.89	578.33	(N/A)	(N/A)	578.33	0.07	0.03
MH-6229	579.9	578.11	(N/A)	(N/A)	578.11	0.23	0.05
MH-5759	579.9	578.64	(N/A)	(N/A)	578.64	0.17	0.04
MH-5648	579.9	577.51	577.54	(N/A)	577.51	0.72	0.1
MH-4472	579.92	576.59	578.97	577.93	576.59	0.4	0.07
MH-393	579.93	(N/A)	(N/A)	(N/A)	578.98	0	0.01
MH-394	579.93	578.98	578.98	578.18	578.18	0.25	0.05
MH-550	579.94	576.52	(N/A)	(N/A)	576.52	0.4	0.07
MH-549	579.94	576.48	578.99	(N/A)	576.48	0.47	0.08
MH-5578	579.96	578.76	(N/A)	(N/A)	578.76	4.45	0.16
MH-3508	579.96	578.56	579.01	(N/A)	578.56	20.61	0.32
MH-1174	579.98	578.86	(N/A)	(N/A)	578.86	0.03	0.03
MH-4	580	578.96	(N/A)	(N/A)	578.96	0.54	0.07
MH-5886	580.02	(N/A)	(N/A)	(N/A)	579.07	0.05	0.03
MH-4607	580.03	579.08	(N/A)	(N/A)	578.65	0.08	0.03
MH-4502	580.05	(N/A)	(N/A)	(N/A)	579.1	0.01	0.01
MH-3242	580.05	578.96	(N/A)	(N/A)	578.96	0.02	0.01
MH-5368	580.07	579.12	(N/A)	(N/A)	579.12	0.12	0.03
MH-2606	580.08	579.13	(N/A)	(N/A)	578.84	0.08	0.03
MH-5634	580.08	578.44	(N/A)	(N/A)	578.44	0.04	0.03
MH-3864	580.09	579.14	(N/A)	(N/A)	579.14	0.03	0.02
MH-5929	580.09	(N/A)	(N/A)	(N/A)	579.14	0.01	0.02
MH-1175	580.1	578.86	(N/A)	(N/A)	578.86	0.04	0.03
MH-4539	580.1	(N/A)	(N/A)	(N/A)	579.15	0.02	0.02
MH-6597	580.11	(N/A)	(N/A)	(N/A)	579.16	0.07	0.04
MH-1693	580.15	579.12	(N/A)	(N/A)	579.12	0.03	0.02
MH-167	580.15	579.11	(N/A)	(N/A)	579.11	0.03	0.02
MH-3788	580.18	578.99	579.23	579.2	578.97	0.82	0.09
MH-3177	580.18	579.23	(N/A)	(N/A)	579.23	0.02	0.01
MH-4413	580.21	(N/A)	(N/A)	(N/A)	579.26	0.02	0.02
MH-4280	580.22	577.76	579.05	(N/A)	577.76	1.81	0.16
MH-4717	580.23	(N/A)	(N/A)	(N/A)	579.28	0.05	0.02
MH-6010	580.23	576.4	575.66	(N/A)	575.01	29.98	0.46
MH-5208	580.24	(N/A)	(N/A)	(N/A)	579.29	0.04	0.02
MH-5215	580.25	(N/A)	(N/A)	(N/A)	579.3	0.03	0.02

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-3176	580.26	(N/A)	(N/A)	(N/A)	579.31	0.01	0.01
MH-3025	580.29	578.84	(N/A)	(N/A)	578.84	0.05	0.03
MH-1913	580.29	579.34	(N/A)	(N/A)	579.27	0.07	0.03
MH-891	580.3	579.07	(N/A)	(N/A)	579.07	0.01	0.01
MH-5369	580.31	579.36	(N/A)	(N/A)	579.36	0.09	0.03
MH-6430	580.33	(N/A)	(N/A)	(N/A)	579.18	0.07	0.03
MH-2906	580.34	579.39	(N/A)	(N/A)	579.39	0.04	0.03
MH-6321	580.34	(N/A)	(N/A)	(N/A)	579.39	0.02	0.02
MH-4313	580.35	578.95	579.4	(N/A)	578.83	20.36	0.31
MH-6079	580.35	(N/A)	(N/A)	(N/A)	579.4	0.02	0.02
MH-6306	580.35	(N/A)	(N/A)	(N/A)	579.36	0.03	0.02
MH-753	580.36	579.36	(N/A)	(N/A)	579.21	0.24	0.05
MH-754	580.36	579.41	579.41	(N/A)	579.41	0.24	0.05
MH-457	580.38	579.31	579.43	(N/A)	579.31	0.76	0.08
MH-3393	580.41	(N/A)	(N/A)	(N/A)	579.46	0.02	0.02
MH-5191	580.41	(N/A)	(N/A)	(N/A)	579.46	0.02	0.02
MH-4279	580.41	577.79	579.32	(N/A)	577.79	1.75	0.16
MH-1234	580.43	579.48	(N/A)	(N/A)	579.44	0.07	0.02
MH-1699	580.44	579.09	(N/A)	(N/A)	579.09	0.18	0.04
MH-1295	580.47	578.82	(N/A)	(N/A)	578.82	0.05	0.04
MH-1700	580.47	579.02	(N/A)	(N/A)	579.02	0.2	0.04
MH-3331	580.48	579.46	(N/A)	(N/A)	578.7	1.68	0.12
MH-1909	580.48	579.36	579.53	(N/A)	579.33	0.58	0.08
MH-2905	580.48	579.53	(N/A)	(N/A)	579.53	0.03	0.02
MH-1760	580.5	578.72	579.23	(N/A)	578.72	0.19	0.04
MH-1296	580.5	578.82	579.55	(N/A)	578.82	0.2	0.04
MH-1759	580.51	578.8	(N/A)	(N/A)	578.8	0.16	0.04
MH-2215	580.51	579.44	(N/A)	(N/A)	579.44	0.03	0.03
MH-573	580.52	579.57	579.55	(N/A)	579.55	0.06	0.02
MH-3595	580.53	579.58	579.58	(N/A)	579.58	0.18	0.04
MH-703	580.56	578.88	578.88	579.61	578.88	0.15	0.04
MH-704	580.56	578.83	(N/A)	(N/A)	578.83	0.16	0.04
MH-6159	580.56	579.36	(N/A)	(N/A)	579.36	4.41	0.16
MH-1510	580.59	578.67	578.02	(N/A)	578.02	1.11	0.12
MH-4326	580.59	579.64	579.64	(N/A)	579.64	0.54	0.07
MH-6361	580.59	579.64	(N/A)	(N/A)	579.04	0.28	0.05
MH-5728	580.6	579.65	579.65	(N/A)	578.51	1.32	0.11
MH-1511	580.6	577.96	(N/A)	(N/A)	577.96	1.12	0.12
MH-4177	580.62	(N/A)	(N/A)	(N/A)	579.66	0	0.01
MH-6215	580.63	579.43	579.43	(N/A)	579.43	0.13	0.03
MH-5192	580.65	579.45	(N/A)	(N/A)	579.45	0.02	0.02
MH-4769	580.65	578.52	579.44	(N/A)	578.52	0.23	0.05
MH-3128	580.66	(N/A)	(N/A)	(N/A)	579.71	0	0.01
MH-4985	580.67	579.33	(N/A)	(N/A)	579.33	0.17	0.04
MH-4803	580.68	578.76	577.89	579.15	577.84	1.7	0.15
MH-3392	580.68	579.55	(N/A)	(N/A)	579.55	0.19	0.04
MH-6018	580.69	578.04	(N/A)	(N/A)	578.04	0.31	0.06
MH-3474	580.69	(N/A)	(N/A)	(N/A)	579.73	0.02	0.01

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-4802	580.7	579.32	(N/A)	(N/A)	579.32	0.21	0.04
MH-3818	580.7	579.75	579.75	(N/A)	579.75	0.54	0.07
MH-1034	580.71	579.76	(N/A)	(N/A)	579.66	0.06	0.02
MH-943	580.72	579.08	(N/A)	(N/A)	579.08	0.09	0.03
MH-3113	580.73	(N/A)	(N/A)	(N/A)	579.78	0.01	0.03
MH-289	580.73	579.09	579.32	(N/A)	579.09	0.08	0.04
MH-4097	580.76	579.81	579.81	(N/A)	579.66	0.14	0.04
MH-5351	580.76	577.78	(N/A)	(N/A)	577.78	0.66	0.08
MH-4671	580.77	(N/A)	(N/A)	(N/A)	579.82	0.06	0.04
MH-6009	580.77	576.45	577.1	(N/A)	576.45	29.72	0.45
MH-196	580.77	579.82	(N/A)	(N/A)	579.82	0.05	0.03
MH-195	580.77	579.82	579.82	(N/A)	579.82	0.05	0.02
MH-3330	580.78	579.64	(N/A)	(N/A)	579.64	1.65	0.12
MH-6220	580.79	579.84	579.2	(N/A)	579.2	0.2	0.04
MH-2074	580.79	578.07	579.84	(N/A)	578.07	0.9	0.11
MH-5482	580.81	579.86	(N/A)	(N/A)	579.86	0.08	0.03
MH-1681	580.82	579.87	(N/A)	(N/A)	579.83	0.16	0.04
MH-6424	580.82	(N/A)	(N/A)	(N/A)	579.87	0.01	0.01
MH-3391	580.82	579.71	(N/A)	(N/A)	579.71	0.15	0.04
MH-5356	580.84	(N/A)	(N/A)	(N/A)	579.89	0.02	0.02
MH-1277	580.85	579.9	579.9	(N/A)	579.9	0.13	0.03
MH-5432	580.85	579.9	(N/A)	(N/A)	579.29	0.87	0.09
MH-1276	580.86	579.91	(N/A)	(N/A)	579.91	0.06	0.03
MH-2073	580.87	578.09	(N/A)	(N/A)	578.09	0.87	0.1
MH-6581	580.87	579.77	(N/A)	(N/A)	579.77	0.07	0.03
MH-6688	580.88	576.53	(N/A)	(N/A)	576.53	29.6	0.47
MH-2330	580.89	(N/A)	(N/A)	(N/A)	579.94	0	0.01
MH-1680	580.91	579.96	(N/A)	(N/A)	579.95	0.15	0.04
MH-872	580.92	579.89	579.76	(N/A)	579.76	0.23	0.05
MH-204	580.92	579.87	(N/A)	(N/A)	579.87	0.48	0.07
MH-203	580.92	579.97	579.97	(N/A)	579.97	0.48	0.07
MH-871	580.93	579.92	(N/A)	(N/A)	579.92	0.22	0.05
MH-5500	580.93	579.98	(N/A)	(N/A)	579.98	0.05	0.03
MH-5057	580.93	579.98	(N/A)	(N/A)	579.98	0.05	0.03
MH-5114	580.94	(N/A)	(N/A)	(N/A)	579.94	0.04	0.02
MH-6687	580.95	(N/A)	(N/A)	(N/A)	580	0.04	0.02
MH-4215	580.95	579.96	(N/A)	(N/A)	578.28	0.48	0.07
MH-5481	580.95	(N/A)	(N/A)	(N/A)	580	0.05	0.03
MH-5413	580.96	579.72	(N/A)	(N/A)	579.72	0.13	0.04
MH-2426	580.97	578.11	580.02	(N/A)	578.11	0.87	0.1
MH-1687	580.97	580.02	(N/A)	(N/A)	580.02	0.02	0.02
MH-3100	580.97	(N/A)	(N/A)	(N/A)	580.02	0.02	0.02
MH-1519	580.97	580.02	580.02	(N/A)	580.02	0.27	0.05
MH-3810	580.98	579.79	(N/A)	(N/A)	579.79	0.08	0.04
MH-2173	580.99	(N/A)	(N/A)	(N/A)	580.04	0	0.03
MH-983	580.99	579.97	(N/A)	(N/A)	579.88	0.04	0.02
MH-3605	580.99	579.04	(N/A)	(N/A)	579.04	0.22	0.05
MH-6161	581	578.98	580.05	(N/A)	578.98	0.3	0.05

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5570	581	580.05	(N/A)	(N/A)	580.05	0.09	0.03
MH-235	581	580.05	579.91	580.05	579.91	2.44	0.17
MH-1728	581	577.27	579.9	579.76	577.02	3.53	0.18
MH-3101	581	580	(N/A)	(N/A)	580	0.03	0.02
MH-236	581	(N/A)	(N/A)	(N/A)	580.05	0	0.03
MH-2291	581	579.93	(N/A)	(N/A)	579.93	1.47	0.16
MH-5221	581	579.84	(N/A)	(N/A)	579.84	0.61	0.09
MH-6	581	579.93	580.05	579.44	579.44	26.02	0.44
MH-3464	581	579.98	577.46	(N/A)	577.46	0.46	0.07
MH-5	581	(N/A)	(N/A)	(N/A)	580.05	0	0
MH-3465	581	577.4	(N/A)	(N/A)	577.4	0.47	0.08
MH-2455	581	577.01	579.4	(N/A)	576.61	29.56	0.48
MH-641	581.01	580.06	579.97	(N/A)	579.97	0.04	0.03
MH-5016	581.02	580.06	(N/A)	(N/A)	580.06	0.04	0.03
MH-5036	581.02	580.07	(N/A)	(N/A)	579.9	0.2	0.04
MH-4214	581.02	(N/A)	(N/A)	(N/A)	580.07	0.31	0.06
MH-1000	581.03	579.33	(N/A)	(N/A)	579.33	0.06	0.04
MH-5134	581.04	578.32	(N/A)	(N/A)	578.32	0.26	0.05
MH-3564	581.04	(N/A)	(N/A)	(N/A)	580.09	0	0.02
MH-2197	581.04	580.09	(N/A)	(N/A)	580.09	0.03	0.02
MH-4901	581.05	(N/A)	(N/A)	(N/A)	580.1	0.02	0.02
MH-23	581.05	580.1	580.04	(N/A)	580	0.11	0.03
MH-24	581.05	580.04	(N/A)	(N/A)	580.04	0.1	0.03
MH-96	581.05	580.1	(N/A)	(N/A)	580.1	0.03	0.02
MH-95	581.06	580.11	580.06	(N/A)	580.06	0.14	0.04
MH-1801	581.06	578.97	(N/A)	(N/A)	578.97	0.36	0.06
MH-1686	581.06	580.11	(N/A)	(N/A)	580.11	0.02	0.01
MH-427	581.06	580.11	579.35	(N/A)	579.35	0.06	0.03
MH-5798	581.07	(N/A)	(N/A)	(N/A)	580.12	0.03	0.03
MH-1471	581.09	(N/A)	(N/A)	(N/A)	580.14	0	0
MH-758	581.1	579.95	(N/A)	(N/A)	579.95	0.22	0.05
MH-757	581.1	580.03	580.15	580.03	580.03	0.22	0.05
MH-3811	581.11	579.76	(N/A)	(N/A)	579.76	0.11	0.05
MH-1800	581.12	579.01	(N/A)	(N/A)	579.01	0.34	0.06
MH-3817	581.13	580.18	(N/A)	(N/A)	580.18	0.06	0.02
MH-10	581.14	578.2	580.19	580.06	578.16	0.82	0.1
MH-9	581.14	578.13	(N/A)	(N/A)	578.13	0.82	0.1
MH-3372	581.14	580.19	(N/A)	(N/A)	580.16	0.2	0.04
MH-3162	581.15	580.2	(N/A)	(N/A)	579.8	0.13	0.03
MH-5499	581.15	(N/A)	(N/A)	(N/A)	580.2	0.03	0.02
MH-3606	581.16	578.88	580.21	(N/A)	578.88	0.35	0.06
MH-2805	581.16	(N/A)	(N/A)	(N/A)	580.21	0	0.03
MH-6304	581.17	(N/A)	(N/A)	(N/A)	580.22	0.01	0.01
MH-5179	581.19	(N/A)	(N/A)	(N/A)	580.24	0.01	0.02
MH-3816	581.2	580.25	(N/A)	(N/A)	580.25	0.04	0.02
MH-2397	581.23	(N/A)	(N/A)	(N/A)	580.28	0	0.01
MH-919	581.24	580.29	580.07	580.29	580.07	0.09	0.04
MH-411	581.24	580.29	579.99	(N/A)	579.99	0.03	0.03

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-412	581.24	579.98	(N/A)	(N/A)	579.98	0.04	0.03
MH-5788	581.25	580.3	(N/A)	(N/A)	580.3	0.06	0.03
MH-920	581.25	580.3	(N/A)	(N/A)	580.3	0.07	0.04
MH-555	581.25	580.28	580.22	(N/A)	580.22	1.42	0.11
MH-556	581.25	580.3	(N/A)	(N/A)	580.23	1.25	0.13
MH-2949	581.25	577.55	(N/A)	(N/A)	577.55	0.42	0.07
MH-5911	581.28	(N/A)	(N/A)	(N/A)	580.3	0.02	0.01
MH-2948	581.29	577.61	(N/A)	(N/A)	577.61	0.41	0.07
MH-6412	581.3	580.1	(N/A)	(N/A)	580.1	4.36	0.16
MH-775	581.3	577.87	(N/A)	(N/A)	577.87	0.34	0.06
MH-776	581.31	580.36	577.72	(N/A)	577.72	0.4	0.07
MH-813	581.32	580.37	580.33	580.2	580.2	0.21	0.04
MH-812	581.32	580.35	(N/A)	(N/A)	580.35	0.02	0.02
MH-1142	581.32	580.37	(N/A)	(N/A)	580.37	0.05	0.03
MH-1854	581.33	(N/A)	(N/A)	(N/A)	580.38	0	0.01
MH-3485	581.33	580.38	(N/A)	(N/A)	580.31	0.04	0.02
MH-41	581.33	580.37	(N/A)	(N/A)	580.37	0.05	0.03
MH-42	581.33	578.26	580.36	(N/A)	578.26	0.78	0.11
MH-3577	581.33	580.38	(N/A)	(N/A)	580.38	0.03	0.02
MH-2414	581.33	580.38	(N/A)	(N/A)	580.32	0.02	0.01
MH-1793	581.34	578.79	(N/A)	(N/A)	578.79	0.36	0.06
MH-1750	581.35	578.27	(N/A)	(N/A)	578.27	0.73	0.1
MH-4669	581.36	580.41	580.41	(N/A)	580.33	0.23	0.05
MH-5862	581.39	580.44	(N/A)	(N/A)	579.22	0.1	0.03
MH-5930	581.4	(N/A)	(N/A)	(N/A)	580.45	0.02	0.01
MH-1606	581.4	578.75	580.45	(N/A)	578.75	0.42	0.07
MH-3787	581.4	580.45	(N/A)	(N/A)	580.45	0.07	0.03
MH-1198	581.4	580.43	(N/A)	(N/A)	580.43	0.19	0.04
MH-1605	581.43	580.48	(N/A)	(N/A)	580.48	0.05	0.03
MH-343	581.43	580.48	580.37	(N/A)	580.37	0.01	0.02
MH-2753	581.44	(N/A)	(N/A)	(N/A)	580.49	0.01	0.01
MH-1364	581.44	580.49	(N/A)	(N/A)	580.38	0.07	0.02
MH-3247	581.44	(N/A)	(N/A)	(N/A)	580.49	0.01	0.02
MH-497	581.45	580.5	580.5	(N/A)	580.5	0.18	0.04
MH-993	581.45	580.5	(N/A)	(N/A)	580.28	0.11	0.03
MH-1943	581.46	579.27	(N/A)	(N/A)	579.27	0.3	0.06
MH-3173	581.46	579.35	(N/A)	(N/A)	579.35	0.29	0.05
MH-1944	581.46	579.22	(N/A)	(N/A)	579.22	0.33	0.06
MH-3947	581.46	580.51	(N/A)	(N/A)	580.51	0.02	0.01
MH-6402	581.47	580.52	(N/A)	(N/A)	580.52	0.4	0.07
MH-2519	581.48	578.7	(N/A)	(N/A)	578.7	0.43	0.07
MH-5814	581.48	(N/A)	(N/A)	(N/A)	580.53	0.01	0.01
MH-3500	581.48	579.46	(N/A)	(N/A)	579.46	0.27	0.05
MH-2315	581.48	580.53	(N/A)	(N/A)	580.51	0.01	0.01
MH-3576	581.49	580.54	(N/A)	(N/A)	580.54	0.02	0.01
MH-992	581.49	580.54	580.54	(N/A)	580.54	0.1	0.04
MH-4157	581.5	579.59	(N/A)	(N/A)	579.59	0.25	0.05
MH-1365	581.5	580.55	580.55	(N/A)	580.55	0.07	0.02

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5754	581.5	580.55	(N/A)	(N/A)	580.55	0.07	0.03
MH-4763	581.51	580.56	(N/A)	(N/A)	580.56	0.05	0.02
MH-4622	581.52	580.57	(N/A)	(N/A)	580.57	0.04	0.02
MH-727	581.54	580.36	(N/A)	(N/A)	580.36	0.02	0.02
MH-1969	581.55	578.65	580.6	(N/A)	578.65	0.48	0.08
MH-6029	581.56	580.61	580.61	(N/A)	579.9	1.17	0.11
MH-4327	581.56	580.61	(N/A)	(N/A)	579.9	0.22	0.05
MH-4203	581.56	(N/A)	(N/A)	(N/A)	580.58	0.01	0.01
MH-3351	581.57	580.62	(N/A)	(N/A)	580.37	1.23	0.11
MH-176	581.57	580.61	(N/A)	(N/A)	580.24	0.03	0.02
MH-175	581.57	580.62	580.62	(N/A)	580.62	0.02	0.02
MH-2283	581.57	(N/A)	(N/A)	(N/A)	580.62	0	0
MH-4858	581.58	580.53	580.18	(N/A)	579.91	20.2	0.31
MH-4788	581.58	579.78	(N/A)	(N/A)	579.78	0.22	0.05
MH-4253	581.59	580.07	580.34	(N/A)	580	1.06	0.12
MH-4621	581.6	(N/A)	(N/A)	(N/A)	580.65	0.02	0.02
MH-3468	581.6	580.65	(N/A)	(N/A)	580.65	0.06	0.02
MH-5794	581.61	580.66	(N/A)	(N/A)	580.66	0.04	0.02
MH-5771	581.61	578.37	(N/A)	(N/A)	578.37	0.71	0.1
MH-2439	581.61	580.66	(N/A)	(N/A)	580.66	0.04	0.02
MH-5787	581.62	(N/A)	(N/A)	(N/A)	580.67	0.03	0.02
MH-1251	581.62	578.62	(N/A)	(N/A)	578.62	0.48	0.08
MH-3748	581.62	580.67	(N/A)	(N/A)	580.64	0.02	0.01
MH-3161	581.62	580.67	(N/A)	(N/A)	580.38	0.11	0.03
MH-2314	581.63	580.68	(N/A)	(N/A)	580.66	0.01	0.01
MH-2898	581.65	580.7	580.45	(N/A)	580.28	4.31	0.16
MH-1252	581.65	580.7	578.6	(N/A)	578.6	0.51	0.08
MH-3248	581.66	580.47	(N/A)	(N/A)	580.47	0.02	0.03
MH-3926	581.66	580.71	(N/A)	(N/A)	580.41	0.17	0.04
MH-894	581.69	580.59	(N/A)	(N/A)	580.59	0.18	0.04
MH-865	581.69	580.74	(N/A)	(N/A)	580.66	0.05	0.02
MH-864	581.7	580.75	580.75	(N/A)	580.75	0.05	0.03
MH-893	581.7	580.75	580.68	(N/A)	580.68	0.18	0.04
MH-1733	581.7	578.58	(N/A)	(N/A)	578.58	0.52	0.08
MH-2752	581.72	580.52	(N/A)	(N/A)	580.52	4.21	0.16
MH-3715	581.72	580.77	(N/A)	(N/A)	580.77	0.04	0.02
MH-5431	581.73	580.78	(N/A)	(N/A)	580.3	0.74	0.09
MH-4604	581.73	(N/A)	(N/A)	(N/A)	580.78	0.01	0.01
MH-2380	581.73	(N/A)	(N/A)	(N/A)	580.75	0.01	0.01
MH-2525	581.74	580.79	(N/A)	(N/A)	580.79	0.03	0.02
MH-4762	581.75	(N/A)	(N/A)	(N/A)	580.8	0.03	0.02
MH-4216	581.77	(N/A)	(N/A)	(N/A)	580.79	0.01	0.01
MH-4191	581.77	580.81	(N/A)	(N/A)	580.81	0.13	0.04
MH-2830	581.78	578.54	580.77	580.83	578.51	0.69	0.09
MH-5477	581.78	(N/A)	(N/A)	(N/A)	580.83	0.02	0.01
MH-3467	581.79	580.84	(N/A)	(N/A)	580.84	0.05	0.02
MH-2628	581.79	(N/A)	(N/A)	(N/A)	580.83	0	0.01
MH-5737	581.79	580.18	(N/A)	(N/A)	580.18	0.52	0.08

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-2524	581.81	580.86	(N/A)	(N/A)	580.86	0.03	0.02
MH-3298	581.82	580.1	(N/A)	(N/A)	580.1	0.2	0.04
MH-4823	581.83	(N/A)	(N/A)	(N/A)	580.79	0.01	0.01
MH-34	581.83	580.88	580.88	(N/A)	580.86	0.01	0.01
MH-3264	581.84	580.89	(N/A)	(N/A)	580.89	0.03	0.02
MH-5291	581.86	(N/A)	(N/A)	(N/A)	580.91	0.01	0.01
MH-3747	581.87	(N/A)	(N/A)	(N/A)	580.89	0.01	0.01
MH-3860	581.88	580.93	(N/A)	(N/A)	580.76	0.09	0.03
MH-5311	581.88	578.35	577.9	(N/A)	577.87	0.62	0.09
MH-3043	581.89	580.94	(N/A)	(N/A)	580.94	0.02	0.02
MH-4057	581.89	580.94	(N/A)	(N/A)	580.94	0.03	0.02
MH-3471	581.91	(N/A)	(N/A)	(N/A)	580.86	0	0
MH-2302	581.92	580.97	(N/A)	(N/A)	580.97	0.13	0.03
MH-4098	581.92	580.97	580.72	(N/A)	580.72	4.21	0.16
MH-6028	581.93	580.98	(N/A)	(N/A)	580.98	0.09	0.03
MH-4534	581.93	(N/A)	(N/A)	(N/A)	580.98	0.01	0.01
MH-3714	581.95	580.38	581	580.45	580.38	1.01	0.11
MH-4197	581.95	581	581	(N/A)	581	0.04	0.02
MH-5009	581.95	581	580.51	(N/A)	580.51	20.05	0.31
MH-6582	581.96	(N/A)	(N/A)	(N/A)	581.01	0.03	0.02
MH-2391	581.96	581.01	(N/A)	(N/A)	580.7	0.12	0.03
MH-3263	581.97	581.02	(N/A)	(N/A)	581.02	0.03	0.01
MH-2222	581.97	(N/A)	(N/A)	(N/A)	580.99	0	0.01
MH-1634	581.98	581.03	(N/A)	(N/A)	580.79	1.21	0.11
MH-2189	581.98	581.03	(N/A)	(N/A)	581.03	0.09	0.03
MH-2022	581.98	580.23	(N/A)	(N/A)	580.23	0.18	0.04
MH-3507	582	581.04	(N/A)	(N/A)	581.04	0.04	0.02
MH-3042	582	581.05	(N/A)	(N/A)	581.05	0.02	0.01
MH-4190	582.01	581.06	(N/A)	(N/A)	581.06	0.12	0.03
MH-3434	582.05	581.1	(N/A)	(N/A)	581.1	0.03	0.02
MH-2545	582.06	581.11	(N/A)	(N/A)	581.11	0.09	0.05
MH-2390	582.07	(N/A)	(N/A)	(N/A)	581.12	0.04	0.02
MH-2021	582.08	580.31	(N/A)	(N/A)	580.31	0.17	0.04
MH-6511	582.08	(N/A)	(N/A)	(N/A)	580.74	0.04	0.02
MH-5217	582.09	(N/A)	(N/A)	(N/A)	581.1	0.01	0.01
MH-2188	582.1	581.15	(N/A)	(N/A)	581.15	0.07	0.03
MH-3565	582.1	(N/A)	(N/A)	(N/A)	581.15	0.03	0.03
MH-1990	582.11	581.16	(N/A)	(N/A)	581.03	0.01	0.01
MH-5738	582.13	580.09	(N/A)	(N/A)	580.07	0.58	0.08
MH-2290	582.14	(N/A)	(N/A)	(N/A)	581.19	0.01	0.01
MH-3713	582.15	581.2	(N/A)	(N/A)	581.2	0.04	0.02
MH-1633	582.16	581.21	(N/A)	(N/A)	581.16	1.19	0.11
MH-3923	582.16	(N/A)	(N/A)	(N/A)	581.21	0.05	0.03
MH-4776	582.16	580.96	(N/A)	(N/A)	580.96	4.06	0.15
MH-3927	582.17	581.22	(N/A)	(N/A)	580.94	0.15	0.04
MH-5945	582.17	(N/A)	(N/A)	(N/A)	581.04	0.01	0.01
MH-3186	582.24	581.29	(N/A)	(N/A)	581.23	0.02	0.01
MH-4705	582.25	(N/A)	(N/A)	(N/A)	581.3	0.02	0.01

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-246	582.26	581.1	581.1	(N/A)	581.1	0.31	0.05
MH-245	582.26	581.31	(N/A)	(N/A)	581.31	0.21	0.04
MH-6339	582.26	(N/A)	(N/A)	(N/A)	581.31	0.02	0.01
MH-3833	582.28	580.59	580.52	(N/A)	580.52	0.94	0.09
MH-3327	582.31	581.36	(N/A)	(N/A)	581.3	0.02	0.01
MH-6693	582.32	580.52	(N/A)	(N/A)	580.52	0.16	0.04
MH-5216	582.32	(N/A)	(N/A)	(N/A)	581.37	0.01	0.01
MH-2959	582.33	(N/A)	(N/A)	(N/A)	580.91	0.03	0.02
MH-1989	582.34	(N/A)	(N/A)	(N/A)	581.27	0.01	0.01
MH-3566	582.35	581.13	(N/A)	(N/A)	581.13	0.04	0.03
MH-2467	582.37	581.42	(N/A)	(N/A)	581.32	0.11	0.03
MH-829	582.37	581.19	(N/A)	(N/A)	581.19	0.01	0.01
MH-3786	582.38	(N/A)	(N/A)	(N/A)	581.34	0.07	0.03
MH-6146	582.39	(N/A)	(N/A)	(N/A)	581.44	0.06	0.03
MH-828	582.39	581.44	581.18	(N/A)	581.18	0.02	0.01
MH-3863	582.4	(N/A)	(N/A)	(N/A)	581.43	0.03	0.02
MH-3785	582.41	581.46	(N/A)	(N/A)	581.39	0.05	0.02
MH-5469	582.42	581.47	(N/A)	(N/A)	580.98	0.09	0.03
MH-4297	582.42	581.47	(N/A)	(N/A)	581.47	0.12	0.03
MH-1866	582.43	580.7	(N/A)	(N/A)	580.7	0.15	0.04
MH-287	582.43	581.48	(N/A)	(N/A)	580.41	0.21	0.04
MH-3114	582.43	581.23	(N/A)	(N/A)	581.23	4.05	0.15
MH-3773	582.45	581.19	(N/A)	(N/A)	581.19	0.1	0.05
MH-3852	582.45	581.5	(N/A)	(N/A)	581.03	0.09	0.03
MH-292	582.45	581.14	580.95	(N/A)	580.95	0.17	0.04
MH-291	582.45	581.21	(N/A)	(N/A)	581.21	0.16	0.04
MH-5979	582.47	581.52	(N/A)	(N/A)	581.52	0.06	0.02
MH-1873	582.49	581.17	(N/A)	(N/A)	581.17	0.11	0.05
MH-1867	582.5	580.78	(N/A)	(N/A)	580.78	0.14	0.04
MH-2389	582.51	581.56	(N/A)	(N/A)	580.88	0.2	0.04
MH-1872	582.51	581.16	(N/A)	(N/A)	581.16	0.12	0.03
MH-5324	582.52	581.57	(N/A)	(N/A)	581.57	0.08	0.03
MH-5724	582.53	(N/A)	(N/A)	(N/A)	581.46	0.01	0.01
MH-5318	582.54	581.59	(N/A)	(N/A)	581.59	0.02	0.02
MH-1578	582.55	581.04	(N/A)	(N/A)	581.04	0.12	0.03
MH-2861	582.56	581.61	(N/A)	(N/A)	581.55	0.01	0.01
MH-1513	582.58	581.38	581.63	(N/A)	581.38	4.03	0.15
MH-1577	582.59	580.97	(N/A)	(N/A)	580.97	0.13	0.03
MH-2797	582.59	580.56	581.11	(N/A)	580.56	0.92	0.1
MH-1512	582.6	581.4	(N/A)	(N/A)	581.4	3.64	0.15
MH-1903	582.6	580.87	(N/A)	(N/A)	580.87	0.14	0.04
MH-2466	582.6	581.65	(N/A)	(N/A)	581.56	0.1	0.03
MH-4476	582.61	(N/A)	(N/A)	(N/A)	581.57	0.01	0.01
MH-4231	582.66	581.71	(N/A)	(N/A)	581.32	0.14	0.04
MH-1117	582.68	578.43	(N/A)	(N/A)	578.41	0.54	0.08
MH-3784	582.7	581.75	(N/A)	(N/A)	581.68	0.03	0.02
MH-4720	582.7	581.75	(N/A)	(N/A)	581.01	1.06	0.1
MH-6150	582.71	(N/A)	(N/A)	(N/A)	581.76	0.03	0.03

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6465	582.73	(N/A)	(N/A)	(N/A)	580.93	0.03	0.02
MH-1116	582.76	578.49	578.91	(N/A)	578.49	0.5	0.08
MH-5471	582.76	581.46	(N/A)	(N/A)	581.46	3.63	0.18
MH-2860	582.78	(N/A)	(N/A)	(N/A)	581.77	0.01	0.01
MH-2796	582.79	580.59	(N/A)	(N/A)	580.59	0.87	0.1
MH-5177	582.8	581.8	(N/A)	(N/A)	581.5	0.2	0.04
MH-2388	582.83	(N/A)	(N/A)	(N/A)	581.69	0.16	0.04
MH-5838	582.84	581.89	(N/A)	(N/A)	581.69	0.48	0.07
MH-4456	582.88	581.93	(N/A)	(N/A)	581.43	0.01	0.01
MH-5358	582.9	(N/A)	(N/A)	(N/A)	580.99	0.18	0.04
MH-4000	582.92	581.97	(N/A)	(N/A)	581.89	0.09	0.03
MH-5262	582.93	581.98	(N/A)	(N/A)	581.57	1.14	0.11
MH-2493	582.96	582.01	581.56	(N/A)	581.56	0.04	0.03
MH-4989	582.96	(N/A)	(N/A)	(N/A)	582.01	0.01	0.01
MH-5478	583.01	581.51	582.06	(N/A)	581.51	3.61	0.2
MH-4099	583.02	(N/A)	(N/A)	(N/A)	581.99	0.02	0.01
MH-3851	583.03	582.08	(N/A)	(N/A)	581.73	0.08	0.03
MH-4797	583.04	(N/A)	(N/A)	(N/A)	581.75	0.01	0.01
MH-404	583.04	581.72	581.34	(N/A)	581.34	0.16	0.04
MH-403	583.05	581.81	582.1	(N/A)	581.81	0.15	0.04
MH-2516	583.05	(N/A)	(N/A)	(N/A)	582.1	0.11	0.05
MH-5560	583.05	582.1	(N/A)	(N/A)	582.04	0.04	0.02
MH-3421	583.06	582.11	(N/A)	(N/A)	582.11	0.33	0.06
MH-2129	583.12	581.46	(N/A)	(N/A)	581.46	0.26	0.05
MH-6641	583.15	(N/A)	(N/A)	(N/A)	582.2	0.2	0.04
MH-2492	583.15	(N/A)	(N/A)	(N/A)	582.14	0.01	0.01
MH-4923	583.2	581.21	579.02	(N/A)	579.02	0.44	0.07
MH-2247	583.22	580.65	(N/A)	(N/A)	580.65	0.86	0.1
MH-2517	583.23	582.09	(N/A)	(N/A)	582.09	0.15	0.04
MH-4956	583.25	581.97	(N/A)	(N/A)	581.97	0.38	0.06
MH-2128	583.26	581.53	581.98	(N/A)	581.53	0.24	0.05
MH-6053	583.3	(N/A)	(N/A)	(N/A)	582.14	0.01	0.01
MH-4230	583.34	582.39	(N/A)	(N/A)	581.96	0.12	0.03
MH-2246	583.35	582.4	580.74	(N/A)	580.68	0.83	0.1
MH-2029	583.38	581.35	(N/A)	(N/A)	581.35	0.27	0.05
MH-3378	583.38	(N/A)	(N/A)	(N/A)	582.43	0.03	0.03
MH-1669	583.39	(N/A)	(N/A)	(N/A)	582.44	0.01	0.02
MH-4457	583.39	(N/A)	(N/A)	(N/A)	582.2	0.01	0.01
MH-6376	583.39	(N/A)	(N/A)	(N/A)	581.7	0.07	0.02
MH-6409	583.4	(N/A)	(N/A)	(N/A)	581.22	0.09	0.03
MH-4654	583.42	582.47	(N/A)	(N/A)	582.47	0.02	0.01
MH-3120	583.43	582.45	(N/A)	(N/A)	582.45	0.14	0.04
MH-2030	583.45	581.95	581.29	(N/A)	580.74	24.94	0.33
MH-5023	583.45	582.5	(N/A)	(N/A)	582.3	0.08	0.03
MH-5837	583.47	582.52	(N/A)	(N/A)	582.36	0.4	0.06
MH-2026	583.49	582.23	(N/A)	(N/A)	582.23	0.19	0.04
MH-2779	583.49	582.54	(N/A)	(N/A)	582.54	0.55	0.07
MH-5871	583.49	582.54	(N/A)	(N/A)	581.22	0.97	0.1

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5885	583.49	582.54	(N/A)	(N/A)	581.95	0.21	0.04
MH-1670	583.51	582.43	(N/A)	(N/A)	582.43	0.02	0.02
MH-4032	583.54	(N/A)	(N/A)	(N/A)	582.59	0.02	0.02
MH-3763	583.56	582.61	582.61	581.97	581.97	0.14	0.04
MH-4332	583.57	581.95	(N/A)	(N/A)	581.95	0.24	0.05
MH-4653	583.6	582.65	(N/A)	(N/A)	582.26	0.07	0.02
MH-2083	583.61	582.15	(N/A)	(N/A)	582.15	0.2	0.04
MH-2025	583.62	582.3	582.67	(N/A)	582.3	0.19	0.04
MH-4436	583.63	581.38	581.53	(N/A)	581.38	0.32	0.06
MH-4011	583.65	(N/A)	(N/A)	(N/A)	582.7	0.01	0.02
MH-2957	583.66	(N/A)	(N/A)	(N/A)	581.94	0.02	0.01
MH-3420	583.66	582.71	(N/A)	(N/A)	582.31	0.31	0.05
MH-2147	583.68	582.42	(N/A)	(N/A)	582.42	0.03	0.03
MH-320	583.68	(N/A)	(N/A)	(N/A)	582.73	0.02	0.02
MH-319	583.68	582.69	582.73	(N/A)	582.66	0.53	0.08
MH-5642	583.7	582.75	(N/A)	(N/A)	581.21	0.62	0.08
MH-5190	583.71	582.18	(N/A)	(N/A)	582.18	0.21	0.04
MH-373	583.74	582.69	(N/A)	(N/A)	582.69	0.01	0.02
MH-374	583.74	582.42	582.68	582.79	582.42	0.07	0.04
MH-4333	583.74	582.54	581.8	(N/A)	581.55	3.26	0.2
MH-2124	583.74	580.37	(N/A)	(N/A)	580.37	1.45	0.1
MH-4721	583.75	582.2	582.8	(N/A)	582.06	0.99	0.1
MH-4562	583.76	582.81	(N/A)	(N/A)	582.81	0.04	0.03
MH-5228	583.78	(N/A)	(N/A)	(N/A)	582.75	0.01	0.01
MH-4594	583.78	580.88	(N/A)	(N/A)	580.88	0.28	0.05
MH-5731	583.78	582.83	(N/A)	(N/A)	582.83	0.49	0.08
MH-1547	583.82	582.72	(N/A)	(N/A)	582.72	0.13	0.03
MH-4251	583.83	582.58	(N/A)	(N/A)	582.58	0.15	0.04
MH-5577	583.83	(N/A)	(N/A)	(N/A)	582.51	0.01	0.01
MH-4343	583.84	(N/A)	(N/A)	(N/A)	582.89	0.02	0.01
MH-4730	583.88	582.47	(N/A)	(N/A)	582.47	0.18	0.04
MH-2739	583.91	(N/A)	(N/A)	(N/A)	582.96	0	0.01
MH-5074	583.91	582.96	(N/A)	(N/A)	582.96	0.91	0.1
MH-1810	583.92	582.57	582.97	(N/A)	582.57	0.06	0.04
MH-4179	583.92	582.97	581.7	(N/A)	581.7	0.21	0.04
MH-4477	583.92	582.97	(N/A)	(N/A)	582.75	0.06	0.02
MH-4563	583.92	582.79	(N/A)	(N/A)	582.79	0.07	0.04
MH-5942	583.95	(N/A)	(N/A)	(N/A)	582.07	0.01	0.01
MH-4984	583.95	583	(N/A)	(N/A)	582.86	0.54	0.07
MH-1546	583.96	582.79	(N/A)	(N/A)	582.79	0.12	0.03
MH-2123	583.97	580.72	(N/A)	(N/A)	580.66	1.42	0.1
MH-4075	584	(N/A)	(N/A)	(N/A)	583.05	0.01	0.02
MH-4250	584.01	582.81	(N/A)	(N/A)	582.81	0.13	0.03
MH-4729	584.02	582.72	(N/A)	(N/A)	582.72	0.14	0.04
MH-4829	584.04	582.75	(N/A)	(N/A)	582.75	0.11	0.05
MH-1811	584.06	582.38	582.56	(N/A)	582.38	0.1	0.05
MH-2738	584.07	582.94	(N/A)	(N/A)	582.94	0.01	0.02
MH-4241	584.07	583.12	(N/A)	(N/A)	582.83	0.07	0.02

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5732	584.09	(N/A)	(N/A)	(N/A)	583.11	0.05	0.02
MH-4076	584.11	582.4	583.02	(N/A)	582.4	0.09	0.04
MH-6195	584.11	583.16	(N/A)	(N/A)	583.16	0.41	0.06
MH-3728	584.11	583.16	(N/A)	(N/A)	583.16	0.05	0.03
MH-1707	584.11	582.89	(N/A)	(N/A)	582.89	0.12	0.03
MH-6039	584.12	583.17	(N/A)	(N/A)	582.52	1.08	0.1
MH-5170	584.14	582.94	583.19	(N/A)	582.74	15.74	0.4
MH-2958	584.17	(N/A)	(N/A)	(N/A)	583.19	0.14	0.04
MH-4178	584.17	583.22	(N/A)	(N/A)	583.22	0.14	0.04
MH-4101	584.18	(N/A)	(N/A)	(N/A)	582.83	0.11	0.03
MH-3204	584.19	583.24	(N/A)	(N/A)	582.66	0.11	0.03
MH-1899	584.21	582.37	583.26	(N/A)	582.37	0.11	0.05
MH-1706	584.22	583.27	582.9	(N/A)	582.9	0.12	0.05
MH-2261	584.23	580.78	(N/A)	(N/A)	580.78	1.38	0.14
MH-5220	584.23	(N/A)	(N/A)	(N/A)	582.96	0.01	0.01
MH-6592	584.24	(N/A)	(N/A)	(N/A)	581.53	0.03	0.02
MH-5898	584.25	(N/A)	(N/A)	(N/A)	583.3	0.02	0.01
MH-5466	584.27	583.32	(N/A)	(N/A)	583.05	0.32	0.05
MH-4438	584.27	583.08	(N/A)	(N/A)	583.08	0.12	0.03
MH-5692	584.27	583.2	582.56	(N/A)	582.56	19.55	0.31
MH-5640	584.34	(N/A)	(N/A)	(N/A)	583.24	0.02	0.01
MH-5073	584.34	583.39	(N/A)	(N/A)	583.39	0.81	0.1
MH-5214	584.35	581.09	(N/A)	(N/A)	581.09	0.26	0.05
MH-3837	584.4	(N/A)	(N/A)	(N/A)	583.45	0.05	0.03
MH-3495	584.43	583.48	582.92	(N/A)	582.92	0.08	0.04
MH-3832	584.45	583.5	(N/A)	(N/A)	583.37	0.06	0.02
MH-2260	584.47	580.83	(N/A)	(N/A)	580.83	1.33	0.14
MH-3838	584.48	583.43	582.37	(N/A)	582.37	0.15	0.04
MH-5626	584.49	583.54	(N/A)	(N/A)	583.54	0.03	0.02
MH-3537	584.5	583.55	583.55	(N/A)	583.38	0.53	0.07
MH-6807	584.5	583.52	(N/A)	(N/A)	583.52	1.04	0.1
MH-4535	584.53	583.58	(N/A)	(N/A)	583	0.3	0.05
MH-4328	584.58	582.35	583.63	(N/A)	582.35	0.14	0.04
MH-3390	584.59	583.64	583.64	(N/A)	583.53	0.04	0.02
MH-4043	584.59	583.11	(N/A)	(N/A)	583.11	0.1	0.05
MH-5937	584.61	(N/A)	(N/A)	(N/A)	583.66	0.08	0.03
MH-4741	584.64	583.69	(N/A)	(N/A)	583.54	0.26	0.05
MH-6203	584.65	(N/A)	(N/A)	(N/A)	583.7	0.03	0.03
MH-5465	584.67	(N/A)	(N/A)	(N/A)	583.66	0.01	0.01
MH-4681	584.74	(N/A)	(N/A)	(N/A)	583.78	0.06	0.02
MH-3203	584.76	583.81	(N/A)	(N/A)	583.42	0.1	0.03
MH-2557	584.79	580.88	(N/A)	(N/A)	580.88	1.26	0.14
MH-3777	584.79	583.84	(N/A)	(N/A)	583.77	0.05	0.02
MH-3536	584.79	583.84	583.84	(N/A)	583.75	0.47	0.07
MH-135	584.8	583.85	583.14	(N/A)	583.14	0.09	0.04
MH-5435	584.82	583.79	(N/A)	(N/A)	583.79	0.68	0.08
MH-3389	584.82	583.87	(N/A)	(N/A)	583.83	0.02	0.01
MH-5076	584.85	581.29	(N/A)	(N/A)	581.29	0.25	0.05

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-3831	584.88	(N/A)	(N/A)	(N/A)	583.72	0.05	0.02
MH-6422	584.91	583.96	(N/A)	(N/A)	583.9	1.23	0.13
MH-4035	584.92	(N/A)	(N/A)	(N/A)	583.88	0.01	0.01
MH-3328	584.92	(N/A)	(N/A)	(N/A)	583.97	0.02	0.02
MH-4421	584.96	584.01	(N/A)	(N/A)	583.29	0.05	0.02
MH-5229	584.97	(N/A)	(N/A)	(N/A)	584	0.01	0.01
MH-2633	584.97	584.02	(N/A)	(N/A)	583.97	0.04	0.02
MH-5086	584.99	(N/A)	(N/A)	(N/A)	583.97	0.01	0.01
MH-5691	585.02	583.52	583.47	(N/A)	583.47	3.74	0.17
MH-3329	585.02	583.95	(N/A)	(N/A)	583.95	0.03	0.03
MH-4100	585.03	584.08	(N/A)	(N/A)	583.98	0.35	0.06
MH-6100	585.03	584.08	(N/A)	(N/A)	584.08	0.88	0.1
MH-3660	585.04	584.09	(N/A)	(N/A)	583.72	0.25	0.05
MH-3014	585.05	582.05	584.1	(N/A)	582.05	0.21	0.04
MH-5372	585.05	584.06	584.1	(N/A)	583.19	0.8	0.09
MH-198	585.06	(N/A)	(N/A)	(N/A)	584.11	0.01	0.04
MH-197	585.06	584.1	584.11	584.1	584.1	0.1	0.04
MH-3724	585.06	583.93	(N/A)	(N/A)	583.93	0.05	0.03
MH-4960	585.12	583.9	(N/A)	(N/A)	583.9	0.07	0.04
MH-4158	585.15	584.2	(N/A)	(N/A)	584.09	0.35	0.06
MH-3650	585.15	584.2	(N/A)	(N/A)	584.1	0.11	0.03
MH-4459	585.17	584.22	(N/A)	(N/A)	584.11	0.04	0.02
MH-5176	585.21	(N/A)	(N/A)	(N/A)	584.26	0.02	0.02
MH-4404	585.21	(N/A)	(N/A)	(N/A)	584.14	0.01	0.01
MH-4375	585.24	584.29	(N/A)	(N/A)	584.29	0.07	0.03
MH-4136	585.25	584.3	(N/A)	(N/A)	584.3	0.03	0.02
MH-1395	585.26	581.52	(N/A)	(N/A)	581.52	0.24	0.05
MH-2210	585.26	584.31	583.84	583.88	583.34	2.98	0.13
MH-3013	585.28	584.19	(N/A)	(N/A)	584.19	0.06	0.02
MH-5449	585.29	(N/A)	(N/A)	(N/A)	584.34	0.02	0.02
MH-6025	585.3	581.03	580.97	(N/A)	580.97	1.17	0.13
MH-1396	585.33	581.48	(N/A)	(N/A)	581.48	0.24	0.05
MH-184	585.36	580.94	(N/A)	(N/A)	580.94	1.21	0.13
MH-2616	585.38	584.43	(N/A)	(N/A)	584.32	0.29	0.05
MH-3494	585.41	584.46	(N/A)	(N/A)	584.01	0.09	0.03
MH-2209	585.43	584.48	(N/A)	(N/A)	584.43	0.1	0.03
MH-3649	585.43	584.48	(N/A)	(N/A)	584.41	0.1	0.03
MH-2971	585.47	583.86	(N/A)	(N/A)	583.86	0.09	0.04
MH-5951	585.47	(N/A)	(N/A)	(N/A)	584.43	0.01	0.01
MH-3180	585.48	584.46	(N/A)	(N/A)	584.46	0.34	0.06
MH-4740	585.49	584.54	(N/A)	(N/A)	583.99	0.17	0.04
MH-3659	585.5	(N/A)	(N/A)	(N/A)	584.3	0.21	0.04
MH-5501	585.51	584.56	(N/A)	(N/A)	584.56	0.06	0.02
MH-3957	585.55	584.6	(N/A)	(N/A)	584.55	0.02	0.01
MH-2615	585.55	584.58	(N/A)	(N/A)	584.58	0.26	0.05
MH-611	585.57	583.61	581.88	(N/A)	581.88	0.22	0.04
MH-4868	585.59	(N/A)	(N/A)	(N/A)	584.53	0.04	0.02
MH-3644	585.6	584.65	(N/A)	(N/A)	583.93	0.27	0.05

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-4861	585.65	581.6	(N/A)	(N/A)	581.6	0.24	0.05
MH-6580	585.65	584.63	(N/A)	(N/A)	584.63	1.7	0.12
MH-5876	585.68	584.73	581.71	(N/A)	581.71	0.23	0.05
MH-3179	585.68	584.62	(N/A)	(N/A)	584.62	0.33	0.06
MH-5167	585.68	584.3	(N/A)	(N/A)	584.3	0.03	0.03
MH-6101	585.69	584.74	(N/A)	(N/A)	584.65	0.61	0.08
MH-3633	585.71	584.76	584.22	(N/A)	584.22	0.05	0.03
MH-4002	585.71	584.76	(N/A)	(N/A)	584.76	0.23	0.05
MH-4420	585.81	584.86	(N/A)	(N/A)	584.28	0.04	0.02
MH-3272	585.81	581.77	(N/A)	(N/A)	581.77	0.23	0.05
MH-4685	585.81	(N/A)	(N/A)	(N/A)	584.78	0.08	0.03
MH-3956	585.82	(N/A)	(N/A)	(N/A)	584.83	0.01	0.01
MH-4873	585.84	583.64	(N/A)	(N/A)	583.64	0.06	0.03
MH-5355	585.9	584.95	(N/A)	(N/A)	583.18	0.47	0.07
MH-5810	585.91	584.96	(N/A)	(N/A)	584.96	0.04	0.02
MH-5701	585.92	582.35	(N/A)	(N/A)	582.35	0.59	0.08
MH-6063	585.93	584.98	584.98	(N/A)	584.98	0.62	0.08
MH-5113	585.94	584.26	(N/A)	(N/A)	584.26	0.05	0.03
MH-3632	586	585.05	(N/A)	(N/A)	584.97	0.02	0.01
MH-4301	586.04	585.09	(N/A)	(N/A)	584.84	0.08	0.03
MH-3625	586.08	584.17	585	(N/A)	583.92	2.77	0.17
MH-5293	586.09	(N/A)	(N/A)	(N/A)	585.07	0.01	0.01
MH-3934	586.1	585.15	584.23	(N/A)	584.23	0.08	0.04
MH-4759	586.12	(N/A)	(N/A)	(N/A)	585.17	0.07	0.04
MH-4040	586.13	581.61	581.63	(N/A)	581.56	0.93	0.09
MH-3984	586.13	585.11	(N/A)	(N/A)	585.11	0.11	0.05
MH-3943	586.17	584.8	(N/A)	(N/A)	584.8	0.31	0.06
MH-4072	586.19	585.24	(N/A)	(N/A)	584.7	0.08	0.03
MH-2772	586.25	585.3	(N/A)	(N/A)	584.87	0.24	0.05
MH-6054	586.25	(N/A)	(N/A)	(N/A)	585.3	0.01	0.01
MH-4265	586.25	(N/A)	(N/A)	(N/A)	585.3	0	0.01
MH-3897	586.26	584.74	(N/A)	(N/A)	584.74	0.26	0.05
MH-4541	586.28	585.14	(N/A)	(N/A)	585.14	0.1	0.04
MH-3624	586.31	584.19	(N/A)	(N/A)	584.19	0.09	0.04
MH-5272	586.31	(N/A)	(N/A)	(N/A)	585.36	0.07	0.04
MH-6369	586.32	585.37	(N/A)	(N/A)	585.37	0.09	0.03
MH-6142	586.33	585.38	(N/A)	(N/A)	585.38	0.22	0.05
MH-2879	586.36	585.41	(N/A)	(N/A)	585.41	0.1	0.05
MH-4635	586.39	(N/A)	(N/A)	(N/A)	585.35	0.01	0.01
MH-5049	586.41	585.46	(N/A)	(N/A)	585.46	0.03	0.02
MH-3942	586.42	584.91	(N/A)	(N/A)	584.91	0.29	0.05
MH-5254	586.44	(N/A)	(N/A)	(N/A)	584.9	0.11	0.03
MH-2943	586.45	583.75	585.06	(N/A)	583.75	24.6	0.33
MH-4300	586.47	585.52	(N/A)	(N/A)	585.35	0.04	0.02
MH-2878	586.49	585.54	(N/A)	(N/A)	585.54	0.09	0.03
MH-3933	586.54	(N/A)	(N/A)	(N/A)	585.38	0.01	0.01
MH-4756	586.54	585.59	(N/A)	(N/A)	585.59	0.08	0.04
MH-6421	586.59	585.64	(N/A)	(N/A)	584.7	1.06	0.1

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6585	586.61	(N/A)	(N/A)	(N/A)	585.66	0.04	0.03
MH-6197	586.64	584.63	585.3	(N/A)	584.63	0.64	0.08
MH-5745	586.65	(N/A)	(N/A)	(N/A)	585.7	0.07	0.04
MH-6578	586.67	(N/A)	(N/A)	(N/A)	585.72	0.04	0.03
MH-3985	586.67	585.09	585.56	(N/A)	585.09	0.2	0.04
MH-5048	586.67	(N/A)	(N/A)	(N/A)	585.72	0.01	0.01
MH-4036	586.68	585.28	(N/A)	(N/A)	585.28	0.01	0.02
MH-1570	586.68	585.33	585.38	585.73	585.08	2.93	0.16
MH-2771	586.69	585.74	(N/A)	(N/A)	585.45	0.23	0.05
MH-5123	586.69	584.77	(N/A)	(N/A)	584.77	0.19	0.04
MH-3538	586.7	(N/A)	(N/A)	(N/A)	585.75	0.01	0.01
MH-2767	586.7	585.21	584.62	(N/A)	584.62	0.49	0.08
MH-4220	586.71	(N/A)	(N/A)	(N/A)	585.76	0.01	0.01
MH-902	586.72	585.77	583.65	(N/A)	583.6	1.88	0.16
MH-3968	586.73	585.78	(N/A)	(N/A)	585.78	0.08	0.03
MH-5839	586.74	585.79	(N/A)	(N/A)	585.33	0.39	0.06
MH-1569	586.81	585.86	(N/A)	(N/A)	585.81	0.07	0.02
MH-4619	586.84	585.76	585.89	(N/A)	585.46	2.67	0.14
MH-5484	586.84	585.49	585.89	585.64	585.49	15.41	0.31
MH-2127	586.85	585.04	(N/A)	(N/A)	585.04	0.29	0.05
MH-4757	586.85	(N/A)	(N/A)	(N/A)	585.9	0.03	0.02
MH-4893	586.88	585.93	(N/A)	(N/A)	585.93	0.04	0.03
MH-818	586.92	585.89	585.91	(N/A)	585.52	0.45	0.07
MH-3967	586.92	585.97	(N/A)	(N/A)	585.97	0.06	0.02
MH-62	586.95	585.54	585.35	(N/A)	584.87	20.33	0.42
MH-61	586.95	585.55	(N/A)	(N/A)	585.55	19.15	0.36
MH-1914	586.95	585.37	586	(N/A)	585.37	1.16	0.12
MH-989	586.96	586.01	(N/A)	(N/A)	586.01	0.37	0.06
MH-2047	586.97	585.65	586.02	585.4	585.4	2.79	0.16
MH-5702	586.98	582.25	(N/A)	(N/A)	582.25	0.66	0.08
MH-4354	587	585.87	(N/A)	(N/A)	585.87	0.04	0.03
MH-6802	587	584.81	(N/A)	(N/A)	584.81	20.41	0.41
MH-396	587	(N/A)	(N/A)	(N/A)	586.05	0	0.01
MH-395	587	585.56	586.05	584.56	584.54	0.55	0.08
MH-2126	587	585.1	586.05	(N/A)	585.1	0.27	0.05
MH-4084	587.01	585.85	(N/A)	(N/A)	585.85	0.06	0.03
MH-4085	587.02	585.82	(N/A)	(N/A)	585.82	0.06	0.02
MH-6143	587.03	585.93	(N/A)	(N/A)	585.93	0.19	0.04
MH-5483	587.04	585.84	(N/A)	(N/A)	585.84	9.78	0.24
MH-1385	587.05	585.58	(N/A)	(N/A)	585.58	0.05	0.03
MH-388	587.06	584.89	(N/A)	(N/A)	584.89	0.17	0.04
MH-387	587.06	585.08	(N/A)	(N/A)	585.08	0.16	0.04
MH-4613	587.07	586.12	(N/A)	(N/A)	586.12	0.06	0.02
MH-311	587.07	584.88	586.12	(N/A)	584.88	0.25	0.05
MH-2046	587.07	585.66	585.41	(N/A)	585.41	2.75	0.16
MH-312	587.07	586.12	(N/A)	(N/A)	586.12	0.05	0.02
MH-2816	587.07	585.25	(N/A)	(N/A)	585.25	0.02	0.03
MH-6804	587.08	584.74	(N/A)	(N/A)	584.74	20.47	0.38

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-3920	587.08	585.73	(N/A)	(N/A)	585.73	0.01	0.02
MH-1384	587.09	585.59	(N/A)	(N/A)	585.59	0.05	0.03
MH-3703	587.09	(N/A)	(N/A)	(N/A)	586.14	0.02	0.02
MH-6805	587.11	584.7	(N/A)	(N/A)	584.7	20.5	0.3
MH-4270	587.13	586.18	(N/A)	(N/A)	586.18	0.03	0.02
MH-3887	587.14	586.19	(N/A)	(N/A)	586.19	0.05	0.03
MH-2292	587.15	585.22	586.2	585.22	585.22	0.12	0.03
MH-5379	587.15	(N/A)	(N/A)	(N/A)	585.91	0.02	0.01
MH-418	587.17	(N/A)	(N/A)	(N/A)	586.22	0.01	0.02
MH-417	587.17	586.22	586.22	(N/A)	586.22	0.05	0.02
MH-5046	587.18	(N/A)	(N/A)	(N/A)	586.23	0.03	0.02
MH-2513	587.2	585.45	586.12	(N/A)	585.45	2.68	0.14
MH-5232	587.21	586.26	(N/A)	(N/A)	586.26	0.02	0.02
MH-3886	587.22	586.27	(N/A)	(N/A)	586.27	0.04	0.02
MH-4257	587.23	583.93	586.02	584.46	583.93	21.62	0.43
MH-5298	587.23	(N/A)	(N/A)	(N/A)	586.28	0.02	0.02
MH-4711	587.24	586.29	586.29	(N/A)	586.26	0.75	0.08
MH-3081	587.26	586.31	(N/A)	(N/A)	586.23	0.14	0.04
MH-3789	587.28	(N/A)	(N/A)	(N/A)	586.33	0.02	0.03
MH-5253	587.28	586.33	(N/A)	(N/A)	585.6	0.06	0.02
MH-4213	587.29	586.33	(N/A)	(N/A)	586.33	0.01	0.02
MH-2239	587.3	585.46	(N/A)	(N/A)	585.46	2.65	0.15
MH-4212	587.31	(N/A)	(N/A)	(N/A)	586.36	0.01	0.01
MH-6797	587.31	585.91	586.08	(N/A)	585.66	19.15	0.3
MH-5442	587.32	586.37	(N/A)	(N/A)	586.37	0.03	0.02
MH-4677	587.32	586.37	(N/A)	(N/A)	586.29	0.08	0.03
MH-1935	587.33	585.24	585.7	(N/A)	585.24	0.1	0.05
MH-5354	587.33	586.38	(N/A)	(N/A)	585.33	0.32	0.05
MH-4204	587.34	586.31	(N/A)	(N/A)	586.31	0.02	0.02
MH-4352	587.34	586.39	(N/A)	(N/A)	583.69	0.27	0.05
MH-5891	587.35	586.4	(N/A)	(N/A)	586.4	0.01	0.01
MH-2415	587.36	585.5	(N/A)	(N/A)	585.5	0.37	0.06
MH-4351	587.37	586.42	(N/A)	(N/A)	586.42	0.1	0.05
MH-915	587.38	585.41	(N/A)	(N/A)	585.41	1.07	0.12
MH-2926	587.38	586.09	(N/A)	(N/A)	586.09	0.55	0.08
MH-5441	587.39	(N/A)	(N/A)	(N/A)	586.44	0.01	0.01
MH-4335	587.39	586.44	(N/A)	(N/A)	586.44	0.02	0.02
MH-4034	587.39	585.37	586.44	(N/A)	585.37	0.15	0.04
MH-839	587.39	586.44	585.53	(N/A)	585.46	1.05	0.12
MH-1102	587.39	585.47	586.42	(N/A)	585.47	2.65	0.16
MH-4334	587.42	(N/A)	(N/A)	(N/A)	586.47	0.01	0.02
MH-1863	587.42	585.71	586.2	(N/A)	585.71	0.08	0.04
MH-3875	587.43	586.28	(N/A)	(N/A)	586.28	0.02	0.02
MH-1101	587.43	586.42	(N/A)	(N/A)	586.42	0.04	0.03
MH-4892	587.44	(N/A)	(N/A)	(N/A)	586.26	0.02	0.01
MH-5890	587.44	(N/A)	(N/A)	(N/A)	586.49	0.01	0.01
MH-3970	587.45	586.47	(N/A)	(N/A)	586.47	0.04	0.02
MH-6413	587.46	(N/A)	(N/A)	(N/A)	586.51	0.04	0.03

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5389	587.46	586.51	(N/A)	(N/A)	586.51	0.12	0.03
MH-5997	587.46	(N/A)	(N/A)	(N/A)	585.39	0.02	0.01
MH-5026	587.48	586.39	(N/A)	(N/A)	586.39	0.03	0.03
MH-2925	587.48	586.13	(N/A)	(N/A)	586.13	0.54	0.08
MH-3876	587.49	586.26	(N/A)	(N/A)	586.26	0.03	0.03
MH-6798	587.5	586.1	(N/A)	(N/A)	586.01	18.39	0.3
MH-2410	587.5	585.48	(N/A)	(N/A)	585.48	2.6	0.16
MH-3916	587.52	586.24	(N/A)	(N/A)	586.24	0.04	0.03
MH-6459	587.52	(N/A)	(N/A)	(N/A)	586.27	0.03	0.02
MH-4174	587.53	586.58	(N/A)	(N/A)	586.02	0.18	0.04
MH-2416	587.54	585.66	(N/A)	(N/A)	585.66	0.31	0.06
MH-3790	587.55	586.31	586.6	(N/A)	586.31	0.24	0.05
MH-4689	587.55	(N/A)	(N/A)	(N/A)	586.6	0.02	0.02
MH-1862	587.56	586.21	(N/A)	(N/A)	586.21	0.06	0.03
MH-2348	587.56	586.22	(N/A)	(N/A)	586.22	0.05	0.03
MH-4325	587.56	(N/A)	(N/A)	(N/A)	586.46	0.01	0.01
MH-4538	587.57	586.5	586.62	(N/A)	586.05	2.41	0.13
MH-5126	587.57	586.62	(N/A)	(N/A)	586.62	0.08	0.03
MH-5027	587.59	586.36	(N/A)	(N/A)	586.36	0.06	0.04
MH-3304	587.6	586.2	586.2	586.53	586.18	0.53	0.08
MH-3509	587.61	586.55	(N/A)	(N/A)	586.55	0.04	0.03
MH-4382	587.61	586.57	(N/A)	(N/A)	586.57	0.04	0.03
MH-3969	587.63	586.68	(N/A)	(N/A)	586.68	0.03	0.02
MH-1708	587.66	586.71	(N/A)	(N/A)	586.58	0.13	0.03
MH-4710	587.67	586.72	(N/A)	(N/A)	586.59	0.11	0.03
MH-2451	587.67	585.72	(N/A)	(N/A)	585.72	0.3	0.05
MH-6651	587.71	(N/A)	(N/A)	(N/A)	586.76	0.29	0.05
MH-3274	587.71	586.72	(N/A)	(N/A)	586.72	0.04	0.03
MH-2747	587.71	586.31	586.68	586.7	586.31	0.44	0.07
MH-4109	587.72	586.77	(N/A)	(N/A)	586.77	0.08	0.03
MH-4880	587.72	(N/A)	(N/A)	(N/A)	586.77	0.02	0.02
MH-408	587.73	586.78	(N/A)	(N/A)	586.38	0.5	0.07
MH-407	587.74	586.79	586.79	(N/A)	586.79	0.45	0.07
MH-3859	587.75	586.74	(N/A)	(N/A)	586.74	0.03	0.03
MH-4609	587.75	(N/A)	(N/A)	(N/A)	586.8	0.02	0.02
MH-5824	587.76	586.69	(N/A)	(N/A)	586.69	0.97	0.1
MH-6308	587.76	(N/A)	(N/A)	(N/A)	586.81	0.03	0.02
MH-3284	587.79	586.24	(N/A)	(N/A)	586.24	0.04	0.03
MH-6307	587.79	586.84	586.25	(N/A)	586.25	0.35	0.06
MH-2746	587.8	586.75	(N/A)	(N/A)	586.75	0.34	0.06
MH-3865	587.82	585.84	(N/A)	(N/A)	585.84	0.28	0.05
MH-1709	587.82	586.87	(N/A)	(N/A)	586.8	0.11	0.03
MH-6626	587.84	586.89	586.89	(N/A)	586.89	0.94	0.1
MH-4610	587.84	585.65	586.77	(N/A)	585.52	2.59	0.16
MH-3866	587.86	585.96	(N/A)	(N/A)	585.96	0.27	0.05
MH-4033	587.87	586.92	(N/A)	(N/A)	586.68	0.04	0.02
MH-4349	587.87	(N/A)	(N/A)	(N/A)	586.92	0.02	0.01
MH-6799	587.87	586.47	(N/A)	(N/A)	586.3	18.39	0.3

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5892	587.9	586.95	(N/A)	(N/A)	586.95	0.3	0.05
MH-4458	587.92	586.87	(N/A)	(N/A)	586.87	0.33	0.06
MH-4592	587.96	586.76	(N/A)	(N/A)	586.53	9.68	0.24
MH-6293	587.98	(N/A)	(N/A)	(N/A)	587.03	0.05	0.03
MH-5915	587.99	(N/A)	(N/A)	(N/A)	587.04	0.05	0.03
MH-4182	588	(N/A)	(N/A)	(N/A)	587.05	0.04	0.03
MH-5840	588.01	587.06	(N/A)	(N/A)	586.27	0.21	0.04
MH-5512	588.02	586.82	(N/A)	(N/A)	586.05	5.06	0.17
MH-2169	588.04	587.09	(N/A)	(N/A)	587.09	0.04	0.02
MH-4467	588.07	586.93	(N/A)	(N/A)	585.89	1.46	0.11
MH-4183	588.1	585.68	587.03	(N/A)	585.68	2.52	0.19
MH-4110	588.1	(N/A)	(N/A)	(N/A)	587.01	0.04	0.02
MH-2110	588.12	587.17	(N/A)	(N/A)	587.12	0.1	0.03
MH-4466	588.15	587.2	587.04	(N/A)	586.97	1.36	0.14
MH-4373	588.16	587.19	(N/A)	(N/A)	587.19	0.28	0.05
MH-5002	588.21	587.26	(N/A)	(N/A)	587.26	0.02	0.01
MH-3930	588.23	587.28	(N/A)	(N/A)	586.83	0.12	0.03
MH-4291	588.23	587.28	(N/A)	(N/A)	587.28	0.08	0.04
MH-3445	588.23	587.28	(N/A)	(N/A)	587.28	0.03	0.03
MH-18	588.25	587.05	587.05	(N/A)	587.05	9.56	0.24
MH-17	588.25	587.05	(N/A)	(N/A)	587.05	4.76	0.24
MH-2168	588.26	587.31	(N/A)	(N/A)	587.21	0.02	0.01
MH-2109	588.27	587.32	(N/A)	(N/A)	587.28	0.06	0.02
MH-4753	588.3	586.14	(N/A)	(N/A)	586.14	0.26	0.05
MH-103	588.3	586.99	(N/A)	(N/A)	586.99	0.05	0.02
MH-104	588.3	586.99	586.63	(N/A)	586.63	0.19	0.04
MH-2882	588.31	586.46	(N/A)	(N/A)	586.46	0.2	0.04
MH-4672	588.31	587.36	585.72	(N/A)	585.72	2.47	0.2
MH-2382	588.34	586.36	(N/A)	(N/A)	586.36	0.2	0.04
MH-1925	588.36	587.41	586.68	(N/A)	586.68	0.13	0.03
MH-4537	588.37	586.78	587.42	(N/A)	586.78	2.36	0.13
MH-2381	588.37	586.27	(N/A)	(N/A)	586.27	0.22	0.04
MH-4372	588.38	587.34	587.34	(N/A)	587.34	0.25	0.05
MH-3700	588.4	587.45	587.45	586.97	586.97	0.12	0.03
MH-5391	588.42	(N/A)	(N/A)	(N/A)	587.47	0.06	0.03
MH-5343	588.42	(N/A)	(N/A)	(N/A)	587.47	0.07	0.03
MH-3395	588.43	586.16	(N/A)	(N/A)	586.16	0.23	0.05
MH-2591	588.44	(N/A)	(N/A)	(N/A)	587.49	0	0.01
MH-4652	588.45	587.5	585.75	(N/A)	585.75	2.38	0.2
MH-5141	588.45	587.5	(N/A)	(N/A)	586.73	0.04	0.02
MH-3444	588.46	587.26	(N/A)	(N/A)	587.26	0.05	0.03
MH-2309	588.46	587.48	587.48	(N/A)	587.48	0.03	0.03
MH-3753	588.46	(N/A)	(N/A)	(N/A)	587.51	0.04	0.02
MH-6271	588.48	(N/A)	(N/A)	(N/A)	587.53	0.05	0.02
MH-2945	588.48	587.53	(N/A)	(N/A)	587.53	0.02	0.02
MH-3589	588.49	(N/A)	(N/A)	(N/A)	587.54	0.01	0.01
MH-3532	588.5	586.04	(N/A)	(N/A)	586.04	0.24	0.05
MH-5001	588.53	(N/A)	(N/A)	(N/A)	587.58	0.01	0.01

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-3699	588.53	(N/A)	(N/A)	(N/A)	587.58	0.01	0.01
MH-2310	588.53	587.47	(N/A)	(N/A)	587.47	0.04	0.03
MH-4016	588.55	587.6	(N/A)	(N/A)	587.6	0.02	0.02
MH-3057	588.56	587.61	587.61	(N/A)	587.55	0.06	0.02
MH-3945	588.58	585.9	586.88	586.73	585.78	2.35	0.2
MH-5087	588.59	(N/A)	(N/A)	(N/A)	587.64	0.02	0.01
MH-4015	588.62	(N/A)	(N/A)	(N/A)	587.67	0.01	0.01
MH-5075	588.64	587.6	(N/A)	(N/A)	587.6	0.16	0.04
MH-2873	588.66	587.71	(N/A)	(N/A)	587.71	0.1	0.05
MH-3774	588.67	587.71	587.44	(N/A)	587.44	0.09	0.04
MH-3944	588.68	586.9	(N/A)	(N/A)	586.9	1.93	0.16
MH-4156	588.68	587.73	(N/A)	(N/A)	587.73	0.04	0.03
MH-3850	588.68	587.26	(N/A)	(N/A)	587.26	0.09	0.04
MH-2874	588.68	587.7	(N/A)	(N/A)	587.7	0.13	0.03
MH-3760	588.7	587.75	587.42	(N/A)	587.42	0.12	0.05
MH-437	588.7	586.32	587.23	587.75	586.32	0.24	0.05
MH-438	588.71	(N/A)	(N/A)	(N/A)	587.76	0.01	0.01
MH-4508	588.72	587.77	(N/A)	(N/A)	587.77	0.03	0.03
MH-3209	588.72	587.77	(N/A)	(N/A)	587.72	0.02	0.01
MH-4240	588.75	587.39	587.8	(N/A)	587.39	0.13	0.04
MH-6587	588.76	(N/A)	(N/A)	(N/A)	586.07	0.17	0.04
MH-3056	588.76	587.81	(N/A)	(N/A)	587.78	0.01	0.01
MH-4104	588.77	587.82	(N/A)	(N/A)	587.82	0.13	0.03
MH-6270	588.78	587.21	587.8	(N/A)	587.21	0.27	0.05
MH-5952	588.79	587.1	(N/A)	(N/A)	587.1	0.18	0.04
MH-6013	588.79	587.84	(N/A)	(N/A)	587.24	0.2	0.04
MH-4546	588.79	(N/A)	(N/A)	(N/A)	587.84	0.02	0.02
MH-5998	588.8	587.59	587.85	(N/A)	587.43	0.75	0.09
MH-3759	588.83	(N/A)	(N/A)	(N/A)	587.88	0.02	0.01
MH-3489	588.86	587.91	(N/A)	(N/A)	587.81	0.04	0.02
MH-4268	588.86	587.51	587.07	(N/A)	586.95	1.91	0.16
MH-5106	588.86	587.91	(N/A)	(N/A)	587.91	0.13	0.03
MH-5394	588.87	587.74	587.92	(N/A)	587.69	1.47	0.13
MH-3929	588.88	587.93	(N/A)	(N/A)	587.51	0.08	0.03
MH-5965	588.89	587.89	(N/A)	(N/A)	587.89	0.06	0.02
MH-4239	588.9	(N/A)	(N/A)	(N/A)	587.95	0.01	0.01
MH-3210	588.9	(N/A)	(N/A)	(N/A)	587.95	0.01	0.01
MH-5878	588.92	587.97	(N/A)	(N/A)	587.97	0.2	0.04
MH-3228	588.92	587.53	(N/A)	(N/A)	587.53	0.14	0.04
MH-5336	588.95	(N/A)	(N/A)	(N/A)	588	0.14	0.04
MH-4980	588.96	587.58	(N/A)	(N/A)	587.58	1.49	0.14
MH-5928	588.98	(N/A)	(N/A)	(N/A)	587.03	0.14	0.04
MH-3160	588.99	(N/A)	(N/A)	(N/A)	587.99	0	0.01
MH-4267	588.99	588.04	588.04	587.54	587.54	1.76	0.15
MH-5703	589	587.83	(N/A)	(N/A)	587.83	1.21	0.13
MH-5006	589	(N/A)	(N/A)	(N/A)	587.64	0.01	0.01
MH-3618	589.03	588.08	(N/A)	(N/A)	588.08	0.02	0.01
MH-3708	589.03	588.08	(N/A)	(N/A)	588.08	0.02	0.02

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-3729	589.05	587.23	(N/A)	(N/A)	587.23	0.1	0.05
MH-5963	589.07	(N/A)	(N/A)	(N/A)	588.12	0.1	0.03
MH-386	589.07	588.12	(N/A)	(N/A)	587.23	0.38	0.06
MH-385	589.08	588.13	588.13	(N/A)	588.13	0.35	0.06
MH-3801	589.1	588.05	588.15	(N/A)	588.05	0.06	0.02
MH-5310	589.1	587.9	(N/A)	(N/A)	587.24	5.02	0.17
MH-4834	589.1	(N/A)	(N/A)	(N/A)	588.15	0.03	0.03
MH-4137	589.12	586.52	(N/A)	(N/A)	586.52	0.18	0.04
MH-5337	589.16	587.68	(N/A)	(N/A)	587.68	0.17	0.04
MH-6800	589.17	587.77	(N/A)	(N/A)	587.16	18.36	0.3
MH-6272	589.19	(N/A)	(N/A)	(N/A)	588.24	0.03	0.02
MH-3707	589.24	588.29	(N/A)	(N/A)	588.29	0.01	0.01
MH-5964	589.26	(N/A)	(N/A)	(N/A)	588.31	0.02	0.01
MH-5015	589.29	588.34	(N/A)	(N/A)	587.75	0.05	0.02
MH-5809	589.31	588.36	(N/A)	(N/A)	587.29	0.04	0.02
MH-1803	589.32	586.95	(N/A)	(N/A)	586.95	2.3	0.13
MH-3730	589.36	587.21	(N/A)	(N/A)	587.21	0.13	0.03
MH-6389	589.36	(N/A)	(N/A)	(N/A)	588.41	0.04	0.03
MH-6038	589.36	588.41	588.16	(N/A)	587.59	4.8	0.17
MH-5140	589.37	(N/A)	(N/A)	(N/A)	587.85	0.01	0.01
MH-4401	589.37	(N/A)	(N/A)	(N/A)	588.12	0.04	0.02
MH-4835	589.38	588.43	588.12	(N/A)	588.12	0.1	0.05
MH-4790	589.38	(N/A)	(N/A)	(N/A)	588.38	0.01	0.01
MH-4881	589.39	588.44	(N/A)	(N/A)	588.36	0.11	0.03
MH-5653	589.43	587.89	588.48	(N/A)	587.89	1.18	0.13
MH-6190	589.45	(N/A)	(N/A)	(N/A)	588.44	0.09	0.03
MH-3746	589.45	586.71	(N/A)	(N/A)	586.71	0.17	0.04
MH-6502	589.47	(N/A)	(N/A)	(N/A)	587.35	0.05	0.02
MH-5464	589.47	(N/A)	(N/A)	(N/A)	588.52	0.03	0.02
MH-4277	589.48	(N/A)	(N/A)	(N/A)	588.53	0.01	0.01
MH-6801	589.51	588.11	(N/A)	(N/A)	587.95	18.34	0.3
MH-6652	589.52	(N/A)	(N/A)	(N/A)	588.57	0.15	0.04
MH-4489	589.52	588.57	(N/A)	(N/A)	588.32	0.15	0.04
MH-1802	589.58	588.63	586.96	(N/A)	586.96	2.29	0.16
MH-5784	589.6	(N/A)	(N/A)	(N/A)	587.62	0.07	0.03
MH-5843	589.62	(N/A)	(N/A)	(N/A)	588.67	0.04	0.02
MH-6041	589.62	588.67	(N/A)	(N/A)	588.67	0.26	0.05
MH-5393	589.66	588.71	(N/A)	(N/A)	588.31	0.24	0.05
MH-5121	589.69	588.49	(N/A)	(N/A)	587.89	4.69	0.17
MH-3745	589.71	586.88	(N/A)	(N/A)	586.88	0.15	0.04
MH-4484	589.77	588.82	588.81	(N/A)	588.37	0.16	0.04
MH-3877	589.81	588.86	(N/A)	(N/A)	588.86	0.09	0.04
MH-2328	589.83	(N/A)	(N/A)	(N/A)	588.88	0.02	0.02
MH-3878	589.83	588.84	(N/A)	(N/A)	588.84	0.1	0.05
MH-2166	589.85	587.35	(N/A)	(N/A)	587.35	0.18	0.04
MH-5565	589.86	(N/A)	(N/A)	(N/A)	588.91	0.09	0.04
MH-749	589.87	588.17	588.6	(N/A)	588.17	0.18	0.04
MH-750	589.88	588.78	(N/A)	(N/A)	588.78	0.12	0.03

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6653	589.92	(N/A)	(N/A)	(N/A)	587.62	0.76	0.09
MH-2327	589.93	588.87	(N/A)	(N/A)	588.87	0.04	0.03
MH-5290	589.94	588.07	588.81	(N/A)	588.01	0.89	0.1
MH-2167	589.94	587.27	588.82	(N/A)	587.27	0.3	0.05
MH-4950	589.94	588.99	(N/A)	(N/A)	588.77	0.07	0.03
MH-3405	589.95	586.98	(N/A)	(N/A)	586.98	2.19	0.17
MH-2963	589.95	588.75	(N/A)	(N/A)	588.28	4.96	0.17
MH-6627	589.99	(N/A)	(N/A)	(N/A)	588.59	0.16	0.04
MH-5927	590	(N/A)	(N/A)	(N/A)	587.69	0.09	0.03
MH-4826	590.09	588.89	589.14	(N/A)	588.89	0.75	0.1
MH-6541	590.13	(N/A)	(N/A)	(N/A)	587.86	0.03	0.02
MH-6045	590.15	588.24	(N/A)	(N/A)	588.24	0.55	0.07
MH-5122	590.16	588.84	(N/A)	(N/A)	588.84	4.65	0.16
MH-4825	590.18	588.96	589.23	(N/A)	588.96	0.62	0.09
MH-5873	590.23	588.98	(N/A)	(N/A)	588.98	4.63	0.17
MH-5133	590.24	589.29	(N/A)	(N/A)	588.69	0.03	0.02
MH-4791	590.26	589.31	589.18	(N/A)	589.18	0.46	0.08
MH-4651	590.27	589.07	589.32	(N/A)	589.05	0.56	0.08
MH-4483	590.27	589.32	(N/A)	(N/A)	589.1	0.05	0.02
MH-4894	590.3	589.1	(N/A)	(N/A)	589.1	4.06	0.23
MH-2964	590.32	589.12	(N/A)	(N/A)	588.91	4.92	0.17
MH-6040	590.34	588.39	(N/A)	(N/A)	588.39	0.47	0.08
MH-4926	590.35	589.37	(N/A)	(N/A)	589.37	0.21	0.04
MH-5270	590.35	588.95	(N/A)	(N/A)	588.55	18.33	0.3
MH-6211	590.38	589.43	(N/A)	(N/A)	589.43	0.19	0.04
MH-5808	590.42	(N/A)	(N/A)	(N/A)	588.82	0.02	0.01
MH-4114	590.42	589.47	(N/A)	(N/A)	588.89	0.1	0.03
MH-323	590.43	588.33	589.48	(N/A)	588.33	0.58	0.08
MH-5390	590.45	589.5	(N/A)	(N/A)	588.96	0.13	0.04
MH-6401	590.47	(N/A)	(N/A)	(N/A)	589.21	0.04	0.02
MH-4650	590.67	589.72	(N/A)	(N/A)	589.61	0.07	0.02
MH-5652	590.67	589.72	(N/A)	(N/A)	588.91	0.26	0.05
MH-2	590.69	589.09	(N/A)	(N/A)	589.09	4.06	0.23
MH-1	590.69	589.32	589.07	(N/A)	589.07	4.09	0.23
MH-793	590.71	589.76	588.81	(N/A)	588.81	0.1	0.05
MH-6252	590.71	589.51	(N/A)	(N/A)	589.51	4	0.15
MH-3935	590.75	589.8	589.8	(N/A)	589.72	0.53	0.07
MH-4919	590.77	589.82	(N/A)	(N/A)	589.32	0.05	0.02
MH-1181	590.81	589.86	(N/A)	(N/A)	589.86	0.04	0.02
MH-736	590.81	589.84	(N/A)	(N/A)	589.79	1.11	0.11
MH-6418	590.81	(N/A)	(N/A)	(N/A)	588.94	0.07	0.02
MH-735	590.82	589.42	589.74	(N/A)	589.35	18.3	0.3
MH-6557	590.84	(N/A)	(N/A)	(N/A)	589.82	0.13	0.03
MH-3647	590.85	589.03	589.89	(N/A)	589.03	4.61	0.23
MH-4453	590.86	589.91	(N/A)	(N/A)	589.6	0.04	0.02
MH-6221	590.9	(N/A)	(N/A)	(N/A)	589.95	0.02	0.01
MH-5444	590.9	(N/A)	(N/A)	(N/A)	589.95	0.03	0.03
MH-410	590.92	589.97	589.05	(N/A)	589.05	4.19	0.23

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6398	590.96	589.75	(N/A)	(N/A)	589.75	3.9	0.15
MH-3722	590.98	(N/A)	(N/A)	(N/A)	590.03	0.01	0.01
MH-5445	590.99	589.91	(N/A)	(N/A)	589.47	0.06	0.02
MH-1713	590.99	590.04	(N/A)	(N/A)	590.04	0.03	0.02
MH-4235	591.01	589.15	587.15	(N/A)	587.03	2.17	0.18
MH-5566	591.04	588.86	(N/A)	(N/A)	588.86	0.11	0.05
MH-463	591.05	590.1	590.09	(N/A)	590.09	0.09	0.03
MH-6682	591.09	590.14	(N/A)	(N/A)	588.9	0.22	0.04
MH-4849	591.12	590.17	(N/A)	(N/A)	589.9	0.2	0.04
MH-4451	591.12	(N/A)	(N/A)	(N/A)	590.17	0.21	0.04
MH-6790	591.15	589.95	590.2	(N/A)	589.95	3.8	0.15
MH-5470	591.17	(N/A)	(N/A)	(N/A)	589.7	0.02	0.01
MH-6141	591.17	590.22	(N/A)	(N/A)	589.73	0.11	0.03
MH-1712	591.19	(N/A)	(N/A)	(N/A)	590.13	0.02	0.01
MH-5921	591.21	590.26	(N/A)	(N/A)	589.93	0.04	0.02
MH-4113	591.26	590.31	(N/A)	(N/A)	589.71	0.09	0.03
MH-6212	591.27	(N/A)	(N/A)	(N/A)	590.06	0.17	0.04
MH-6238	591.28	(N/A)	(N/A)	(N/A)	590.33	0.01	0.01
MH-6342	591.31	589.24	(N/A)	(N/A)	589.24	1.86	0.16
MH-5414	591.32	589.8	590.37	(N/A)	589.8	17.15	0.29
MH-506	591.41	590.44	(N/A)	(N/A)	590.23	0.06	0.02
MH-505	591.41	590.46	590.46	(N/A)	590.46	0.06	0.03
MH-4938	591.41	(N/A)	(N/A)	(N/A)	590.46	0.01	0.02
MH-5650	591.42	590.47	(N/A)	(N/A)	590.24	0.05	0.02
MH-4533	591.43	(N/A)	(N/A)	(N/A)	590.48	0.01	0.01
MH-5978	591.46	590.48	(N/A)	(N/A)	590.06	1.09	0.1
MH-4384	591.47	590.27	590.52	(N/A)	589.34	4.61	0.16
MH-113	591.47	589.98	590.27	590.52	589.73	4.88	0.17
MH-114	591.47	589.52	(N/A)	(N/A)	589.52	4.9	0.17
MH-6292	591.5	590.55	(N/A)	(N/A)	590.47	0.3	0.05
MH-6685	591.5	589.27	(N/A)	(N/A)	589.27	1.84	0.16
MH-4929	591.52	590.57	(N/A)	(N/A)	589.92	0.1	0.03
MH-2459	591.53	(N/A)	(N/A)	(N/A)	590.58	0	0.01
MH-4918	591.57	(N/A)	(N/A)	(N/A)	590.14	0.04	0.02
MH-4995	591.59	(N/A)	(N/A)	(N/A)	590.05	0.02	0.01
MH-3666	591.6	(N/A)	(N/A)	(N/A)	590.65	0.01	0.01
MH-6219	591.6	(N/A)	(N/A)	(N/A)	590.65	0.01	0.01
MH-4848	591.6	590.65	(N/A)	(N/A)	590.48	0.18	0.04
MH-5939	591.61	589.69	(N/A)	(N/A)	589.69	0.19	0.04
MH-5530	591.65	590.25	(N/A)	(N/A)	590.25	16.79	0.29
MH-3737	591.66	590.43	(N/A)	(N/A)	590.43	0.02	0.02
MH-905	591.66	590.63	(N/A)	(N/A)	590.21	0.2	0.04
MH-85	591.66	590.07	(N/A)	(N/A)	590.07	0.41	0.07
MH-836	591.68	590.73	590.73	(N/A)	590.73	0.17	0.04
MH-39	591.72	590.69	(N/A)	(N/A)	590.69	0.03	0.02
MH-293	591.72	590.77	(N/A)	(N/A)	590.77	0.02	0.01
MH-294	591.72	590.77	(N/A)	(N/A)	590.77	0.01	0.01
MH-3723	591.73	590.01	(N/A)	(N/A)	590.01	0.02	0.02

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-1419	591.74	590.18	(N/A)	(N/A)	590.18	0.39	0.07
MH-6684	591.75	589.47	590.54	(N/A)	589.35	1.79	0.16
MH-3408	591.79	590.83	(N/A)	(N/A)	590.83	0.18	0.04
MH-6683	591.8	590.76	590.69	(N/A)	590.64	1.59	0.14
MH-4383	591.81	590.86	(N/A)	(N/A)	590.78	0.06	0.02
MH-2157	591.82	590.41	(N/A)	(N/A)	590.41	0.03	0.02
MH-768	591.85	590.65	590.9	(N/A)	590.58	4.13	0.15
MH-3667	591.87	590.63	(N/A)	(N/A)	590.63	0.02	0.02
MH-5920	591.89	(N/A)	(N/A)	(N/A)	590.75	0.02	0.01
MH-5749	591.9	590.87	(N/A)	(N/A)	590.18	0.21	0.04
MH-6288	591.94	(N/A)	(N/A)	(N/A)	590.99	0.01	0.01
MH-4972	591.96	(N/A)	(N/A)	(N/A)	591.01	0.01	0.01
MH-5020	591.98	590.96	591.03	(N/A)	590.96	1.4	0.11
MH-2158	591.98	589.88	590.4	591.03	589.88	0.17	0.04
MH-5767	592.01	591.06	(N/A)	(N/A)	591.06	0.25	0.05
MH-5649	592.03	(N/A)	(N/A)	(N/A)	590.9	0.03	0.02
MH-3409	592.06	591.11	(N/A)	(N/A)	591.11	0.16	0.04
MH-4994	592.11	(N/A)	(N/A)	(N/A)	590.98	0.16	0.04
MH-15	592.15	591.2	590.53	(N/A)	590.53	0.04	0.05
MH-16	592.15	590.52	591.2	(N/A)	590.52	0.38	0.07
MH-4492	592.15	590.45	(N/A)	(N/A)	590.45	0.02	0.02
MH-2668	592.18	591.23	591.23	(N/A)	591.23	0.05	0.02
MH-5781	592.18	591.21	(N/A)	(N/A)	591.21	0.21	0.04
MH-4996	592.18	(N/A)	(N/A)	(N/A)	591	0.03	0.02
MH-3355	592.2	591.25	(N/A)	(N/A)	591.05	0.06	0.02
MH-3648	592.21	589.9	590.59	(N/A)	589.9	0.09	0.04
MH-2669	592.24	(N/A)	(N/A)	(N/A)	591.29	0.01	0.01
MH-4046	592.31	591.35	(N/A)	(N/A)	591.27	0.15	0.04
MH-4928	592.33	591.38	(N/A)	(N/A)	590.89	0.07	0.02
MH-5529	592.34	590.94	591.14	(N/A)	590.65	16.73	0.28
MH-6098	592.34	(N/A)	(N/A)	(N/A)	591.39	0.02	0.02
MH-1590	592.35	591.4	(N/A)	(N/A)	590.69	0.07	0.03
MH-5487	592.39	591.36	(N/A)	(N/A)	591.02	0.52	0.07
MH-5904	592.43	(N/A)	(N/A)	(N/A)	591.35	0.04	0.02
MH-3354	592.46	(N/A)	(N/A)	(N/A)	591.44	0.04	0.02
MH-5103	592.49	591.21	(N/A)	(N/A)	591.21	0.16	0.04
MH-6789	592.5	591.3	(N/A)	(N/A)	590.25	3.77	0.15
MH-4047	592.51	591.56	(N/A)	(N/A)	591.56	0.13	0.03
MH-4439	592.52	590.42	589.93	(N/A)	589.93	0.06	0.04
MH-1888	592.55	591.6	(N/A)	(N/A)	591.6	0.03	0.03
MH-1589	592.56	591.61	591.48	(N/A)	591.48	0.06	0.02
MH-4161	592.58	591.52	(N/A)	(N/A)	591.52	0.19	0.04
MH-4061	592.61	591.3	(N/A)	(N/A)	591.3	1.18	0.1
MH-3	592.62	591.67	591.67	(N/A)	591.61	0.33	0.06
MH-5097	592.64	591.69	(N/A)	(N/A)	589.54	0.18	0.04
MH-5902	592.65	(N/A)	(N/A)	(N/A)	591.7	0.02	0.01
MH-6788	592.67	591.72	591.47	(N/A)	591.47	3.75	0.15
MH-1887	592.67	(N/A)	(N/A)	(N/A)	591.7	0.02	0.01

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5450	592.68	(N/A)	(N/A)	(N/A)	591.73	0.04	0.02
MH-4051	592.69	591.57	591.74	(N/A)	591.57	0.07	0.04
MH-5836	592.7	591.75	(N/A)	(N/A)	591.46	0.13	0.03
MH-3939	592.7	591.5	(N/A)	(N/A)	591.22	4.43	0.16
MH-2369	592.72	589.98	(N/A)	(N/A)	589.98	0.03	0.02
MH-3375	592.73	591.53	(N/A)	(N/A)	591.53	3.37	0.14
MH-6540	592.75	(N/A)	(N/A)	(N/A)	591.8	0.08	0.04
MH-6450	592.78	591.37	(N/A)	(N/A)	591.37	1.02	0.1
MH-2551	592.8	591.85	(N/A)	(N/A)	591.81	0.25	0.05
MH-4162	592.8	591.71	(N/A)	(N/A)	591.71	0.16	0.04
MH-2720	592.84	591.89	591.54	(N/A)	591.54	0.12	0.03
MH-4405	592.86	(N/A)	(N/A)	(N/A)	591.91	0.02	0.02
MH-4569	592.86	591.33	(N/A)	(N/A)	591.33	0.04	0.02
MH-4447	592.87	591.92	(N/A)	(N/A)	591.92	0.06	0.02
MH-5256	592.89	591.8	(N/A)	(N/A)	591.8	0.11	0.03
MH-5587	592.91	591.96	(N/A)	(N/A)	591.52	0.18	0.04
MH-2719	592.94	591.99	(N/A)	(N/A)	591.99	0.05	0.02
MH-3938	592.96	591.76	(N/A)	(N/A)	591.73	4.38	0.16
MH-5257	592.97	591.84	(N/A)	(N/A)	591.84	0.09	0.04
MH-6148	592.98	591.43	(N/A)	(N/A)	591.43	3.74	0.15
MH-4340	592.98	(N/A)	(N/A)	(N/A)	592	0.02	0.01
MH-3374	592.99	591.79	(N/A)	(N/A)	591.72	3.28	0.14
MH-2370	593	589.97	(N/A)	(N/A)	589.97	0.03	0.03
MH-6787	593	592.05	(N/A)	(N/A)	592.02	0.61	0.08
MH-3265	593	(N/A)	(N/A)	(N/A)	592.05	0.01	0.02
MH-3266	593	592.03	(N/A)	(N/A)	591.79	0.02	0.01
MH-4060	593.06	591.34	(N/A)	(N/A)	591.34	1.17	0.12
MH-3611	593.11	591.47	(N/A)	(N/A)	591.47	0.47	0.08
MH-3547	593.14	592.05	(N/A)	(N/A)	592.05	0.14	0.04
MH-4406	593.16	591.88	(N/A)	(N/A)	591.88	0.05	0.03
MH-6388	593.17	592.22	(N/A)	(N/A)	591.55	0.28	0.05
MH-4728	593.21	592.26	(N/A)	(N/A)	591.76	0.04	0.02
MH-6479	593.25	(N/A)	(N/A)	(N/A)	591.02	0.09	0.03
MH-4173	593.31	592.36	(N/A)	(N/A)	592.36	0.1	0.04
MH-5523	593.34	(N/A)	(N/A)	(N/A)	592.39	0.02	0.01
MH-5586	593.38	592.43	(N/A)	(N/A)	592.38	0.14	0.04
MH-6791	593.38	592.18	(N/A)	(N/A)	592.18	3.1	0.13
MH-3548	593.44	(N/A)	(N/A)	(N/A)	592.49	0.01	0.01
MH-3991	593.46	592.51	(N/A)	(N/A)	592.51	0.05	0.03
MH-6236	593.46	591.98	(N/A)	(N/A)	591.95	0.57	0.08
MH-804	593.47	592.52	591.55	(N/A)	591.55	0.44	0.07
MH-4961	593.47	591.4	(N/A)	(N/A)	591.4	1.15	0.13
MH-5096	593.47	592.52	(N/A)	(N/A)	592.03	0.11	0.03
MH-5656	593.48	592.47	(N/A)	(N/A)	592.47	0.12	0.03
MH-3990	593.5	(N/A)	(N/A)	(N/A)	592.55	0.03	0.02
MH-6796	593.5	592.1	(N/A)	(N/A)	591.92	13.28	0.25
MH-5835	593.51	592.56	(N/A)	(N/A)	592.22	0.09	0.03
MH-6662	593.54	(N/A)	(N/A)	(N/A)	589.88	0.93	0.1

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5338	593.54	592.47	(N/A)	(N/A)	592.47	0.07	0.04
MH-4172	593.54	(N/A)	(N/A)	(N/A)	592.59	0.06	0.02
MH-4415	593.56	(N/A)	(N/A)	(N/A)	592.61	0.04	0.03
MH-4568	593.66	592.46	(N/A)	(N/A)	592.46	3.07	0.13
MH-5625	593.66	592.71	(N/A)	(N/A)	592.66	0.11	0.03
MH-4094	593.72	592.43	(N/A)	(N/A)	592.43	0.09	0.04
MH-4646	593.75	591.45	(N/A)	(N/A)	591.45	1.13	0.12
MH-1044	593.75	(N/A)	(N/A)	(N/A)	592.8	0.04	0.03
MH-616	593.82	592.87	592.79	592.3	592.27	0.6	0.09
MH-615	593.82	592.27	(N/A)	(N/A)	592.27	0.61	0.09
MH-6546	593.83	(N/A)	(N/A)	(N/A)	592.88	0.07	0.04
MH-4866	593.84	592.89	(N/A)	(N/A)	592.3	0.04	0.02
MH-5305	593.87	592.92	(N/A)	(N/A)	592.89	0.16	0.04
MH-6147	593.88	591.5	(N/A)	(N/A)	591.5	3.6	0.2
MH-4095	593.88	592.41	(N/A)	(N/A)	592.41	0.11	0.05
MH-6072	593.89	592.94	(N/A)	(N/A)	592.74	0.21	0.04
MH-2593	593.9	592.95	(N/A)	(N/A)	592.88	0.09	0.03
MH-3112	593.91	592.96	592.51	(N/A)	592.51	0.36	0.06
MH-5493	593.92	(N/A)	(N/A)	(N/A)	592.97	0.47	0.08
MH-4368	593.93	591.5	(N/A)	(N/A)	591.5	1.11	0.12
MH-2990	593.93	592.52	(N/A)	(N/A)	592.52	0.08	0.04
MH-4416	593.94	592.58	(N/A)	(N/A)	592.58	0.05	0.03
MH-443	593.96	591.69	592.2	(N/A)	591.69	0.26	0.05
MH-5494	593.97	592.86	(N/A)	(N/A)	592.83	0.6	0.09
MH-6432	593.98	592.69	(N/A)	(N/A)	592.69	0.25	0.05
MH-969	593.99	592.37	(N/A)	(N/A)	592.37	0.16	0.04
MH-5923	594.03	592.83	(N/A)	(N/A)	592.28	3.24	0.14
MH-2989	594.05	592.53	(N/A)	(N/A)	592.53	0.06	0.04
MH-3732	594.06	591.54	(N/A)	(N/A)	591.54	1.09	0.12
MH-5251	594.07	592.72	(N/A)	(N/A)	592.72	0.7	0.1
MH-2592	594.08	593.08	(N/A)	(N/A)	593.08	0.06	0.02
MH-6022	594.11	(N/A)	(N/A)	(N/A)	593.16	0.04	0.03
MH-6099	594.11	593.09	592.14	(N/A)	592.14	0.94	0.09
MH-4425	594.12	593.11	(N/A)	(N/A)	593.11	0.06	0.03
MH-5624	594.13	593.18	(N/A)	(N/A)	593.14	0.08	0.03
MH-4378	594.13	592.38	(N/A)	(N/A)	592.38	0.13	0.03
MH-6612	594.16	593.21	(N/A)	(N/A)	592.32	0.55	0.07
MH-3731	594.16	591.57	(N/A)	(N/A)	591.57	1.08	0.12
MH-5989	594.17	(N/A)	(N/A)	(N/A)	593.08	0.04	0.02
MH-5252	594.19	592.64	(N/A)	(N/A)	592.64	0.76	0.1
MH-4623	594.23	(N/A)	(N/A)	(N/A)	593.28	0.01	0.02
MH-4624	594.24	593.25	(N/A)	(N/A)	593.25	0.03	0.03
MH-4129	594.26	593.21	591.61	(N/A)	591.61	1.07	0.12
MH-3111	594.35	593.4	(N/A)	(N/A)	593.21	0.06	0.02
MH-5617	594.36	(N/A)	(N/A)	(N/A)	593.41	0.02	0.02
MH-6496	594.36	593.41	(N/A)	(N/A)	593.39	0.75	0.1
MH-6237	594.37	593.29	593.21	591.8	591.57	3.47	0.2
MH-5618	594.38	593.36	(N/A)	(N/A)	593.36	0.04	0.03

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6097	594.39	593.38	(N/A)	(N/A)	593.32	2.11	0.17
MH-4550	594.4	591.66	593.31	(N/A)	591.66	1.03	0.12
MH-5605	594.44	(N/A)	(N/A)	(N/A)	593.49	0.04	0.03
MH-6680	594.5	593.55	(N/A)	(N/A)	593.55	0.28	0.05
MH-5386	594.55	592.51	591.86	(N/A)	591.79	0.92	0.1
MH-5206	594.58	591.72	(N/A)	(N/A)	591.72	0.99	0.11
MH-5089	594.59	593.64	(N/A)	(N/A)	593.21	0.2	0.04
MH-6785	594.63	593.54	(N/A)	(N/A)	593.54	0.46	0.07
MH-6103	594.65	(N/A)	(N/A)	(N/A)	593.7	0.08	0.04
MH-6681	594.65	(N/A)	(N/A)	(N/A)	593.7	0.07	0.04
MH-5753	594.65	(N/A)	(N/A)	(N/A)	593.7	0.16	0.04
MH-4865	594.68	(N/A)	(N/A)	(N/A)	593.21	0.02	0.01
MH-6073	594.68	593.5	(N/A)	(N/A)	593.5	0.13	0.04
MH-6792	594.7	(N/A)	(N/A)	(N/A)	593.75	0.04	0.03
MH-54	594.74	593.79	593.67	(N/A)	593.54	2.69	0.2
MH-53	594.74	593.72	593.53	(N/A)	593.53	4.08	0.2
MH-1514	594.75	593.51	(N/A)	(N/A)	593.13	4.19	0.16
MH-465	594.78	593.7	(N/A)	(N/A)	593.7	2.44	0.16
MH-466	594.78	593.83	593.71	(N/A)	593.71	2.43	0.18
MH-6793	594.8	593.7	592.17	(N/A)	592.17	0.46	0.08
MH-5606	594.82	593.45	(N/A)	(N/A)	593.45	0.08	0.04
MH-4566	594.82	593.87	593.75	(N/A)	593.75	2.35	0.18
MH-5651	594.85	(N/A)	(N/A)	(N/A)	593.61	0.03	0.02
MH-510	594.86	(N/A)	(N/A)	(N/A)	593.91	0.01	0.05
MH-509	594.86	593.91	593.91	593.79	593.79	2.28	0.17
MH-152	594.89	593.81	(N/A)	(N/A)	593.81	2.23	0.17
MH-151	594.89	593.94	593.82	(N/A)	593.82	2.22	0.18
MH-4523	594.93	593.98	(N/A)	(N/A)	593.98	0.09	0.04
MH-81	594.95	593.86	594	(N/A)	593.86	2.16	0.17
MH-82	594.95	593.93	(N/A)	(N/A)	593.88	2.1	0.17
MH-2057	595	594.05	(N/A)	(N/A)	594.05	0.07	0.03
MH-1	595	593.98	(N/A)	(N/A)	593.98	1.37	0.1
MH-6795	595	593.6	(N/A)	(N/A)	592.91	13.14	0.25
MH-5709	595.03	593.8	(N/A)	(N/A)	593.8	3.07	0.13
MH-6194	595.04	592.77	(N/A)	(N/A)	592.77	0.13	0.03
MH-2465	595.06	594.11	594.05	(N/A)	594.05	2.09	0.13
MH-5941	595.07	(N/A)	(N/A)	(N/A)	594.12	0.04	0.03
MH-3800	595.13	(N/A)	(N/A)	(N/A)	594.18	0.03	0.02
MH-8	595.14	593.95	593.64	(N/A)	593.64	0.43	0.07
MH-7	595.14	593.59	(N/A)	(N/A)	593.59	0.43	0.07
MH-5348	595.18	(N/A)	(N/A)	(N/A)	593.78	0.04	0.02
MH-4668	595.27	593.96	(N/A)	(N/A)	593.06	3.06	0.13
MH-2058	595.3	594.16	(N/A)	(N/A)	594.16	0.05	0.02
MH-2464	595.34	594.39	594.39	(N/A)	594.25	0.14	0.04
MH-5710	595.4	593.9	(N/A)	(N/A)	593.9	2.84	0.14
MH-4522	595.44	593.96	(N/A)	(N/A)	593.96	0.11	0.03
MH-5854	595.44	(N/A)	(N/A)	(N/A)	594.49	0.11	0.05
MH-94	595.47	594.09	(N/A)	(N/A)	594.09	0.04	0.04

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-93	595.47	594.52	594.27	594.07	594.07	0.33	0.06
MH-6096	595.49	594.47	(N/A)	(N/A)	593.67	2.08	0.13
MH-1154	595.57	592.3	(N/A)	(N/A)	592.3	0.4	0.07
MH-6535	595.59	(N/A)	(N/A)	(N/A)	593.98	0.06	0.02
MH-4053	595.6	593.35	594.65	(N/A)	593.35	0.2	0.04
MH-3067	595.61	(N/A)	(N/A)	(N/A)	594.66	0.02	0.01
MH-4684	595.61	594.55	594.59	(N/A)	594.36	1.37	0.1
MH-5918	595.62	(N/A)	(N/A)	(N/A)	594.65	0.67	0.09
MH-719	595.68	594.73	593.35	(N/A)	593.35	0.18	0.04
MH-4683	595.69	594.74	594.74	(N/A)	594.74	0.18	0.04
MH-4667	595.77	593.99	(N/A)	(N/A)	593.99	3.02	0.18
MH-3663	595.78	594.83	(N/A)	(N/A)	594.83	0.07	0.03
MH-602	595.79	594.84	(N/A)	(N/A)	594.67	0.13	0.03
MH-338	595.8	594.44	(N/A)	(N/A)	594.44	0.26	0.05
MH-337	595.8	594.85	594.44	594.85	594.44	0.25	0.05
MH-601	595.8	594.85	594.85	(N/A)	594.85	0.12	0.03
MH-3981	595.82	(N/A)	(N/A)	(N/A)	594.87	0.02	0.01
MH-1747	595.82	593.35	(N/A)	(N/A)	593.35	0.12	0.05
MH-3662	595.82	(N/A)	(N/A)	(N/A)	594.87	0.02	0.02
MH-3684	595.84	(N/A)	(N/A)	(N/A)	594.6	0.01	0.01
MH-5400	595.87	(N/A)	(N/A)	(N/A)	594.92	0.08	0.04
MH-5919	596.01	594.47	(N/A)	(N/A)	594.43	0.8	0.09
MH-1523	596.06	595.11	595.05	(N/A)	594.42	1.94	0.13
MH-4678	596.13	594.89	595.18	(N/A)	594.89	0.1	0.04
MH-6516	596.18	(N/A)	(N/A)	(N/A)	595.23	0.07	0.04
MH-6454	596.19	594.12	(N/A)	(N/A)	593.99	2.66	0.17
MH-4643	596.2	595.25	(N/A)	(N/A)	595.25	0.13	0.04
MH-1524	596.22	595.2	595.27	(N/A)	595.12	1.93	0.13
MH-975	596.24	592.64	(N/A)	(N/A)	592.64	0.33	0.06
MH-6245	596.24	592.81	(N/A)	(N/A)	592.81	0.32	0.06
MH-976	596.25	592.59	(N/A)	(N/A)	592.59	0.36	0.06
MH-3893	596.27	(N/A)	(N/A)	(N/A)	595.08	0.01	0.01
MH-6192	596.31	595.36	(N/A)	(N/A)	595.36	0.03	0.02
MH-416	596.32	595.37	595.37	(N/A)	595.14	0.1	0.03
MH-415	596.33	595.38	(N/A)	(N/A)	595.38	0.08	0.03
MH-6180	596.37	(N/A)	(N/A)	(N/A)	595.34	0.04	0.02
MH-473	596.38	594.98	595.43	(N/A)	594.98	0.17	0.04
MH-474	596.38	594.98	(N/A)	(N/A)	594.98	0.18	0.04
MH-5017	596.39	595.38	(N/A)	(N/A)	594.87	1.15	0.1
MH-4052	596.44	593.16	(N/A)	(N/A)	593.16	0.22	0.04
MH-6645	596.45	595.5	(N/A)	(N/A)	593.38	0.32	0.05
MH-5834	596.49	594.1	(N/A)	(N/A)	594.1	12.93	0.25
MH-50	596.5	(N/A)	(N/A)	(N/A)	595.55	0	0.01
MH-49	596.5	595.55	595.55	(N/A)	595.55	0.01	0.01
MH-3369	596.57	595.62	(N/A)	(N/A)	595.49	0.54	0.07
MH-679	596.61	595.66	594.78	(N/A)	594.78	0.21	0.04
MH-680	596.61	594.78	(N/A)	(N/A)	594.78	0.22	0.05
MH-2646	596.62	594.05	(N/A)	(N/A)	594.05	2.98	0.18

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6233	596.67	(N/A)	(N/A)	(N/A)	595.72	0.01	0.01
MH-5804	596.67	594.24	(N/A)	(N/A)	594.24	12.68	0.34
MH-6512	596.7	(N/A)	(N/A)	(N/A)	594.94	0.05	0.02
MH-4377	596.71	595.69	(N/A)	(N/A)	595.12	2.02	0.13
MH-3972	596.71	(N/A)	(N/A)	(N/A)	595.61	0.01	0.01
MH-5696	596.76	594.19	(N/A)	(N/A)	594.19	12.73	0.34
MH-5543	596.8	595.78	595.68	(N/A)	595.61	1.39	0.11
MH-6055	596.82	(N/A)	(N/A)	(N/A)	595.8	0.11	0.03
MH-5695	596.82	594.15	(N/A)	(N/A)	594.15	12.8	0.32
MH-773	596.82	594.26	595.69	(N/A)	594.21	2.49	0.2
MH-1001	596.84	595.87	(N/A)	(N/A)	595.77	1.57	0.14
MH-666	596.85	595.9	(N/A)	(N/A)	595.67	0.07	0.03
MH-665	596.86	595.91	595.91	(N/A)	595.91	0.07	0.02
MH-4371	596.88	595.93	594.6	(N/A)	594.6	0.25	0.05
MH-4698	596.9	595.95	(N/A)	(N/A)	595.95	0.04	0.03
MH-6406	596.93	(N/A)	(N/A)	(N/A)	595.98	0.23	0.05
MH-5352	596.94	(N/A)	(N/A)	(N/A)	595.93	0.01	0.01
MH-4697	596.94	595.92	(N/A)	(N/A)	595.09	0.06	0.02
MH-6060	596.95	(N/A)	(N/A)	(N/A)	595.98	0.03	0.02
MH-5841	596.96	596.01	(N/A)	(N/A)	595.21	0.05	0.02
MH-6588	596.97	(N/A)	(N/A)	(N/A)	594.94	0.12	0.03
MH-6579	597	596.05	(N/A)	(N/A)	596.05	0.31	0.05
MH-1338	597.04	(N/A)	(N/A)	(N/A)	596.09	0.02	0.02
MH-3370	597.05	596.1	(N/A)	(N/A)	595.81	0.53	0.07
MH-351	597.12	594.45	596.17	(N/A)	594.45	0.27	0.05
MH-3971	597.16	(N/A)	(N/A)	(N/A)	596.14	0.01	0.01
MH-1337	597.19	(N/A)	(N/A)	(N/A)	596.24	0.02	0.02
MH-6244	597.21	596.04	592.99	(N/A)	592.99	0.29	0.05
MH-6067	597.25	(N/A)	(N/A)	(N/A)	596.21	0.02	0.01
MH-4376	597.25	596.3	596.24	(N/A)	595.96	1.94	0.13
MH-5378	597.29	596.27	(N/A)	(N/A)	595.76	1.12	0.09
MH-2732	597.33	594.36	596.13	(N/A)	594.11	2.94	0.18
MH-772	597.37	596.42	(N/A)	(N/A)	596.19	0.05	0.02
MH-771	597.38	596.43	596.42	(N/A)	596.42	0.05	0.02
MH-4289	597.41	(N/A)	(N/A)	(N/A)	596.43	0.01	0.01
MH-6311	597.42	596.19	596.47	(N/A)	596.19	3.5	0.21
MH-6198	597.43	596.36	(N/A)	(N/A)	596.23	2.8	0.19
MH-5381	597.45	595.5	(N/A)	(N/A)	595.5	0.33	0.06
MH-6051	597.52	(N/A)	(N/A)	(N/A)	596.47	0.02	0.01
MH-940	597.56	596.61	596.13	(N/A)	596.13	3.9	0.21
MH-5946	597.57	594.46	596.08	(N/A)	594.31	12.53	0.34
MH-3992	597.61	(N/A)	(N/A)	(N/A)	596.66	0.01	0.01
MH-6330	597.65	(N/A)	(N/A)	(N/A)	596.7	0.12	0.05
MH-5645	597.66	596.71	(N/A)	(N/A)	596.71	0.06	0.04
MH-5399	597.67	595.37	596.72	(N/A)	595.31	1.28	0.14
MH-346	597.72	594.62	(N/A)	(N/A)	594.62	8.52	0.33
MH-345	597.72	594.62	596.74	(N/A)	594.62	8.48	0.33
MH-5320	597.76	594.66	(N/A)	(N/A)	594.66	6.97	0.32

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-5297	597.88	596.68	596.93	(N/A)	596.66	2.65	0.12
MH-270	597.91	596.96	596.96	(N/A)	596.72	0.03	0.02
MH-269	597.91	596.96	(N/A)	(N/A)	596.96	0.02	0.01
MH-756	597.96	594.76	(N/A)	(N/A)	594.76	0.18	0.04
MH-5398	598.02	597.07	(N/A)	(N/A)	597.07	0.92	0.1
MH-755	598.03	594.38	597.08	(N/A)	594.38	0.69	0.08
MH-2376	598.04	596.87	(N/A)	(N/A)	596.87	0.49	0.08
MH-6794	598.06	597.11	(N/A)	(N/A)	597.04	0.63	0.08
MH-3950	598.07	(N/A)	(N/A)	(N/A)	597.12	0.01	0.01
MH-6639	598.08	(N/A)	(N/A)	(N/A)	595.66	0.02	0.01
MH-6240	598.09	(N/A)	(N/A)	(N/A)	596.59	0.02	0.01
MH-6644	598.11	(N/A)	(N/A)	(N/A)	595.63	0.03	0.02
MH-6331	598.13	596.63	595.23	(N/A)	595.18	1.47	0.13
MH-687	598.17	(N/A)	(N/A)	(N/A)	597.22	0.03	0.02
MH-688	598.17	597.22	596.56	597.22	596.56	0.24	0.05
MH-5646	598.21	(N/A)	(N/A)	(N/A)	597.14	0.03	0.02
MH-46	598.22	597.15	(N/A)	(N/A)	597.02	2.57	0.13
MH-45	598.22	597.02	(N/A)	(N/A)	597	2.59	0.12
MH-2375	598.23	596.83	(N/A)	(N/A)	596.83	0.51	0.07
MH-4811	598.23	597.27	(N/A)	(N/A)	597.27	0.62	0.08
MH-5536	598.24	597.29	(N/A)	(N/A)	597.29	0.88	0.1
MH-6649	598.28	(N/A)	(N/A)	(N/A)	595.62	0.06	0.02
MH-6493	598.41	594.75	(N/A)	(N/A)	594.75	6.84	0.3
MH-4234	598.43	597.48	(N/A)	(N/A)	597.48	0.31	0.06
MH-5120	598.45	597.43	(N/A)	(N/A)	596.83	1.06	0.09
MH-5458	598.45	(N/A)	(N/A)	(N/A)	597.33	0.04	0.02
MH-4237	598.46	597.51	(N/A)	(N/A)	597.26	0.01	0.01
MH-1289	598.46	597.39	(N/A)	(N/A)	597.39	2.57	0.14
MH-1743	598.47	597.3	(N/A)	(N/A)	597.3	0.32	0.06
MH-2862	598.48	596.95	597.53	(N/A)	596.95	0.49	0.08
MH-1288	598.53	597.45	(N/A)	(N/A)	597.45	2.55	0.14
MH-1744	598.55	597.26	(N/A)	(N/A)	597.26	0.33	0.06
MH-4810	598.56	597.51	597.61	(N/A)	597.51	0.6	0.08
MH-4236	598.59	(N/A)	(N/A)	(N/A)	597.64	0.01	0.01
MH-6391	598.62	(N/A)	(N/A)	(N/A)	597.27	0.15	0.04
MH-92	598.64	597.69	(N/A)	(N/A)	597.69	0.09	0.04
MH-91	598.64	597.62	597.66	(N/A)	597.6	1.03	0.1
MH-6646	598.64	(N/A)	(N/A)	(N/A)	596.89	0	0.01
MH-5893	598.64	597.1	(N/A)	(N/A)	597.1	1.03	0.09
MH-1720	598.72	597.77	(N/A)	(N/A)	597.77	0.13	0.03
MH-5426	598.76	596.6	(N/A)	(N/A)	596.6	0.11	0.05
MH-2863	598.8	597.85	(N/A)	(N/A)	597.69	0.02	0.01
MH-6358	598.8	597.79	(N/A)	(N/A)	596.99	1.4	0.11
MH-1719	598.82	597.69	(N/A)	(N/A)	597.69	0.14	0.04
MH-1170	598.89	594.86	(N/A)	(N/A)	594.86	6.67	0.29
MH-882	598.9	(N/A)	(N/A)	(N/A)	597.95	0.04	0.02
MH-1212	598.9	597.73	597.95	(N/A)	597.73	0.3	0.05
MH-881	598.91	597.93	595.05	597.95	594.87	6.59	0.29

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-2789	598.93	597.98	(N/A)	(N/A)	597.98	0.06	0.02
MH-6232	598.95	598	(N/A)	(N/A)	597.11	0.46	0.07
MH-123	598.95	597.06	598	(N/A)	597.06	0.46	0.07
MH-124	598.95	598	(N/A)	(N/A)	598	0.12	0.03
MH-6563	598.96	(N/A)	(N/A)	(N/A)	597.98	0.72	0.1
MH-783	598.97	597.73	597.99	(N/A)	596.48	1.46	0.12
MH-784	598.99	598.04	(N/A)	(N/A)	598.01	0.68	0.09
MH-74	599	598.04	598.05	(N/A)	598	0.23	0.05
MH-73	599	598.05	(N/A)	(N/A)	598.05	0.17	0.04
MH-4298	599.03	(N/A)	(N/A)	(N/A)	598.08	0.02	0.01
MH-455	599.03	597.86	597.27	(N/A)	597.27	1.01	0.09
MH-6199	599.05	597.98	(N/A)	(N/A)	596.68	2.77	0.14
MH-11	599.09	598.14	598.14	(N/A)	598.14	0.09	0.03
MH-12	599.09	(N/A)	(N/A)	(N/A)	598.14	0.04	0.03
MH-2558	599.2	598.25	(N/A)	(N/A)	598.19	0.06	0.02
MH-6524	599.21	598.26	(N/A)	(N/A)	598.26	0.73	0.08
MH-825	599.23	597.83	598.28	(N/A)	597.83	0.33	0.06
MH-2788	599.24	598.29	(N/A)	(N/A)	598.13	0.04	0.02
MH-1057	599.26	598.31	(N/A)	(N/A)	598.31	0.14	0.04
MH-3482	599.3	597.38	598.35	(N/A)	597.31	0.84	0.1
MH-6193	599.3	(N/A)	(N/A)	(N/A)	598.35	0.01	0.02
MH-4755	599.39	598.44	(N/A)	(N/A)	598.44	0.05	0.03
MH-6410	599.46	595.13	(N/A)	(N/A)	595.13	0.13	0.03
MH-6602	599.48	(N/A)	(N/A)	(N/A)	598.53	0.08	0.03
MH-6222	599.51	598.41	(N/A)	(N/A)	598.41	0.1	0.03
MH-1082	599.55	598.6	598.24	(N/A)	598.24	0.52	0.08
MH-6364	599.56	(N/A)	(N/A)	(N/A)	598.61	0.04	0.02
MH-6440	599.56	598.59	(N/A)	(N/A)	597.58	1.47	0.12
MH-206	599.61	598.66	598.48	598.1	597.97	2.51	0.13
MH-205	599.61	598.63	598.59	(N/A)	598.54	1.9	0.16
MH-6392	599.63	(N/A)	(N/A)	(N/A)	598.68	0.05	0.02
MH-6610	599.63	598.68	(N/A)	(N/A)	598.68	0.08	0.03
MH-3441	599.64	598.41	598.41	(N/A)	598.41	0.15	0.04
MH-6784	599.65	598.7	598.48	(N/A)	598.48	0.36	0.06
MH-28	599.65	598.7	(N/A)	(N/A)	598.7	0.03	0.02
MH-27	599.65	598.7	598.7	(N/A)	598.49	0.05	0.02
MH-2234	599.68	598.73	(N/A)	(N/A)	598.66	0.84	0.09
MH-1666	599.68	598.73	598.28	(N/A)	598.28	0.16	0.04
MH-1883	599.7	(N/A)	(N/A)	(N/A)	598.75	0.02	0.03
MH-6625	599.71	(N/A)	(N/A)	(N/A)	598.76	0.18	0.04
MH-6231	599.71	598.76	(N/A)	(N/A)	598.64	0.4	0.06
MH-78	599.74	598.73	598.79	(N/A)	598.56	0.69	0.08
MH-77	599.74	598.79	(N/A)	(N/A)	598.79	0.24	0.05
MH-6267	599.75	598.8	(N/A)	(N/A)	597.74	0.47	0.07
MH-79	599.79	598.84	(N/A)	(N/A)	598.84	0.04	0.02
MH-80	599.79	598.84	598.74	(N/A)	598.74	0.06	0.04
MH-102	599.79	598.29	(N/A)	(N/A)	598.29	0.11	0.05
MH-101	599.79	598.67	598.29	(N/A)	598.29	0.11	0.05

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-112	599.8	598.85	(N/A)	(N/A)	598.85	0.08	0.03
MH-111	599.8	598.25	598.85	(N/A)	596.17	0.24	0.05
MH-2691	599.86	(N/A)	(N/A)	(N/A)	598.85	0.02	0.01
MH-1975	599.86	598.88	(N/A)	(N/A)	598.88	0.04	0.02
MH-76	599.87	598.92	598.92	(N/A)	598.92	0.08	0.03
MH-75	599.87	598.92	(N/A)	(N/A)	598.92	0.05	0.03
MH-6467	599.92	(N/A)	(N/A)	(N/A)	598.97	0.02	0.02
MH-6377	599.92	598.9	598.81	(N/A)	598.76	4.08	0.17
MH-1974	599.93	598.98	(N/A)	(N/A)	598.98	0.03	0.02
MH-6378	599.96	599.01	(N/A)	(N/A)	598.95	0.95	0.11
MH-2233	599.97	598.09	598.65	(N/A)	598.03	0.9	0.08
MH-202	599.99	(N/A)	(N/A)	(N/A)	599.04	0	0.01
MH-201	599.99	599.04	599.04	599.03	598.97	0.24	0.05
MH-6552	600.02	599.07	(N/A)	(N/A)	597.73	0.32	0.06
MH-5534	600.04	599.09	(N/A)	(N/A)	599.02	1.21	0.1
MH-6620	600.04	599.09	(N/A)	(N/A)	598.99	0.06	0.02
MH-3628	600.05	(N/A)	(N/A)	(N/A)	598.91	0.03	0.02
MH-14	600.05	598.7	(N/A)	(N/A)	598.7	0.08	0.04
MH-13	600.05	598.7	599.1	(N/A)	598.7	0.07	0.04
MH-5267	600.07	599.1	(N/A)	(N/A)	599.09	0.74	0.08
MH-5545	600.08	(N/A)	(N/A)	(N/A)	599.13	0.04	0.03
MH-4943	600.12	599.17	(N/A)	(N/A)	598.24	0.66	0.08
MH-4658	600.13	599.18	(N/A)	(N/A)	599.18	0.04	0.02
MH-2270	600.15	598.69	(N/A)	(N/A)	598.69	0.09	0.04
MH-1880	600.15	599.2	(N/A)	(N/A)	599.15	0.22	0.05
MH-5975	600.16	599.21	(N/A)	(N/A)	598.27	0.21	0.04
MH-1659	600.17	599.22	599.22	(N/A)	598.68	0.05	0.02
MH-2028	600.21	(N/A)	(N/A)	(N/A)	599.26	0.01	0.02
MH-2604	600.26	599.31	(N/A)	(N/A)	599.31	0.22	0.04
MH-336	600.32	599.25	(N/A)	(N/A)	599.25	0.01	0.01
MH-335	600.32	599.19	599.25	(N/A)	599.19	0.04	0.02
MH-5863	600.32	(N/A)	(N/A)	(N/A)	599.37	0.04	0.03
MH-3721	600.33	(N/A)	(N/A)	(N/A)	599.3	0.01	0.01
MH-1658	600.35	599.4	(N/A)	(N/A)	599.31	0.02	0.01
MH-4792	600.38	599.43	598.88	(N/A)	598.88	0.82	0.09
MH-2	600.39	599.37	(N/A)	(N/A)	599.1	2.91	0.16
MH-3755	600.43	599.48	(N/A)	(N/A)	599.48	0.06	0.03
MH-6606	600.46	599.51	(N/A)	(N/A)	599.04	0.11	0.03
MH-70	600.47	599.52	599.52	599.52	598.96	0.12	0.03
MH-69	600.47	(N/A)	(N/A)	(N/A)	599.52	0.01	0.01
MH-4902	600.49	(N/A)	(N/A)	(N/A)	599.42	0.01	0.01
MH-5535	600.5	598.71	(N/A)	(N/A)	598.71	1.32	0.1
MH-4316	600.51	599.56	599.56	(N/A)	599.31	0.44	0.06
MH-6635	600.53	599.58	(N/A)	(N/A)	599.07	0.14	0.04
MH-5955	600.62	(N/A)	(N/A)	(N/A)	599.67	0.01	0.01
MH-638	600.62	599.29	599.67	(N/A)	599.29	0.42	0.06
MH-2588	600.63	599.68	599.34	(N/A)	599.1	0.16	0.04
MH-3710	600.64	599.69	(N/A)	(N/A)	599.69	0.02	0.02

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6323	600.64	599.69	(N/A)	(N/A)	599.51	0.33	0.06
MH-4062	600.73	(N/A)	(N/A)	(N/A)	599.46	0.01	0.01
MH-389	600.76	599.63	599.81	(N/A)	599.63	0.21	0.04
MH-390	600.76	599.81	(N/A)	(N/A)	599.81	0.12	0.03
MH-1646	600.77	599.46	599.82	(N/A)	599.46	0.15	0.04
MH-6638	600.87	599.92	(N/A)	(N/A)	599.92	0.17	0.04
MH-3809	600.88	(N/A)	(N/A)	(N/A)	599.62	0.01	0.01
MH-107	600.9	599.95	599.95	(N/A)	599.91	0.08	0.03
MH-108	600.9	599.95	(N/A)	(N/A)	599.95	0.04	0.02
MH-52	600.91	599.96	599.92	(N/A)	599.77	0.41	0.06
MH-51	600.91	599.96	(N/A)	(N/A)	599.96	0.39	0.07
MH-6367	600.92	(N/A)	(N/A)	(N/A)	599.97	0.02	0.01
MH-5043	600.93	599.98	(N/A)	(N/A)	599.98	0.33	0.06
MH-5544	600.94	599.09	(N/A)	(N/A)	599.09	0.06	0.02
MH-22	600.97	599.67	600.01	(N/A)	599.67	0.09	0.03
MH-21	600.97	600.02	(N/A)	(N/A)	600.02	0.06	0.03
MH-6571	600.98	(N/A)	(N/A)	(N/A)	600.03	0.2	0.04
MH-6264	600.99	(N/A)	(N/A)	(N/A)	600.04	0.02	0.02
MH-5219	600.99	(N/A)	(N/A)	(N/A)	600.04	0.01	0.02
MH-4754	601.03	(N/A)	(N/A)	(N/A)	599.97	0.01	0.01
MH-1150	601.04	600.09	(N/A)	(N/A)	600.06	0.06	0.02
MH-6094	601.07	(N/A)	(N/A)	(N/A)	599.74	0.46	0.07
MH-4973	601.12	(N/A)	(N/A)	(N/A)	600.17	0.01	0.02
MH-3825	601.12	599.93	(N/A)	(N/A)	599.93	0.09	0.03
MH-6350	601.17	600.1	(N/A)	(N/A)	598.81	2.72	0.14
MH-330	601.25	600.3	(N/A)	(N/A)	600.3	0.17	0.04
MH-329	601.25	600.23	600.23	(N/A)	600.07	0.38	0.06
MH-5082	601.25	599.67	(N/A)	(N/A)	599.67	0.71	0.08
MH-6279	601.34	(N/A)	(N/A)	(N/A)	600.15	0.03	0.02
MH-631	601.35	599.97	600.4	(N/A)	599.97	0.24	0.05
MH-5974	601.37	600.42	(N/A)	(N/A)	599.72	0.15	0.04
MH-3317	601.4	(N/A)	(N/A)	(N/A)	600.45	0.01	0.03
MH-6676	601.4	598.93	600.39	(N/A)	598.86	1.15	0.1
MH-4308	601.43	600.48	599.76	600.29	599.76	0.77	0.09
MH-4630	601.45	(N/A)	(N/A)	(N/A)	600.37	0.01	0.01
MH-2843	601.49	600.54	(N/A)	(N/A)	600.54	0.13	0.03
MH-2490	601.52	600.57	(N/A)	(N/A)	600.57	0.11	0.04
MH-6523	601.53	(N/A)	(N/A)	(N/A)	599.29	0.53	0.07
MH-907	601.53	600.11	(N/A)	(N/A)	600.11	0.05	0.03
MH-4744	601.53	600.58	(N/A)	(N/A)	600.55	0.66	0.08
MH-906	601.53	600	600.11	(N/A)	600	0.06	0.04
MH-2491	601.54	600.59	(N/A)	(N/A)	600.59	0.1	0.04
MH-2850	601.58	600.63	(N/A)	(N/A)	600.63	0.07	0.03
MH-225	601.59	600.64	600.64	(N/A)	600.55	0.16	0.04
MH-3584	601.61	599.98	(N/A)	(N/A)	599.98	0.08	0.03
MH-2851	601.62	(N/A)	(N/A)	(N/A)	600.67	0.05	0.03
MH-6037	601.63	(N/A)	(N/A)	(N/A)	600.22	0.01	0.01
MH-1774	601.65	600.43	600.7	(N/A)	600.43	0.2	0.04

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6129	601.66	(N/A)	(N/A)	(N/A)	600.27	0.01	0.01
MH-4959	601.68	(N/A)	(N/A)	(N/A)	600.73	0.02	0.02
MH-479	601.72	600.13	(N/A)	(N/A)	600.13	0.02	0.03
MH-480	601.72	600.13	(N/A)	(N/A)	600.13	0.04	0.03
MH-5361	601.72	(N/A)	(N/A)	(N/A)	600.34	0.03	0.02
MH-5307	601.73	600.78	(N/A)	(N/A)	600.4	0.26	0.05
MH-5900	601.77	(N/A)	(N/A)	(N/A)	600.82	0.05	0.04
MH-636	601.79	600.84	599.18	(N/A)	599.18	0.93	0.09
MH-635	601.79	(N/A)	(N/A)	(N/A)	600.84	0.14	0.04
MH-1773	601.84	600.89	(N/A)	(N/A)	600.79	0.19	0.04
MH-6591	601.85	(N/A)	(N/A)	(N/A)	599.6	0.09	0.03
MH-3	601.85	600.83	(N/A)	(N/A)	599.98	2.87	0.15
MH-5042	601.85	(N/A)	(N/A)	(N/A)	600.28	0.02	0.01
MH-6575	601.85	(N/A)	(N/A)	(N/A)	600.25	0.73	0.08
MH-215	601.85	600.9	(N/A)	(N/A)	600.9	0.1	0.04
MH-216	601.86	600.89	600.91	(N/A)	600.89	0.12	0.03
MH-5081	601.86	599.77	(N/A)	(N/A)	599.77	0.65	0.09
MH-2760	601.88	600.7	(N/A)	(N/A)	600.7	0.03	0.03
MH-5992	601.95	(N/A)	(N/A)	(N/A)	601	0.02	0.02
MH-2761	601.99	600.69	(N/A)	(N/A)	600.69	0.04	0.03
MH-6273	602.02	(N/A)	(N/A)	(N/A)	600.62	0.04	0.02
MH-2542	602.06	600.67	601.11	(N/A)	600.67	0.2	0.04
MH-5434	602.06	601.11	(N/A)	(N/A)	600.25	1.16	0.11
MH-6495	602.07	601.09	(N/A)	(N/A)	599.58	1.33	0.11
MH-3305	602.14	601.19	(N/A)	(N/A)	601.03	0.09	0.03
MH-2398	602.15	601.2	(N/A)	(N/A)	601.02	0.19	0.04
MH-6145	602.16	(N/A)	(N/A)	(N/A)	600.68	0.03	0.02
MH-3237	602.22	601.27	(N/A)	(N/A)	601.15	0.16	0.04
MH-6487	602.23	601.28	(N/A)	(N/A)	600.76	0.11	0.03
MH-5159	602.24	601.29	(N/A)	(N/A)	601.29	0.12	0.03
MH-208	602.25	(N/A)	(N/A)	(N/A)	601.3	0	0.01
MH-207	602.25	601.3	601.3	601.3	601.2	0.02	0.01
MH-4743	602.29	601.34	(N/A)	(N/A)	600.88	0.55	0.07
MH-5160	602.32	(N/A)	(N/A)	(N/A)	601.37	0.03	0.02
MH-2543	602.38	601.23	(N/A)	(N/A)	601.23	0.15	0.04
MH-2567	602.38	(N/A)	(N/A)	(N/A)	601.43	0.02	0.02
MH-3236	602.42	601.47	(N/A)	(N/A)	601.45	0.13	0.03
MH-6415	602.43	601.48	601.48	(N/A)	601.45	0.77	0.1
MH-1877	602.46	(N/A)	(N/A)	(N/A)	601.42	0.01	0.01
MH-4608	602.46	601.51	(N/A)	(N/A)	600.95	0.39	0.06
MH-5433	602.47	601.52	(N/A)	(N/A)	601.51	1.05	0.1
MH-5675	602.48	601.53	(N/A)	(N/A)	601.18	0.02	0.01
MH-2566	602.5	601.42	(N/A)	(N/A)	601.42	0.02	0.02
MH-3870	602.53	(N/A)	(N/A)	(N/A)	601.54	0	0.01
MH-2153	602.54	601.59	(N/A)	(N/A)	601.48	0.09	0.03
MH-6595	602.6	(N/A)	(N/A)	(N/A)	599.64	0.03	0.02
MH-2778	602.61	601.4	(N/A)	(N/A)	601.4	0.03	0.02
MH-897	602.62	601.16	600.94	(N/A)	600.87	0.94	0.09

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-898	602.65	601.18	(N/A)	(N/A)	601.18	0.9	0.1
MH-3012	602.67	601.38	(N/A)	(N/A)	601.38	0.04	0.03
MH-6783	602.69	(N/A)	(N/A)	(N/A)	601.07	0.07	0.02
MH-134	602.73	(N/A)	(N/A)	(N/A)	601.78	0	0.01
MH-133	602.73	601.78	601.36	601.78	601.36	0.15	0.04
MH-303	602.77	(N/A)	(N/A)	(N/A)	601.82	0.01	0.01
MH-304	602.77	601.82	(N/A)	(N/A)	600.62	0.02	0.01
MH-2152	602.8	601.71	(N/A)	(N/A)	601.71	0.08	0.03
MH-6678	602.8	601.85	601.85	(N/A)	601.56	0.18	0.04
MH-2741	602.82	(N/A)	(N/A)	(N/A)	601.87	0.01	0.02
MH-6605	602.91	(N/A)	(N/A)	(N/A)	599.84	0.02	0.01
MH-6119	602.92	599.93	601.22	(N/A)	599.91	0.61	0.09
MH-747	602.95	(N/A)	(N/A)	(N/A)	600.93	0.04	0.02
MH-5447	602.97	601.64	(N/A)	(N/A)	601.64	0.16	0.04
MH-760	602.97	601.88	600.77	(N/A)	600.77	0.49	0.08
MH-5446	602.98	602.03	(N/A)	(N/A)	600.61	0.11	0.03
MH-759	602.98	602.03	(N/A)	(N/A)	602.03	0.42	0.07
MH-5072	602.99	602.04	602.04	(N/A)	602.02	0.15	0.04
MH-4907	603	602.02	(N/A)	(N/A)	602.02	0.08	0.04
MH-569	603	601.99	(N/A)	(N/A)	601.99	0.09	0.04
MH-5330	603	(N/A)	(N/A)	(N/A)	602.05	0.05	0.03
MH-2645	603	601.94	(N/A)	(N/A)	601.94	0.12	0.03
MH-451	603.01	600.67	601.93	(N/A)	600.54	2.66	0.14
MH-2362	603.03	601.96	(N/A)	(N/A)	601.96	0.13	0.03
MH-2363	603.03	602.08	(N/A)	(N/A)	602.08	0.12	0.03
MH-798	603.04	601.23	602.09	(N/A)	601.19	0.89	0.1
MH-2572	603.04	602.09	(N/A)	(N/A)	602.09	0.11	0.05
MH-6439	603.06	601.9	601.9	(N/A)	601.9	0.43	0.07
MH-3297	603.07	602.12	601.77	(N/A)	601.77	0.37	0.06
MH-4133	603.1	602.15	(N/A)	(N/A)	601.22	0.09	0.03
MH-3087	603.1	602.15	(N/A)	(N/A)	602.15	0.09	0.04
MH-730	603.11	600.79	(N/A)	(N/A)	600.79	0.18	0.04
MH-729	603.11	602.16	600.4	(N/A)	600.4	0.42	0.07
MH-2740	603.13	602.18	601.86	(N/A)	601.86	0.08	0.03
MH-6284	603.17	(N/A)	(N/A)	(N/A)	602.22	0.02	0.02
MH-6538	603.18	602.23	602.23	(N/A)	602.17	0.97	0.1
MH-4132	603.18	(N/A)	(N/A)	(N/A)	602.23	0.03	0.02
MH-3088	603.19	(N/A)	(N/A)	(N/A)	602.24	0.07	0.03
MH-6675	603.2	(N/A)	(N/A)	(N/A)	602.25	0.06	0.02
MH-6167	603.21	(N/A)	(N/A)	(N/A)	602.13	0.01	0.01
MH-6609	603.25	(N/A)	(N/A)	(N/A)	599.28	0.02	0.01
MH-6218	603.28	(N/A)	(N/A)	(N/A)	602.33	0.07	0.03
MH-4	603.32	602.3	(N/A)	(N/A)	601.44	2.81	0.15
MH-4518	603.34	602.07	602.39	(N/A)	602.07	0.1	0.03
MH-6677	603.34	602.39	(N/A)	(N/A)	602.39	0.14	0.04
MH-6573	603.39	(N/A)	(N/A)	(N/A)	601.21	0.25	0.05
MH-5832	603.41	602.46	(N/A)	(N/A)	602.46	0.35	0.06
MH-3296	603.44	602.49	602.49	(N/A)	602.3	0.23	0.05

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-20	603.59	602.64	(N/A)	(N/A)	602.64	0.01	0.01
MH-19	603.59	602.64	602.64	(N/A)	602.5	0.04	0.02
MH-843	603.63	602.68	602.64	(N/A)	602.64	0.28	0.05
MH-6309	603.63	602.68	(N/A)	(N/A)	602.68	0.23	0.05
MH-6617	603.66	(N/A)	(N/A)	(N/A)	600.42	0.02	0.01
MH-6526	603.68	(N/A)	(N/A)	(N/A)	602.73	0.07	0.02
MH-71	603.68	602.73	(N/A)	(N/A)	602.73	0.08	0.03
MH-72	603.68	602.73	602.73	(N/A)	602.38	0.1	0.03
MH-5883	603.68	602.3	602.73	(N/A)	602.3	0.26	0.05
MH-1787	603.7	(N/A)	(N/A)	(N/A)	602.75	0.02	0.01
MH-4479	603.77	602.82	(N/A)	(N/A)	602.82	0.27	0.05
MH-2632	603.77	(N/A)	(N/A)	(N/A)	602.82	0.01	0.02
MH-6251	603.89	(N/A)	(N/A)	(N/A)	602.94	0.03	0.02
MH-6619	603.94	(N/A)	(N/A)	(N/A)	600.71	0.03	0.02
MH-4628	603.94	602.68	(N/A)	(N/A)	602.68	0.07	0.02
MH-6437	603.96	(N/A)	(N/A)	(N/A)	603.01	0.06	0.04
MH-5926	603.98	603.03	(N/A)	(N/A)	603.03	0.09	0.03
MH-5884	604	(N/A)	(N/A)	(N/A)	603.05	0.07	0.03
MH-4478	604	(N/A)	(N/A)	(N/A)	603.05	0.21	0.04
MH-2631	604.1	602.81	(N/A)	(N/A)	602.81	0.03	0.02
MH-6549	604.16	(N/A)	(N/A)	(N/A)	602.6	0.01	0.01
MH-522	604.17	603.22	603.22	(N/A)	603	0.07	0.02
MH-521	604.17	603.22	(N/A)	(N/A)	603.22	0.03	0.02
MH-4807	604.18	(N/A)	(N/A)	(N/A)	602.96	0.01	0.01
MH-6157	604.32	(N/A)	(N/A)	(N/A)	603.33	0.01	0.01
MH-511	604.32	602.08	(N/A)	(N/A)	602.08	2.15	0.12
MH-512	604.33	603.35	602.23	(N/A)	602.1	2.13	0.17
MH-5164	604.35	(N/A)	(N/A)	(N/A)	603.37	0.14	0.04
MH-6300	604.35	603.2	(N/A)	(N/A)	602.16	0.5	0.07
MH-3206	604.39	(N/A)	(N/A)	(N/A)	603.4	0.03	0.02
MH-6299	604.39	603.44	(N/A)	(N/A)	603.44	0.43	0.07
MH-6553	604.49	(N/A)	(N/A)	(N/A)	602.59	0.07	0.02
MH-6494	604.5	603.53	(N/A)	(N/A)	602.06	1.22	0.11
MH-6568	604.52	603.51	(N/A)	(N/A)	602.8	2.76	0.15
MH-4093	604.62	602.31	602.79	(N/A)	602.31	0.47	0.08
MH-6328	604.64	(N/A)	(N/A)	(N/A)	603.25	0.04	0.02
MH-6547	604.73	603.78	603.72	(N/A)	603.67	2.62	0.15
MH-6156	604.75	(N/A)	(N/A)	(N/A)	603.8	0.02	0.01
MH-6326	604.76	(N/A)	(N/A)	(N/A)	603.74	0.02	0.01
MH-6379	604.77	603.82	602.61	(N/A)	602.61	0.4	0.07
MH-6474	604.8	603.85	(N/A)	(N/A)	603.39	0.62	0.08
MH-6239	604.83	602.92	(N/A)	(N/A)	602.92	0.13	0.03
MH-744	604.83	603.1	(N/A)	(N/A)	602.88	0.17	0.04
MH-743	604.84	603.89	603.41	(N/A)	603.41	0.15	0.04
MH-5165	604.92	(N/A)	(N/A)	(N/A)	603.52	0.14	0.04
MH-2781	604.96	(N/A)	(N/A)	(N/A)	604.01	0.03	0.03
MH-6555	605.06	(N/A)	(N/A)	(N/A)	603.3	0.04	0.02
MH-5719	605.06	604.11	(N/A)	(N/A)	603.63	0.14	0.04

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-2677	605.1	(N/A)	(N/A)	(N/A)	603.99	0.01	0.01
MH-5227	605.13	603.15	(N/A)	(N/A)	603.15	0.19	0.04
MH-2780	605.18	604.23	603.99	(N/A)	603.99	0.12	0.03
MH-6611	605.19	(N/A)	(N/A)	(N/A)	603.54	0.08	0.03
MH-3035	605.28	603.83	(N/A)	(N/A)	603.83	0.15	0.04
MH-6506	605.3	(N/A)	(N/A)	(N/A)	604.35	0.12	0.03
MH-6548	605.46	604.49	(N/A)	(N/A)	604.49	1.98	0.13
MH-6004	605.64	604.69	604.69	(N/A)	604.27	0.14	0.04
MH-6520	605.64	(N/A)	(N/A)	(N/A)	604.46	0.27	0.05
MH-2184	605.81	604.86	603.42	(N/A)	603.42	0.17	0.04
MH-460	605.88	604.93	(N/A)	(N/A)	604.93	0.07	0.03
MH-5425	605.96	605.01	(N/A)	(N/A)	604.56	0.08	0.03
MH-5858	606.01	(N/A)	(N/A)	(N/A)	604.71	0.08	0.03
MH-267	606.05	(N/A)	(N/A)	(N/A)	605.1	0.01	0.01
MH-6372	606.34	604.5	(N/A)	(N/A)	604.5	0.51	0.07
MH-6510	606.5	(N/A)	(N/A)	(N/A)	605.55	0.32	0.05
MH-5424	606.6	(N/A)	(N/A)	(N/A)	605.4	0.04	0.02
MH-6003	606.7	(N/A)	(N/A)	(N/A)	605.22	0.03	0.02
MH-2703	606.76	605.81	(N/A)	(N/A)	605.81	0.02	0.02
MH-2702	606.79	605.8	(N/A)	(N/A)	605.42	0.04	0.02
MH-6501	606.96	605.98	(N/A)	(N/A)	604.51	1.1	0.1
MH-6208	607.01	606.03	606.06	604.6	604.57	1.62	0.12
MH-3412	607.14	(N/A)	(N/A)	(N/A)	606	0.01	0.01
MH-6429	607.24	606.26	(N/A)	(N/A)	606.26	0.81	0.1
MH-3350	607.27	604.9	(N/A)	(N/A)	604.9	0.29	0.05
MH-6566	607.3	606.32	(N/A)	(N/A)	605.68	1.7	0.13
MH-6537	607.39	(N/A)	(N/A)	(N/A)	606.44	0.13	0.04
MH-6518	607.4	605.48	(N/A)	(N/A)	605.48	0.23	0.05
MH-6569	607.42	606.47	(N/A)	(N/A)	604.89	0.54	0.07
MH-5674	607.46	606.39	606.51	(N/A)	606.39	0.76	0.08
MH-5673	607.51	606.52	(N/A)	(N/A)	606.5	0.54	0.08
MH-6373	607.65	604.64	(N/A)	(N/A)	604.64	0.41	0.07
MH-6134	607.66	606.71	(N/A)	(N/A)	606.71	0.52	0.08
MH-3349	607.66	604.81	(N/A)	(N/A)	604.81	0.34	0.06
MH-5806	607.83	606.88	(N/A)	(N/A)	606.88	0.48	0.07
MH-6486	608.15	(N/A)	(N/A)	(N/A)	607.2	0.15	0.04
MH-5755	608.34	607.39	(N/A)	(N/A)	606.7	0.4	0.06
MH-5807	608.67	607.72	(N/A)	(N/A)	607.16	0.44	0.06
MH-5866	608.81	607.86	(N/A)	(N/A)	607.86	0.14	0.04
MH-5867	608.82	607.46	(N/A)	(N/A)	607.19	0.2	0.04
MH-5367	609.33	608.38	(N/A)	(N/A)	607.85	0.33	0.06
MH-6188	609.76	608.81	(N/A)	(N/A)	608.32	0.38	0.06
MH-6074	609.9	608.95	(N/A)	(N/A)	608.43	0.1	0.03
MH-6196	610.12	(N/A)	(N/A)	(N/A)	609.17	0.06	0.03
MH-355	610.18	608.67	606.4	(N/A)	606.38	0.59	0.08
MH-5366	610.18	609.23	(N/A)	(N/A)	608.77	0.25	0.05
MH-6042	610.29	606.26	(N/A)	(N/A)	606.26	0.88	0.12
MH-6275	610.36	609.41	(N/A)	(N/A)	609.38	0.61	0.09

NODE REPORT ZONE 2,3 & 5 Part - 3R

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-6108	610.42	609.23	(N/A)	(N/A)	609.23	0.34	0.06
MH-6542	610.46	609.26	609.51	(N/A)	607.84	1.31	0.11
MH-6107	610.56	609.6	(N/A)	(N/A)	609.6	0.2	0.04
MH-6287	610.61	(N/A)	(N/A)	(N/A)	609.66	0.1	0.05
MH-6371	610.69	(N/A)	(N/A)	(N/A)	607.81	0.26	0.05
MH-684	610.77	609.15	(N/A)	(N/A)	609.15	0.29	0.05
MH-6515	611	(N/A)	(N/A)	(N/A)	610.05	0.06	0.04
MH-6482	611	609.95	(N/A)	(N/A)	609.95	0.14	0.04
MH-5429	611	(N/A)	(N/A)	(N/A)	609.63	0.17	0.04
MH-6276	612.4	611.45	611.45	(N/A)	609.88	0.37	0.06
MH-5916	613.02	612.07	(N/A)	(N/A)	610.64	0.57	0.07
MH-6335	613.83	(N/A)	(N/A)	(N/A)	611.87	0.02	0.01
MH-471	614.03	613.08	613.08	(N/A)	612.57	0.28	0.05
MH-5789	614.07	613.12	(N/A)	(N/A)	612.07	0.06	0.02
MH-1037	614.08	613.13	(N/A)	(N/A)	613.13	0.06	0.02
MH-5830	614.46	(N/A)	(N/A)	(N/A)	613.49	0.01	0.01
MH-721	614.76	613.81	(N/A)	(N/A)	613.43	0.04	0.02
MH-1078	614.79	613.84	(N/A)	(N/A)	613.84	0.02	0.02
MH-5629	615.01	(N/A)	(N/A)	(N/A)	614.03	0.01	0.01
MH-6223	615.19	614.24	(N/A)	(N/A)	613.71	0.19	0.04
MH-6411	615.43	(N/A)	(N/A)	(N/A)	614.48	0.05	0.02

OUTFALL REPORT 2,3 & 5 Part - 3R

ID	Label	Elevation (Ground) (m)	Elevation (Invert) (m)	Hydraulic Grade (m)	Flow (Total Out) (MLD)
690	OF-1	553.43	551.43	551.43	106.456

ZONE – IV

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-32	MH-183	MH-87	579.6	579.54	576.5	576.4	29.3	217	0.8	291	2.6236	1.1058	2.9	2.88	2.92	44.8	0.01	HDPE
CO-31	MH-3	MH-524	556.46	556.97	548.01	547.92	64.4	600	0.98	750	22.3748	14.0565	8.2	7.86	8.45	56.7	0.011	Concrete
CO-30	MH-211	MH-475	555.18	555.48	548.59	548.43	115.2	500	0.93	750	13.7597	11.8028	6.3	6.09	6.55	70	0.011	Concrete
CO-29	MH-33	MH-89	566.08	565.54	564.63	564.27	92.2	217	0.8	257	2.7904	0.9396	1.1	1.23	1.05	39.9	0.01	HDPE
CO-27	MH-37	MH-391	565.42	564.35	564.21	563.34	123.5	217	1.01	141	3.7736	0.9722	0.9	0.99	0.8	37.3	0.01	HDPE
CO-25	MH-45	MH-47	562.79	562.78	560.38	560.35	7.2	217	0.8	320	2.5034	1.2695	2.2	2.2	2.21	49.8	0.01	HDPE
CO-23	MH-82	MH-17	571.68	571.97	570.08	569.97	78.1	150	0.27	750	0.555	0.0925	1.6	1.45	1.84	27.7	0.011	HDPE
CO-21	MH-257	MH-14	581.05	580.9	578.19	577.96	30.3	150	0.8	130	1.3312	0.4469	2.8	2.71	2.8	43.8	0.011	HDPE
CO-19	MH-117	MH-6	579.33	579.29	576.05	575.96	24.7	217	0.8	295	2.6068	1.1269	3.1	3.07	3.11	48	0.01	HDPE
CO-18	MH-9	MH-23	580.36	580.26	579.18	579.14	27.8	150	0.16	750	0.555	0.0143	1	1.04	0.97	11.4	0.011	HDPE
CO-15	MH-329	MH-8	580.19	580.33	579.24	579.19	44.3	150	0.29	750	0.555	0.1189	0.9	0.8	1	28.2	0.011	HDPE
CO-13	MH-28	MH-308	579.91	579.78	578.96	578.83	45.1	150	0.41	374	0.7865	0.1631	0.8	0.8	0.8	28.7	0.011	HDPE
CO-12	MH-39	MH-40	559.9	559.9	553.54	553.53	6.8	150	0.47	750	0.6105	0.5997	6.2	6.22	6.22	79.6	0.01	HDPE
CO-10	MH-515	MH-297	565.93	566.27	564.98	564.77	153.6	150	0.21	750	0.555	0.0349	1.1	0.8	1.34	44.5	0.011	HDPE
CO-8	MH-292	MH-279	560.48	560.41	555.1	554.88	35.2	150	0.8	163	1.3087	0.4685	5.3	5.24	5.38	44.8	0.01	HDPE
CO-7	MH-531	MH-483	561.8	561.64	559.56	559.47	62.5	217	0.59	750	1.6342	1.4424	2	2.02	1.95	60.2	0.01	HDPE
CO-6	MH-404	MH-531	561.96	561.8	559.75	559.56	64.8	217	0.8	325	2.4818	1.3035	2	1.99	2.02	60.8	0.01	HDPE
CO-3	MH-298	MH-3	556.5	556.46	548.14	548.11	27.4	500	0.93	750	13.7597	11.8477	7.9	7.86	7.86	56.8	0.011	HDPE
CO-2	MH-534	OF-1	550.5	549.85	545.39	545.36	19.4	700	1.13	750	33.7507	25.2022	4.1	4.41	3.79	52.4	0.011	HDPE
CO-1	MH-362	MH-342	555.81	555.87	551.34	550.82	64.5	150	0.8	125	1.3615	0.4223	4.6	4.32	4.89	42.6	0.011	HDPE
z4co-493	MH-477	MH-410	577.55	576.91	576.25	574.06	586.8	217	0.8	267	2.7392	0.9803	1.9	1.08	2.63	47.1	0.01	HDPE
z4co-543	MH-551	MH-548	561.07	558.59	558.05	555.71	495.2	175	0.8	212	1.7343	0.6878	2.8	2.84	2.7	46	0.01	HDPE
z4co-491	MH-530	MH-492	554	552.27	546.56	545.91	491.1	600	1.03	750	22.3748	17.4396	6.3	6.84	5.77	61.2	0.011	HDPE
z4co-254	MH-555	MH-519	563.39	563.03	562.32	561.4	377.2	271	0.8	412	3.9908	1.8577	1.1	0.8	1.36	48.2	0.01	HDPE
z4co-540	MH-554	MH-428	564.36	563.1	563.41	560.49	346.3	150	0.8	118	1.3976	0.3919	1.6	0.8	2.46	45.2	0.011	HDPE
z4co-556	MH-553	MH-223	560.42	563.85	559.47	559.02	332.5	150	0.29	750	0.555	0.1149	2.7	0.8	4.67	40.3	0.011	HDPE
z4co-535	MH-545	MH-1	560.87	559.39	558.96	558.19	323.2	400	0.98	420	10.1421	5.7616	1.2	1.51	0.8	49.7	0.011	HDPE
z4co-537	MH-543	MH-535	558.69	556.12	552.37	551.94	320.7	400	0.8	750	7.5889	6.6114	4.8	5.92	3.78	71.1	0.011	HDPE
z4co-554	MH-552	MH-355	560.46	563.31	559.51	558.95	291.1	150	0.16	521	0.6657	0.0088	2.5	0.8	4.21	30.6	0.011	HDPE
z4co-280	MH-518	MH-549	554.82	554.8	552.76	552.38	284.4	400	0.81	750	7.5889	7.1364	1.8	1.66	2.02	77	0.011	HDPE
z4co-542	MH-537	MH-551	562.15	561.07	559.49	558.05	281.8	175	0.8	196	1.8009	0.6183	2.7	2.49	2.84	43.5	0.01	HDPE
z4co-464	MH-245	MH-473	558.41	557.9	555.67	555.01	280.1	271	0.8	427	3.9186	1.9577	2.5	2.48	2.62	50.8	0.01	HDPE
z4co-264	MH-550	MH-339	555	556.06	553.93	553.27	249.6	271	0.87	377	4.1697	2.3088	1.7	0.8	2.52	56.4	0.01	HDPE
z4co-281	MH-549	MH-547	554.8	554.93	552.38	552.05	247.2	400	0.81	750	7.5889	7.4475	2.3	2.02	2.48	65.6	0.011	HDPE
z4co-257	MH-528	MH-459	561.72	560.97	558.39	557.89	241.8	271	0.8	481	3.6913	2.3679	2.9	3.06	2.81	58.1	0.01	HDPE
z4co-544	MH-548	MH-484	558.59	556.7	555.71	554.65	241	175	0.8	228	1.6703	0.7665	2.3	2.7	1.87	48.2	0.01	HDPE
z4co-282	MH-547	MH-503	554.93	555	551.95	551.63	238.2	500	0.85	750	13.7597	7.6159	2.7	2.48	2.87	52.5	0.011	HDPE
z4co-534	MH-483	MH-545	561.64	560.87	559.29	558.96	234.7	400	0.8	706	7.8223	5.6945	1.7	1.95	1.51	57.8	0.011	HDPE
z4co-255	MH-436	MH-527	562.77	562.28	559.28	558.77	233.8	271	0.8	458	3.7833	2.1833	3.2	3.22	3.24	54.5	0.01	HDPE
z4co-499	MH-498	MH-523	572.8	571.3	571.73	570.23	231.2	271	1.3	154	6.5226	2.9722	0.8	0.8	0.8	54.5	0.01	HDPE
z4co-546	MH-485	MH-408	555.56	554.7	554.15	551.93	229	175	1.11	103	2.4839	0.861	1.9	1.23	2.59	45.2	0.01	HDPE
z4co-530	MH-539	MH-317	568.58	567.1	567.38	565.9	226.2	400	1.24	153	16.8184	3.4237	0.8	0.8	0.8	32.7	0.011	HDPE
z4co-179	MH-544	MH-451	563.08	563.74	562.13	561.83	226.1	150	0.2	750	0.555	0.0292	1.3	0.8	1.76	18.2	0.011	HDPE
z4co-536	MH-1	MH-543	559.39	558.69	552.67	552.37	225.4	400	0.8	750	7.5889	6.5029	6.1	6.31	5.92	70.5	0.011	HDPE
z4co-496	MH-411	MH-538	576.41	574.97	573.86	573.43	221.9	271	0.8	520	3.5515	2.7277	1.8	2.28	1.26	58.4	0.01	HDPE
z4co-494	MH-349	MH-410	578.41	576.91	575.06	574.06	239.1	217	0.95	238	2.9044	1.6264	2.9	3.13	2.63	53.2	0.01	HDPE
z4co-262	MH-533	MH-529	558.87	558.92	556.85	556.57	209.5	271	0.69	750	2.9557	2.7403	1.9	1.75	2.08	63.3	0.01	HDPE
z4co-457	MH-542	MH-294	559.6	559.46	558.58	557.93	204.9	217	0.8	314	2.5246	1.2374	1.1	0.8	1.31	49.2	0.01	HDPE
z4co-419	MH-457	MH-416	556.03	555.91	555.08	553.07	202	150	0.8	101	1.5162	0.3214	1.7	0.8	2.69	38.2	0.011	HDPE
z4co-462	MH-496	MH-419	558.44	558.45	556.52	555.92	201.8	217	0.8	338	2.4361	1.3809	2	1.71	2.32	53.5	0.01	HDPE
z4co-290	MH-506	MH-530	556.69	554	546.83	546.56	200.5	600	0.99	750	22.3748	14.5679	8	9.26	6.84	61.7	0.011	HDPE
z4co-532	MH-511	MH-482	565.3	562.83	563.64	561.63	200.2	400	1.53	100	20.7858	4.2267	1	1.27	0.8	34.7	0.011	HDPE
z4co-555	MH-541	MH-326	560.73	562.75	559.78	558.89	199.7	150	0.25	223	1.0171	0.0152	2.3	0.8	3.71	23.4	0.011	HDPE
z4co-251	MH-540	MH-470	561.08	561.49	560.13	559.86	198.7	150	0.24	750	0.555	0.0603	1.1	0.8	1.48	25.4	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-286	MH-525	MH-520	557.45	558.04	547.69	547.43	198.1	600	0.99	750	22.3748	14.1564	9.6	9.16	10.01	57.1	0.011	HDPE
z4co-524	MH-494	MH-513	570.45	569.55	567.88	567.62	196.3	150	0.46	750	0.6105	0.5608	2.1	2.41	1.78	61.6	0.01	HDPE
z4co-503	MH-463	MH-539	569.55	568.58	568.15	567.38	208	400	1	270	12.6497	3.336	0.9	0.99	0.8	34.9	0.011	HDPE
z4co-497	MH-538	MH-497	574.97	573.59	573.43	572.52	189.3	271	1.14	206	5.6349	2.759	1	1.26	0.8	52.9	0.01	HDPE
z4co-539	MH-408	MH-492	554.7	552.27	551.71	551.07	188	400	1.2	296	12.0743	7.5818	1.7	2.59	0.8	54.9	0.011	HDPE
z4co-88	MH-484	MH-476	579.11	577.95	578.16	577	186.2	150	0.3	160	1.2014	0.0195	0.8	0.8	0.8	30.5	0.011	HDPE
z4co-541	MH-28	MH-537	563.1	562.15	560.49	559.51	182.6	150	0.8	188	1.2203	0.5721	2.5	2.46	2.49	48.6	0.01	HDPE
z4co-459	MH-295	MH-480	559.45	558.82	557.81	557.25	181	217	0.8	323	2.4914	1.2881	1.4	1.43	1.35	50.8	0.01	HDPE
z4co-260	MH-536	MH-532	560.01	559.08	557.33	557.09	180.3	271	0.68	750	2.9557	2.5895	2.1	2.41	1.72	72.1	0.01	HDPE
z4co-259	MH-460	MH-536	560.65	560.01	557.69	557.33	179	271	0.8	496	3.635	2.4975	2.5	2.69	2.41	65.6	0.01	HDPE
z4co-538	MH-535	MH-408	556.12	554.7	551.94	551.71	177.6	400	0.8	750	7.5889	6.6476	3.2	3.78	2.59	63.9	0.011	HDPE
z4co-261	MH-532	MH-533	559.08	558.87	557.09	556.85	177	271	0.68	750	2.9557	2.6685	1.7	1.72	1.75	73.8	0.01	HDPE
z4co-199	MH-158	MH-531	563.48	561.8	562.53	560.85	178.5	150	0.61	106	1.4756	0.1314	0.8	0.8	0.8	21.5	0.011	HDPE
z4co-263	MH-529	MH-530	558.92	554	554.68	552.93	175.2	271	1.5	100	8.0956	2.7932	2.4	3.97	0.8	46.3	0.01	HDPE
z4co-256	MH-527	MH-528	562.28	561.72	558.77	558.39	174.7	271	0.8	468	3.7416	2.2625	3.2	3.24	3.06	56.4	0.01	HDPE
z4co-248	MH-423	MH-436	562.15	562.77	559.63	559.4	173.8	150	0.33	750	0.555	0.1884	2.8	2.38	3.22	33.7	0.011	HDPE
z4co-504	MH-524	MH-306	577.04	576.03	576.09	575.08	172.4	150	0.43	170	1.1672	0.0733	0.8	0.8	0.8	18.7	0.011	HDPE
z4co-285	MH-524	MH-525	556.97	557.45	547.92	547.69	171.7	600	0.99	750	22.3748	14.0772	8.8	8.45	9.16	56.8	0.011	HDPE
z4co-500	MH-523	MH-514	571.3	570.37	570.23	569.3	175.5	271	1.21	188	5.9107	3.028	0.8	0.8	0.8	55	0.01	HDPE
z4co-230	MH-137	MH-486	562	562.5	560.85	560.63	167	150	0.31	750	0.555	0.1401	1.4	1	1.72	35.8	0.011	HDPE
z4co-320	MH-40	MH-384	559.9	559.56	553.53	553.31	165.5	150	0.47	750	0.6105	0.6081	6.2	6.22	6.1	65.5	0.01	HDPE
z4co-454	MH-500	MH-386	557.16	556.47	555.27	554.95	165.4	400	0.8	524	9.0792	3.5746	1.3	1.49	1.12	43.1	0.011	HDPE
z4co-479	MH-522	MH-438	560.96	560.52	560.01	559.57	160.3	150	0.27	366	0.7949	0.0351	0.8	0.8	0.8	15.3	0.011	HDPE
z4co-204	MH-488	MH-238	564.81	563.14	561.13	560.56	160	217	0.8	282	2.6637	1.0605	2.9	3.46	2.36	42.8	0.01	HDPE
z4co-564	MH-521	MH-340	561.83	560.94	560.88	559.99	159.7	150	0.31	181	1.1314	0.026	0.8	0.8	0.8	13.6	0.011	HDPE
z4co-427	MH-254	MH-479	556.17	555.65	549.21	548.93	156.8	400	0.8	576	8.6642	4.0864	6.4	6.56	6.32	47.8	0.011	HDPE
z4co-287	MH-520	MH-517	558.04	556.12	547.43	547.22	156.5	600	0.99	750	22.3748	14.2748	9.2	10.01	8.3	57.3	0.011	HDPE
z4co-253	MH-519	MH-437	563.03	562.88	561.4	561.04	156.4	271	0.8	426	3.9244	1.9497	1.5	1.36	1.57	49.3	0.01	HDPE
z4co-279	MH-433	MH-518	555.26	554.82	552.97	552.76	155.9	400	0.81	750	7.5889	7.0352	1.8	1.89	1.66	75.1	0.011	HDPE
z4co-288	MH-517	MH-505	556.12	556.37	547.22	547.01	155.5	600	0.99	750	22.3748	14.3771	8.5	8.3	8.75	57.6	0.011	HDPE
z4co-451	MH-205	MH-489	558.14	557.85	556.05	555.75	150.9	400	0.8	510	9.2056	3.4423	1.7	1.7	1.7	42	0.011	HDPE
z4co-522	MH-139	MH-493	571.53	570.98	569.52	568.6	150.6	150	0.8	163	1.3091	0.4681	2	1.86	2.24	45.6	0.01	HDPE
z4co-501	MH-514	MH-462	570.37	569.57	569.3	568.5	150	271	1.22	187	5.9188	3.0814	0.8	0.8	0.8	52.9	0.01	HDPE
z4co-525	MH-513	MH-466	569.55	568.95	567.6	566.83	149.1	175	0.8	195	1.805	0.6145	1.9	1.78	1.95	42.6	0.01	HDPE
z4co-472	MH-508	MH-396	559.61	559.31	558.66	558.36	146.2	150	0.41	480	0.694	0.2273	0.8	0.8	0.8	42.2	0.011	HDPE
z4co-466	MH-474	MH-449	557.3	557.02	554.77	554.45	145.5	271	0.8	454	3.7989	2.1552	2.3	2.26	2.31	53.5	0.01	HDPE
z4co-490	MH-147	MH-255	580.11	579.7	577.22	576.71	145.1	217	0.8	284	2.6576	1.0671	2.7	2.68	2.77	44	0.01	HDPE
z4co-470	MH-512	MH-507	560.53	560.14	559.58	559.19	144.9	150	0.42	372	0.7883	0.1738	0.8	0.8	0.8	31.4	0.011	HDPE
z4co-531	MH-317	MH-511	567.1	565.3	564.84	563.64	144	400	1.43	119	19.0252	4.185	1.6	1.86	1.27	39.1	0.011	HDPE
z4co-222	MH-510	MH-33	565.85	566.08	564.9	564.7	140.8	150	0.19	711	0.5699	0.0261	1	0.8	1.23	13.6	0.011	HDPE
z4co-353	MH-509	MH-378	558.41	559.38	557.46	557.03	140.4	150	0.21	330	0.837	0.0144	1.5	0.8	2.2	13.2	0.011	HDPE
z4co-471	MH-507	MH-508	560.14	559.61	559.19	558.66	139.9	150	0.49	266	0.9312	0.2016	0.8	0.8	0.8	35.1	0.011	HDPE
z4co-289	MH-505	MH-506	556.37	556.69	547.01	546.83	137	600	0.99	750	22.3748	14.4679	9	8.75	9.26	57.9	0.011	HDPE
z4co-562	MH-504	MH-58	561.38	560.76	560.43	559.81	136.8	150	0.14	219	1.0271	0.0021	0.8	0.8	0.8	11.3	0.011	HDPE
z4co-354	MH-502	MH-379	558.56	559.46	557.61	556.96	134	150	0.31	204	1.0635	0.0305	1.6	0.8	2.35	18	0.011	HDPE
z4co-527	MH-467	MH-445	568.32	567.62	566.32	565.68	133.9	175	0.8	208	1.75	0.6717	1.8	1.82	1.77	44.6	0.01	HDPE
z4co-547	MH-492	MH-501	552.27	552.2	545.81	545.64	128.2	700	1.13	750	33.7507	25.0998	5.8	5.77	5.86	63.1	0.011	HDPE
z4co-453	MH-490	MH-500	557.57	557.16	555.51	555.27	127	400	0.8	518	9.1303	3.5223	1.6	1.66	1.49	42.8	0.011	HDPE
z4co-563	MH-499	MH-304	561.2	560.67	560.25	559.72	127	150	0.18	239	0.9829	0.0063	0.8	0.8	0.8	14.4	0.011	HDPE
z4co-498	MH-497	MH-498	573.59	572.8	572.52	571.73	126.1	271	1.27	161	6.3846	2.9105	0.8	0.8	0.8	53.9	0.01	HDPE
z4co-245	MH-464	MH-428	563.02	563.1	561.72	560.49	125.7	150	0.52	102	1.5059	0.0759	1.8	1.16	2.46	33.6	0.011	HDPE
z4co-461	MH-481	MH-496	558.77	558.44	556.9	556.52	125.6	217	0.8	331	2.459	1.3417	1.7	1.65	1.71	52.6	0.01	HDPE
z4co-561	MH-495	MH-252	561.46	560.84	560.51	559.89	123.4	150	0.17	197	1.0822	0.0036	0.8	0.8	0.8	11.5	0.011	HDPE
z4co-523	MH-493	MH-494	570.98	570.45	568.6	567.88	123.1	150	0.8	172	1.2754	0.5039	2.3	2.24	2.41	60.3	0.01	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-344	MH-188	MH-492	553.42	552.27	552.47	551.32	122.9	150	0.43	107	1.47	0.0418	0.8	0.8	0.8	12.2	0.011	HDPE
z4co-507	MH-491	MH-108	574.98	574.32	574.03	573.37	121.8	150	0.28	186	1.1157	0.0193	0.8	0.8	0.8	8.9	0.011	HDPE
z4co-452	MH-489	MH-490	557.85	557.57	555.75	555.51	121.2	400	0.8	514	9.1638	3.4857	1.7	1.7	1.66	42.4	0.011	HDPE
z4co-361	MH-399	MH-402	574.05	574.63	572.72	572.56	120.7	150	0.17	750	0.555	0.018	1.6	1.18	1.92	26.2	0.011	HDPE
z4co-203	MH-391	MH-488	564.35	564.81	561.56	561.13	120.5	217	0.8	279	2.6777	1.0459	3	2.58	3.46	43.1	0.01	HDPE
z4co-232	MH-487	MH-261	565.27	564.04	564.29	563.09	119.8	150	0.4	100	1.52	0.0297	0.8	0.83	0.8	12	0.011	HDPE
z4co-231	MH-486	MH-116	562.5	562.71	560.63	560.47	118.9	150	0.33	750	0.555	0.1724	1.9	1.72	2.1	39.4	0.011	HDPE
z4co-219	MH-325	MH-43	566.16	566.41	565.21	565.05	118.8	150	0.37	750	0.555	0.2823	1	0.8	1.21	45.5	0.011	HDPE
z4co-545	MH-484	MH-485	556.7	555.56	554.65	554.15	118.7	175	0.8	237	1.6373	0.8116	1.6	1.87	1.23	49.7	0.01	HDPE
z4co-533	MH-482	MH-483	562.83	561.64	561.6	560.44	116.3	400	1.53	100	20.7858	4.2477	0.8	0.83	0.8	34.8	0.011	HDPE
z4co-481	MH-439	MH-407	560.16	559.64	559.21	558.69	115.8	150	0.43	223	1.0173	0.0996	0.8	0.8	0.8	21.7	0.011	HDPE
z4co-460	MH-480	MH-481	558.82	558.77	557.25	556.9	115.4	217	0.8	328	2.4727	1.319	1.5	1.35	1.65	51.6	0.01	HDPE
z4co-448	MH-260	MH-347	558.47	558.2	556.42	556.19	114	400	0.8	502	9.2765	3.3804	1.6	1.65	1.6	41.4	0.011	HDPE
z4co-428	MH-479	MH-210	555.65	555.22	548.93	548.74	113.1	400	0.8	579	8.6406	4.1185	6.2	6.32	6.09	51.6	0.011	HDPE
z4co-557	MH-478	MH-289	560.35	560.82	559.4	559.25	112.8	150	0.11	750	0.555	0.004	1.1	0.8	1.42	5	0.011	HDPE
z4co-492	MH-476	MH-477	577.95	577.55	577	576.32	111.5	150	0.8	166	1.1813	0.6305	0.9	0.8	1.08	51.8	0.011	HDPE
z4co-284	MH-475	MH-472	555.48	555.94	548.43	548.29	111.2	500	0.93	750	13.7597	11.8226	6.9	6.55	7.16	69.6	0.011	HDPE
z4co-465	MH-473	MH-474	557.9	557.3	555.01	554.77	109	271	0.8	448	3.8259	2.1088	2.4	2.62	2.26	52.7	0.01	HDPE
z4co-191	MH-461	MH-39	560.31	559.9	559.11	558.95	107.6	150	0.3	683	0.5815	0.1071	0.9	1.05	0.8	24.8	0.011	HDPE
z4co-267	MH-431	MH-278	555	555.23	553.66	553.43	107.5	400	0.8	461	9.6766	3.0077	1.2	0.94	1.4	37.9	0.011	HDPE
z4co-483	MH-472	MH-298	555.94	556.5	548.29	548.14	107.2	500	0.93	750	13.7597	11.8413	7.5	7.16	7.86	66.3	0.011	HDPE
z4co-489	MH-450	MH-3	556.98	556.46	554.24	554.07	80	271	0.8	461	3.7709	2.2063	2.3	2.47	2.12	50.3	0.01	HDPE
z4co-512	MH-471	MH-341	575.21	575.7	574.26	574.12	105.4	150	0.14	750	0.555	0.0102	1.1	0.8	1.43	9.2	0.011	HDPE
z4co-250	MH-470	MH-424	561.49	561.86	559.86	559.72	104.6	150	0.28	750	0.555	0.1028	1.7	1.48	1.98	31.3	0.011	HDPE
z4co-514	MH-469	MH-328	574.48	575	573.53	573.39	104.4	150	0.11	750	0.555	0.0042	1.1	0.8	1.46	21.8	0.011	HDPE
z4co-355	MH-345	MH-334	558.6	559.3	557.25	557.11	102.9	150	0.15	750	0.555	0.0117	1.6	1.19	2.04	11	0.011	HDPE
z4co-526	MH-466	MH-467	568.95	568.32	566.83	566.32	102.4	175	0.8	201	1.7787	0.6404	1.9	1.95	1.82	43.6	0.01	HDPE
z4co-558	MH-465	MH-348	560.29	560.71	559.34	559.2	101.5	150	0.11	750	0.555	0.0039	1.1	0.8	1.35	4.9	0.011	HDPE
z4co-246	MH-453	MH-464	562.99	563.02	561.85	561.72	101.3	150	0.23	750	0.555	0.048	1.1	0.98	1.16	18.6	0.011	HDPE
z4co-502	MH-462	MH-463	569.57	569.55	568.37	568.15	100.3	400	0.8	471	9.5748	3.1013	0.9	0.8	0.99	36.7	0.011	HDPE
z4co-193	MH-19	MH-461	560.5	560.31	559.24	559.11	99.8	150	0.27	750	0.555	0.0894	1.1	1.1	1.05	27.8	0.011	HDPE
z4co-258	MH-459	MH-460	560.97	560.65	557.89	557.69	99.7	271	0.8	490	3.6579	2.4428	2.8	2.81	2.69	59.4	0.01	HDPE
z4co-265	MH-277	MH-339	555.48	556.06	553.35	553.14	99.3	400	0.8	465	9.6396	3.0492	2.1	1.73	2.52	55.7	0.011	HDPE
z4co-42	MH-458	MH-413	580.36	581.01	579.41	579.28	98.6	150	0.12	750	0.555	0.0052	1.2	0.8	1.58	8	0.011	HDPE
z4co-418	MH-430	MH-457	556.24	556.03	555.29	555.08	98.3	150	0.43	476	0.6969	0.2616	0.8	0.8	0.8	39.3	0.011	HDPE
z4co-513	MH-456	MH-231	574.95	575.43	574	573.87	98.1	150	0.12	750	0.555	0.0064	1.1	0.8	1.41	11.4	0.011	HDPE
z4co-242	MH-455	MH-443	563.04	563.13	562.09	561.96	97.6	150	0.18	750	0.555	0.0213	0.9	0.8	1.02	17.2	0.011	HDPE
z4co-247	MH-454	MH-453	562.93	562.99	561.98	561.85	97.5	150	0.19	750	0.555	0.0247	0.9	0.8	0.98	16.9	0.011	HDPE
z4co-316	MH-271	MH-39	560.19	559.9	554.11	553.54	95.5	150	0.8	168	1.2914	0.4875	6.1	5.93	6.22	62.6	0.01	HDPE
z4co-416	MH-452	MH-429	556.85	556.48	555.9	555.53	94.2	150	0.48	259	0.9452	0.1737	0.8	0.8	0.8	31.3	0.011	HDPE
z4co-180	MH-451	MH-392	563.74	564.02	561.83	561.71	93.3	150	0.24	750	0.555	0.0549	2	1.76	2.16	22	0.011	HDPE
z4co-467	MH-449	MH-450	557.02	556.98	554.45	554.24	92.4	271	0.8	458	3.7813	2.187	2.4	2.31	2.47	54	0.01	HDPE
z4co-549	MH-448	MH-326	563.81	562.75	562.72	561.8	91.1	150	0.3	100	1.52	0.0113	0.9	0.94	0.8	6.4	0.011	HDPE
z4co-169	MH-447	MH-51	566.67	566.41	565.72	565.1	90.7	150	0.8	148	1.2499	0.5329	1	0.8	1.16	54	0.011	HDPE
z4co-308	MH-446	MH-355	564.33	563.31	563.26	562.36	90.3	150	0.32	100	1.52	0.0143	0.9	0.92	0.8	7.2	0.011	HDPE
z4co-528	MH-445	MH-316	567.62	567.15	565.68	565.26	89.3	175	0.8	214	1.7241	0.6986	1.7	1.77	1.71	45.2	0.01	HDPE
z4co-474	MH-397	MH-442	559.36	559.1	558.28	557.51	87.9	150	0.8	114	1.426	0.3717	1.2	0.93	1.45	40.5	0.011	HDPE
z4co-518	MH-109	MH-371	574.23	573.81	572.46	572.34	87.8	150	0.35	750	0.555	0.2218	1.5	1.63	1.32	43.6	0.011	HDPE
z4co-243	MH-443	MH-427	563.13	563.1	561.96	561.84	86.3	150	0.24	750	0.555	0.0553	1.1	1.02	1.11	23.1	0.011	HDPE
z4co-475	MH-442	MH-373	559.1	558.85	557.51	556.79	85.7	150	0.8	120	1.3851	0.402	1.7	1.45	1.9	42.1	0.011	HDPE
z4co-421	MH-417	MH-361	555.81	555.83	552.48	551.75	85.5	150	0.8	117	1.4068	0.3904	3.6	3.18	3.93	41.2	0.011	HDPE
z4co-445	MH-441	MH-422	558	558	556.8	556.63	85.3	400	0.8	495	9.3389	3.3146	0.9	0.8	0.97	40.8	0.011	HDPE
z4co-198	MH-440	MH-29	560.88	560.58	559.93	559.63	84.9	150	0.2	278	0.9122	0.0101	0.8	0.8	0.8	13.9	0.011	HDPE
z4co-480	MH-438	MH-439	560.52	560.16	559.57	559.21	84.2	150	0.36	234	0.9929	0.0601	0.8	0.8	0.8	18.7	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-319	MH-384	MH-1	559.56	559.39	553.28	552.9	82.6	175	0.8	214	1.7259	0.6967	6.2	6.1	6.31	44.3	0.01	HDPE
z4co-506	MH-307	MH-426	575.8	575.34	574.85	574.39	82	150	0.49	178	1.1389	0.1144	0.8	0.8	0.8	22.5	0.011	HDPE
z4co-130	MH-310	MH-349	578.69	578.41	575.31	575.06	81.5	217	0.8	337	2.4399	1.3741	3.1	3.17	3.13	52.9	0.01	HDPE
z4co-252	MH-437	MH-436	562.88	562.77	561.04	560.85	79.7	271	0.8	429	3.9101	1.9706	1.6	1.57	1.65	46.6	0.01	HDPE
z4co-550	MH-435	MH-302	562.69	561.86	561.68	560.91	77.5	150	0.28	100	1.52	0.0093	0.8	0.86	0.8	5.8	0.011	HDPE
z4co-202	MH-434	MH-364	565.47	564.71	564.52	563.76	75.9	150	0.5	100	1.52	0.0619	0.8	0.8	0.8	14.7	0.011	HDPE
z4co-415	MH-372	MH-433	555.65	555.26	553.07	552.97	75.7	400	0.81	750	7.5889	7.0064	2	2.18	1.89	74.6	0.011	HDPE
z4co-268	MH-432	MH-431	555	555	553.8	553.66	75.6	400	0.8	553	9.7232	2.9725	0.9	0.8	0.94	37.6	0.01	HDPE
z4co-417	MH-429	MH-430	556.48	556.24	555.53	555.29	75.2	150	0.48	310	0.8627	0.2199	0.8	0.8	0.8	37.9	0.011	HDPE
z4co-208	MH-390	MH-400	562.61	562.29	560.17	559.95	73.8	217	0.8	322	2.4947	1.2829	2.2	2.22	2.13	50.3	0.01	HDPE
z4co-200	MH-363	MH-158	564.18	563.48	563.23	562.53	73.2	150	0.51	105	1.4819	0.0718	0.8	0.8	0.8	20.1	0.011	HDPE
z4co-212	MH-367	MH-380	564.25	563.53	562.95	562.58	73.2	150	0.23	197	1.0816	0.0111	1	1.15	0.8	7.8	0.011	HDPE
z4co-47	MH-409	MH-12	582.21	581.74	580.6	580.5	72.9	150	0.31	750	0.555	0.1528	1.3	1.46	1.09	37.7	0.011	HDPE
z4co-244	MH-427	MH-428	563.1	563.1	561.84	561.75	72.5	150	0.26	750	0.555	0.0789	1.2	1.11	1.2	21.5	0.011	HDPE
z4co-511	MH-426	MH-328	575.34	575	574.39	574.05	71.5	150	0.47	212	1.0446	0.129	0.8	0.8	0.8	23.2	0.011	HDPE
z4co-515	MH-328	MH-402	575	574.63	573.39	573.3	70.7	150	0.32	750	0.555	0.1694	1.3	1.46	1.19	31.9	0.011	HDPE
z4co-249	MH-424	MH-423	561.86	562.15	559.72	559.63	69.4	150	0.31	750	0.555	0.1398	2.2	1.98	2.38	36.7	0.011	HDPE
z4co-446	MH-422	MH-259	558	558.46	556.63	556.49	68.7	400	0.8	498	9.3115	3.3429	1.3	0.97	1.57	41	0.011	HDPE
z4co-9	MH-421	MH-303	562.15	561.62	561.2	560.67	68.4	150	0.22	127	1.3501	0.0051	0.8	0.8	0.8	4.5	0.011	HDPE
z4co-551	MH-420	MH-344	561.78	561.34	560.83	560.39	68.1	150	0.2	154	1.2267	0.005	0.8	0.8	0.8	4.5	0.011	HDPE
z4co-463	MH-419	MH-245	558.45	558.41	555.92	555.72	67.9	217	0.8	341	2.4245	1.4017	2.4	2.32	2.48	51.4	0.01	HDPE
z4co-277	MH-394	MH-372	555.68	555.65	554.57	554.48	67.2	150	0.36	750	0.555	0.2576	1	0.95	1.01	40	0.011	HDPE
z4co-96	MH-152	MH-6	579.72	579.29	578.77	578.34	67.1	150	0.56	158	1.209	0.1667	0.8	0.8	0.8	25.5	0.011	HDPE
z4co-420	MH-416	MH-417	555.91	555.81	553.07	552.48	66.4	150	0.8	113	1.4289	0.3699	2.9	2.69	3.18	40.1	0.011	HDPE
z4co-274	MH-415	MH-350	556.5	556.21	555.55	555.26	66	150	0.51	226	1.0122	0.1827	0.8	0.8	0.8	27.9	0.011	HDPE
z4co-359	MH-414	MH-399	574.4	574.05	573.45	573.1	65.8	150	0.21	191	1.0996	0.0079	0.8	0.8	0.8	5.8	0.011	HDPE
z4co-43	MH-413	MH-387	581.01	581.43	579.28	579.2	64.6	150	0.14	750	0.555	0.0099	1.8	1.58	2.08	10.2	0.011	HDPE
z4co-276	MH-412	MH-389	556.76	556.4	555.81	555.45	64.1	150	0.24	176	1.1453	0.0111	0.8	0.8	0.8	7.5	0.011	HDPE
z4co-495	MH-410	MH-411	576.91	576.41	574	573.86	72.6	271	0.8	510	3.5842	2.6328	2.5	2.63	2.28	63.7	0.01	HDPE
z4co-49	MH-382	MH-409	582.07	582.21	580.68	580.6	63.4	150	0.19	750	0.555	0.0259	1.3	1.23	1.46	25	0.011	HDPE
z4co-335	MH-227	MH-408	555.02	554.7	554.07	553.75	63.1	150	0.36	201	1.071	0.0456	0.8	0.8	0.8	13.7	0.011	HDPE
z4co-482	MH-407	MH-397	559.64	559.36	558.69	558.28	63.1	150	0.52	153	1.2293	0.1228	0.9	0.8	0.93	31	0.011	HDPE
z4co-46	MH-388	MH-11	581.59	581.74	579.12	579.04	59.9	150	0.17	750	0.555	0.0179	2.4	2.32	2.55	26.5	0.011	HDPE
z4co-134	MH-268	MH-358	578.98	578.54	578.03	577.59	62.4	150	0.63	141	1.2785	0.2144	0.8	0.8	0.8	30.1	0.011	HDPE
z4co-325	MH-334	MH-378	559.3	559.38	557.11	557.03	62.3	150	0.17	750	0.555	0.0174	2.1	2.04	2.2	14.7	0.011	HDPE
z4co-102	MH-309	MH-354	580.62	580.19	579.67	579.24	62.1	150	0.57	145	1.2628	0.1495	0.8	0.8	0.8	25	0.011	HDPE
z4co-552	MH-406	MH-315	561.47	561.05	560.52	560.1	61.9	150	0.17	148	1.2488	0.0029	0.8	0.8	0.8	3.4	0.011	HDPE
z4co-399	MH-110	MH-160	572.36	572.08	571.41	570.86	61.7	150	0.29	113	1.4281	0.0118	0.9	0.8	1.07	22.4	0.011	HDPE
z4co-197	MH-405	MH-19	560.28	560.5	559.33	559.24	61.7	150	0.09	750	0.555	0.0024	1	0.8	1.1	15.8	0.011	HDPE
z4co-209	MH-403	MH-404	562.29	561.96	559.95	559.75	61.7	217	0.8	324	2.4885	1.2928	2.1	2.13	1.99	50.6	0.01	HDPE
z4co-227	MH-332	MH-288	561.96	562.07	561.01	560.93	61.1	150	0.26	750	0.555	0.0786	0.9	0.8	0.99	25.5	0.011	HDPE
z4co-516	MH-402	MH-108	574.63	574.32	572.56	572.48	61	150	0.34	750	0.555	0.1942	1.8	1.92	1.69	41.6	0.011	HDPE
z4co-553	MH-401	MH-280	561.23	560.91	560.28	559.96	60.5	150	0.16	194	1.0915	0.0032	0.8	0.8	0.8	3.8	0.011	HDPE
z4co-360	MH-400	MH-399	573.75	574.05	572.8	572.72	60.4	150	0.09	750	0.555	0.0023	1	0.8	1.18	8.4	0.011	HDPE
z4co-8	MH-304	MH-29	560.67	560.58	559.72	559.63	60.4	150	0.26	680	0.5831	0.0697	0.8	0.8	0.8	21.7	0.011	HDPE
z4co-473	MH-396	MH-397	559.31	559.36	558.36	558.28	59.6	150	0.36	750	0.555	0.2424	0.9	0.8	0.93	42.6	0.011	HDPE
z4co-125	MH-6	MH-131	579.29	579.13	575.96	575.78	59.6	217	0.8	325	2.4844	1.2995	3.1	3.11	3.14	50.8	0.01	HDPE
z4co-2	MH-337	MH-340	561.23	560.94	560.28	559.99	59.5	150	0.25	207	1.0563	0.0153	0.8	0.8	0.8	12.6	0.011	HDPE
z4co-278	MH-395	MH-394	555.6	555.68	554.65	554.57	59.2	150	0.36	750	0.555	0.2527	0.9	0.8	0.95	47	0.011	HDPE
z4co-241	MH-393	MH-15	564.23	563.64	563.28	562.69	59.2	150	0.15	102	1.5081	0.0011	0.8	0.8	0.8	8.5	0.011	HDPE
z4co-178	MH-392	MH-391	564.02	564.35	561.71	561.63	58.1	150	0.25	750	0.555	0.066	2.4	2.16	2.58	20.1	0.011	HDPE
z4co-140	MH-8	MH-28	580.33	579.91	579.19	578.96	53.9	150	0.47	235	0.9915	0.1421	0.9	1	0.8	27.9	0.011	HDPE
z4co-207	MH-47	MH-390	562.78	562.61	560.35	560.17	57.1	217	0.8	320	2.5018	1.2719	2.2	2.21	2.22	50	0.01	HDPE
z4co-137	MH-308	MH-305	579.78	579.4	578.83	578.45	57	150	0.59	147	1.2524	0.1739	0.8	0.8	0.8	26.9	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-275	MH-389	MH-196	556.4	556.05	555.45	555.1	56.8	150	0.28	164	1.1851	0.0161	0.8	0.8	0.8	8	0.011	HDPE
z4co-149	MH-119	MH-329	580.6	580.19	579.65	579.24	56.5	150	0.52	139	1.2898	0.1073	0.8	0.8	0.8	26	0.011	HDPE
z4co-44	MH-387	MH-388	581.43	581.59	579.2	579.12	56.3	150	0.16	750	0.555	0.0151	2.2	2.08	2.32	11.7	0.011	HDPE
z4co-455	MH-386	MH-253	556.47	556.32	554.95	554.85	56.1	400	0.8	525	9.0716	3.5977	1.1	1.12	1.07	43.3	0.011	HDPE
z4co-173	MH-297	MH-33	566.27	566.08	564.75	564.67	55.4	175	0.52	750	0.9208	0.8972	1.3	1.34	1.23	63.7	0.01	HDPE
z4co-345	MH-385	MH-301	555.31	555.22	554.36	554.27	55.8	150	0.09	610	0.6154	0.0015	0.8	0.8	0.8	4.4	0.011	HDPE
z4co-327	MH-379	MH-384	559.46	559.56	556.96	556.88	55.7	150	0.26	750	0.555	0.0747	2.4	2.35	2.52	21	0.011	HDPE
z4co-50	MH-383	MH-382	581.71	582.07	580.76	580.68	55.7	150	0.09	750	0.555	0.0023	1	0.8	1.23	9.6	0.011	HDPE
z4co-272	MH-350	MH-239	556.21	555.95	554.75	554.58	55.1	217	0.8	334	2.4501	1.3568	1.2	1.25	1.16	52.5	0.01	HDPE
z4co-322	MH-381	MH-370	559.56	559.65	558.61	558.54	55	150	0.09	750	0.555	0.0025	0.9	0.8	0.96	6	0.011	HDPE
z4co-213	MH-380	MH-220	563.53	563.04	562.58	562.07	54.8	150	0.34	106	1.474	0.0177	0.8	0.8	0.82	8.6	0.011	HDPE
z4co-326	MH-378	MH-379	559.38	559.46	557.03	556.96	54.7	150	0.21	750	0.555	0.0373	2.3	2.2	2.35	20.9	0.011	HDPE
z4co-54	MH-377	MH-12	581.87	581.74	580.92	580.5	54.1	150	0.65	132	1.3253	0.2213	0.9	0.8	1.09	35.1	0.011	HDPE
z4co-56	MH-376	MH-285	581.19	580.84	580.24	579.89	53.8	150	0.23	156	1.2155	0.0088	0.8	0.8	0.8	9.2	0.011	HDPE
z4co-519	MH-202	MH-177	572.55	572.3	571.6	571.35	53.7	150	0.6	221	1.0234	0.318	0.8	0.8	0.8	37.4	0.011	HDPE
z4co-374	MH-357	MH-311	573.38	573.11	572.43	572.11	53.1	150	0.22	167	1.1745	0.008	0.8	0.8	0.85	19.3	0.011	HDPE
z4co-60	MH-369	MH-257	581.39	581.05	578.6	578.19	53	150	0.8	130	1.3338	0.4446	2.7	2.64	2.71	43.6	0.011	HDPE
z4co-476	MH-373	MH-353	558.85	558.71	556.79	556.38	52.9	150	0.8	127	1.3491	0.4319	2	1.9	2.19	44	0.011	HDPE
z4co-414	MH-339	MH-372	556.06	555.65	553.14	553.07	52.8	400	0.81	750	7.5889	6.743	2.4	2.52	2.18	73.8	0.011	HDPE
z4co-53	MH-11	MH-369	581.74	581.39	579.04	578.6	52.5	150	0.8	119	1.3933	0.3953	2.6	2.55	2.64	42.2	0.011	HDPE
z4co-59	MH-286	MH-35	580.59	580.47	579.64	579.52	51.9	150	0.43	433	0.7304	0.2193	0.8	0.8	0.8	33.6	0.011	HDPE
z4co-365	MH-371	MH-291	573.81	573.58	572.34	572.27	51.8	150	0.35	750	0.555	0.2257	1.2	1.32	1.16	44	0.011	HDPE
z4co-323	MH-370	MH-40	559.65	559.9	558.54	558.47	51.5	150	0.12	750	0.555	0.0059	1.1	0.96	1.28	6	0.011	HDPE
z4co-51	MH-368	MH-369	581.49	581.39	580.54	580.44	51.2	150	0.26	496	0.6824	0.046	0.8	0.8	0.8	15.5	0.011	HDPE
z4co-211	MH-366	MH-367	563.97	564.25	563.02	562.95	51.1	150	0.13	750	0.555	0.0071	1	0.8	1.15	7.5	0.011	HDPE
z4co-236	MH-365	MH-249	565.09	564.59	564.14	563.64	51.1	150	0.2	100	1.5171	0.0028	0.8	0.8	0.8	3.2	0.011	HDPE
z4co-338	MH-69	MH-63	554.59	554.29	553.64	553.34	51	150	0.21	166	1.179	0.007	0.8	0.8	0.8	5.9	0.011	HDPE
z4co-401	MH-125	MH-111	572.69	572.45	571.69	571.5	50.9	150	0.19	267	0.9311	0.0079	0.8	0.85	0.8	6.6	0.011	HDPE
z4co-201	MH-364	MH-363	564.71	564.18	563.73	563.23	50.9	150	0.51	100	1.52	0.0675	0.8	0.83	0.8	16.8	0.011	HDPE
z4co-306	MH-323	MH-302	562.27	561.86	558.48	558.03	50.6	150	0.8	111	1.4396	0.3633	3.7	3.64	3.68	39.5	0.011	HDPE
z4co-314	MH-223	MH-355	563.85	563.31	559.02	558.95	50.5	150	0.37	750	0.555	0.2848	4.4	4.67	4.21	51.7	0.011	HDPE
z4co-163	MH-299	MH-28	580.11	579.91	579.09	578.96	51.4	150	0.21	391	0.7687	0.0185	0.8	0.87	0.8	20.6	0.011	HDPE
z4co-292	MH-230	MH-264	560.79	560.7	559.84	559.75	50.5	150	0.15	566	0.639	0.0091	0.8	0.8	0.8	9	0.011	HDPE
z4co-142	MH-338	MH-8	580.52	580.33	579.57	579.19	50.2	150	0.33	132	1.3249	0.0209	0.9	0.8	1	17.2	0.011	HDPE
z4co-422	MH-361	MH-362	555.83	555.81	551.75	551.34	50.1	150	0.8	122	1.3756	0.4102	4.1	3.93	4.32	42	0.011	HDPE
z4co-297	MH-76	MH-213	560.54	560.76	559.57	559.5	50	150	0.19	750	0.555	0.0253	1	0.83	1.11	15.9	0.011	HDPE
z4co-225	MH-360	MH-331	562.57	562.23	561.62	561.28	49.7	150	0.26	146	1.2601	0.0108	0.8	0.8	0.8	8.3	0.011	HDPE
z4co-311	MH-359	MH-215	565.36	564.78	564.32	563.83	49.5	150	0.47	100	1.52	0.0501	0.8	0.89	0.8	13.3	0.011	HDPE
z4co-425	MH-321	MH-296	555.85	556.03	550.13	549.75	49.3	150	0.8	131	1.3264	0.4513	5.9	5.57	6.13	44	0.011	HDPE
z4co-133	MH-358	MH-106	578.54	578.18	577.59	577.23	49.2	150	0.64	139	1.2879	0.2234	0.8	0.8	0.8	37.7	0.011	HDPE
z4co-375	MH-61	MH-357	573.62	573.38	572.67	572.43	49	150	0.19	201	1.0716	0.0062	0.8	0.8	0.8	5.6	0.011	HDPE
z4co-560	MH-356	MH-348	560.88	560.71	559.93	559.76	48.8	150	0.16	287	0.8974	0.0045	0.8	0.8	0.8	4.7	0.011	HDPE
z4co-309	MH-355	MH-326	563.31	562.75	558.95	558.89	48.6	150	0.38	750	0.555	0.3152	4	4.21	3.71	45.7	0.011	HDPE
z4co-101	MH-354	MH-153	580.19	579.87	579.24	578.92	48.8	150	0.56	151	1.239	0.154	0.8	0.8	0.8	25.6	0.011	HDPE
z4co-358	MH-241	MH-271	560.13	560.19	559.09	559.03	48.1	150	0.11	750	0.555	0.0047	0.9	0.88	1.01	5.4	0.011	HDPE
z4co-15	MH-348	MH-352	560.71	560.59	555.81	555.45	48	150	0.8	133	1.317	0.4602	4.9	4.74	4.99	44.4	0.011	HDPE
z4co-477	MH-353	MH-244	558.71	558.53	556.38	556.09	47.9	150	0.8	165	1.3003	0.4775	2.2	2.19	2.29	45.5	0.01	HDPE
z4co-16	MH-352	MH-292	560.59	560.48	555.45	555.1	47.7	150	0.8	134	1.3129	0.4642	5.1	4.99	5.24	44.6	0.011	HDPE
z4co-273	MH-351	MH-350	555.92	556.21	554.9	554.75	47.7	217	0.8	302	2.5737	1.1714	1	0.8	1.25	49.6	0.01	HDPE
z4co-395	MH-67	MH-203	572.94	572.69	571.84	571.74	47.5	150	0.43	480	0.6941	0.269	0.9	0.95	0.8	38.1	0.011	HDPE
z4co-131	MH-105	MH-349	578.25	578.41	577.21	577.15	46.9	150	0.36	750	0.555	0.2386	1	0.89	1.11	38.4	0.011	HDPE
z4co-14	MH-289	MH-348	560.82	560.71	556.17	555.81	46.9	150	0.8	131	1.3294	0.4486	4.6	4.5	4.74	44	0.011	HDPE
z4co-10	MH-303	MH-344	561.62	561.34	557.67	557.27	46.7	150	0.8	115	1.4158	0.384	3.9	3.79	3.92	40.5	0.011	HDPE
z4co-449	MH-347	MH-204	558.2	558.23	556.19	556.1	46.7	400	0.8	505	9.2517	3.4061	1.7	1.6	1.73	41.6	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-356	MH-346	MH-345	558.26	558.6	557.31	557.25	46.7	150	0.12	750	0.555	0.0065	1	0.8	1.19	8.8	0.011	HDPE
z4co-13	MH-280	MH-289	560.91	560.82	556.53	556.17	46.5	150	0.8	129	1.3395	0.4397	4.4	4.23	4.5	43.5	0.011	HDPE
z4co-11	MH-344	MH-315	561.34	561.05	557.27	556.88	46.5	150	0.8	118	1.3976	0.3918	4	3.92	4.02	40.9	0.011	HDPE
z4co-404	MH-343	MH-52	572.87	573	571.92	571.86	46.3	150	0.09	750	0.555	0.0021	0.9	0.8	0.99	18.3	0.011	HDPE
z4co-168	MH-327	MH-269	579.32	579.13	578.37	578.18	46.3	150	0.24	234	0.9938	0.0137	0.8	0.8	0.8	18.9	0.011	HDPE
z4co-423	MH-342	MH-320	555.87	555.84	550.82	550.46	46.1	150	0.8	127	1.3478	0.4329	5.1	4.89	5.23	43.1	0.011	HDPE
z4co-508	MH-341	MH-231	575.7	575.43	574.12	573.87	45.8	150	0.28	186	1.1158	0.0192	1.4	1.43	1.41	12.1	0.011	HDPE
z4co-3	MH-340	MH-252	560.94	560.84	559.99	559.89	45.7	150	0.27	433	0.7303	0.0466	0.8	0.8	0.8	17.9	0.011	HDPE
z4co-269	MH-196	MH-339	556.05	556.06	554.4	554.27	45.7	217	0.8	337	2.4372	1.3794	1.5	1.44	1.58	50.8	0.01	HDPE
z4co-143	MH-77	MH-338	580.85	580.52	579.8	579.57	45.2	150	0.27	197	1.082	0.0188	0.8	0.9	0.8	9.1	0.011	HDPE
z4co-1	MH-336	MH-337	561.49	561.23	560.54	560.28	45.2	150	0.23	174	1.1521	0.0095	0.8	0.8	0.8	7.4	0.011	HDPE
z4co-157	MH-335	MH-94	580.73	580.43	579.78	579.48	44.8	150	0.23	148	1.2502	0.0083	0.8	0.8	0.8	6.3	0.011	HDPE
z4co-324	MH-333	MH-334	559.22	559.3	558.27	558.21	44.8	150	0.09	750	0.555	0.0019	0.9	0.8	0.94	3.5	0.011	HDPE
z4co-226	MH-331	MH-332	562.23	561.96	561.28	561.01	44.6	150	0.32	164	1.1883	0.0255	0.8	0.8	0.8	17.6	0.011	HDPE
z4co-510	MH-232	MH-328	575.26	575	573.83	573.39	44.3	150	0.4	100	1.5195	0.0317	1.4	1.28	1.46	24.3	0.011	HDPE
z4co-167	MH-128	MH-327	579.48	579.32	578.53	578.37	44.2	150	0.2	280	0.9082	0.0099	0.8	0.8	0.8	7.7	0.011	HDPE
z4co-310	MH-326	MH-323	562.75	562.27	558.89	558.48	44.1	150	0.8	108	1.4648	0.348	3.7	3.71	3.64	38.7	0.011	HDPE
z4co-217	MH-324	MH-325	566.24	566.16	565.29	565.21	44.1	150	0.42	548	0.6492	0.2774	0.8	0.8	0.8	47.4	0.011	HDPE
z4co-305	MH-314	MH-323	562.8	562.27	561.76	561.32	44.1	150	0.29	100	1.52	0.011	0.8	0.88	0.8	6.3	0.011	HDPE
z4co-393	MH-209	MH-202	572.71	572.55	571.76	571.6	43.5	150	0.31	277	0.9138	0.0413	0.8	0.8	0.8	26	0.011	HDPE
z4co-413	MH-329	MH-91	572.65	572.43	571.7	571.48	43.4	150	0.11	199	1.0773	0.0009	0.8	0.8	0.8	2.7	0.011	HDPE
z4co-424	MH-320	MH-321	555.84	555.85	550.46	550.13	43.1	150	0.8	129	1.337	0.4418	5.4	5.23	5.57	43.6	0.011	HDPE
z4co-89	MH-319	MH-87	579.26	579.54	578.31	578.26	42.3	150	0.13	750	0.555	0.0069	1	0.8	1.13	6.4	0.011	HDPE
z4co-299	MH-318	MH-287	560.98	560.9	560.03	559.95	42.7	150	0.12	536	0.6565	0.0043	0.8	0.8	0.8	6.4	0.011	HDPE
z4co-529	MH-316	MH-317	567.15	567.1	565.26	565.07	42.5	175	0.8	217	1.7137	0.7103	1.8	1.71	1.86	44.9	0.01	HDPE
z4co-82	MH-212	MH-258	580.18	579.91	579.12	578.96	42.2	150	0.26	275	0.9174	0.0245	0.9	0.92	0.8	10.7	0.011	HDPE
z4co-239	MH-250	MH-31	564.21	563.79	563.26	562.84	41.5	150	0.26	100	1.52	0.0068	0.8	0.81	0.8	9.8	0.011	HDPE
z4co-37	MH-71	MH-82	571.53	571.68	570.13	570.08	41.4	150	0.26	750	0.555	0.0819	1.4	1.25	1.45	26.5	0.011	HDPE
z4co-75	MH-275	MH-212	580.44	580.18	579.49	579.12	40.6	150	0.25	109	1.4587	0.0073	0.9	0.8	0.92	8.3	0.011	HDPE
z4co-12	MH-315	MH-280	561.05	560.91	556.88	556.53	41.1	150	0.8	119	1.3912	0.3969	4.1	4.02	4.23	42.1	0.011	HDPE
z4co-377	MH-311	MH-67	573.11	572.94	572.11	571.84	40.9	150	0.65	152	1.2345	0.2565	0.9	0.85	0.95	37.7	0.011	HDPE
z4co-62	MH-156	MH-14	580.73	580.9	579.7	579.65	40.9	150	0.12	750	0.555	0.0053	1	0.88	1.11	5.7	0.011	HDPE
z4co-304	MH-313	MH-314	563.22	562.8	562.25	561.85	40.8	150	0.27	100	1.52	0.0085	0.8	0.82	0.8	5.6	0.011	HDPE
z4co-373	MH-66	MH-311	573.28	573.11	572.17	572.11	40.8	150	0.36	750	0.555	0.2463	0.9	0.96	0.85	39.4	0.011	HDPE
z4co-73	MH-237	MH-274	580.96	580.68	580.01	579.73	40.6	150	0.18	147	1.2523	0.0035	0.8	0.8	0.8	4.3	0.011	HDPE
z4co-129	MH-226	MH-310	578.81	578.69	575.43	575.31	40.6	217	0.8	334	2.4494	1.3579	3.2	3.17	3.17	52.7	0.01	HDPE
z4co-103	MH-164	MH-309	580.9	580.62	579.95	579.67	40.5	150	0.56	143	1.2724	0.1457	0.8	0.8	0.8	24.6	0.011	HDPE
z4co-505	MH-306	MH-307	576.03	575.8	575.08	574.85	40.3	150	0.47	178	1.1402	0.1008	0.8	0.8	0.8	20.9	0.011	HDPE
z4co-371	MH-48	MH-251	573.7	573.51	572.75	572.56	30.5	150	0.24	158	1.2105	0.0103	0.8	0.8	0.8	7	0.011	HDPE
z4co-136	MH-305	MH-269	579.4	579.13	578.45	578.18	40.2	150	0.59	148	1.249	0.1775	0.8	0.8	0.8	28.4	0.011	HDPE
z4co-99	MH-175	MH-153	579.94	579.87	578.99	578.92	40	150	0.15	523	0.665	0.008	0.8	0.8	0.8	16.8	0.011	HDPE
z4co-6	MH-58	MH-304	560.76	560.67	559.81	559.72	39.8	150	0.29	446	0.7196	0.0598	0.8	0.8	0.8	21.1	0.011	HDPE
z4co-307	MH-302	MH-303	561.86	561.62	558.03	557.67	39.8	150	0.8	114	1.4267	0.376	3.7	3.68	3.79	40.1	0.011	HDPE
z4co-346	MH-301	MH-206	555.22	554.95	554.27	554	39.7	150	0.22	147	1.2519	0.0068	0.8	0.8	0.8	5.9	0.011	HDPE
z4co-362	MH-300	MH-74	573.9	573.76	572.95	572.81	39.7	150	0.18	269	0.9269	0.0063	0.8	0.8	0.8	6.5	0.011	HDPE
z4co-351	MH-256	MH-145	554.12	553.79	553.17	552.84	39.6	150	0.32	119	1.3935	0.0174	0.8	0.8	0.8	8.5	0.011	HDPE
z4co-120	MH-243	MH-267	579.92	579.67	578.97	578.72	39.5	150	0.28	156	1.2176	0.0142	0.8	0.8	0.8	8	0.011	HDPE
z4co-161	MH-23	MH-299	580.26	580.11	579.14	579.09	39.5	150	0.17	750	0.555	0.0172	0.9	0.97	0.87	11.3	0.011	HDPE
z4co-170	MH-43	MH-297	566.41	566.27	565.02	564.75	39.6	175	0.97	145	2.0956	0.8423	1.3	1.21	1.34	62.9	0.01	HDPE
z4co-426	MH-296	MH-254	556.03	556.17	549.75	549.46	39.2	150	0.8	133	1.3205	0.4567	6.3	6.13	6.56	42.1	0.011	HDPE
z4co-458	MH-294	MH-295	559.46	559.45	557.93	557.81	39.1	217	0.8	319	2.5043	1.2677	1.4	1.31	1.43	50	0.01	HDPE
z4co-295	MH-270	MH-75	560.59	560.55	559.64	559.58	39	150	0.18	750	0.555	0.0208	0.8	0.81	0.82	13.4	0.011	HDPE
z4co-366	MH-291	MH-195	573.58	573.42	572.27	572.22	38.5	150	0.35	750	0.555	0.229	1.1	1.16	1.05	44.3	0.011	HDPE
z4co-559	MH-290	MH-289	560.95	560.82	560	559.87	38.5	150	0.13	300	0.8779	0.0026	0.8	0.8	0.8	3.5	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-228	MH-288	MH-136	562.07	562.16	560.93	560.88	38.4	150	0.27	750	0.555	0.0836	1.1	0.99	1.13	26.6	0.011	HDPE
z4co-300	MH-287	MH-180	560.9	560.83	559.95	559.88	38.3	150	0.14	538	0.6552	0.0066	0.8	0.8	0.8	7.7	0.011	HDPE
z4co-57	MH-285	MH-286	580.84	580.59	579.89	579.64	38.2	150	0.37	152	1.2325	0.0039	0.8	0.8	0.8	24.8	0.011	HDPE
z4co-87	MH-283	MH-284	579.35	579.11	578.4	578.16	38.1	150	0.14	160	1.2022	0.0017	0.8	0.8	0.8	5.8	0.011	HDPE
z4co-76	MH-281	MH-247	581.15	580.88	580.2	579.93	37.8	150	0.19	140	1.2846	0.0036	0.8	0.8	0.8	4.3	0.011	HDPE
z4co-298	MH-213	MH-280	560.76	560.91	559.5	559.45	37.3	150	0.21	750	0.555	0.0378	1.2	1.11	1.31	14.9	0.011	HDPE
z4co-186	MH-279	MH-21	560.41	560.39	554.88	554.66	37.2	150	0.8	164	1.3056	0.4718	5.5	5.38	5.58	44.9	0.01	HDPE
z4co-266	MH-278	MH-277	555.23	555.48	553.43	553.35	36.6	400	0.8	465	9.6375	3.0369	1.6	1.4	1.73	38.1	0.011	HDPE
z4co-224	MH-276	MH-37	565.29	565.42	564.34	564.28	36.5	150	0.17	582	0.6298	0.0141	0.9	0.8	0.99	12	0.011	HDPE
z4co-74	MH-274	MH-275	580.68	580.44	579.73	579.49	36.5	150	0.2	151	1.2358	0.0053	0.8	0.8	0.8	5	0.011	HDPE
z4co-27	MH-17	MH-141	571.97	571.9	569.97	569.92	36.4	150	0.28	750	0.555	0.0978	1.8	1.84	1.83	28.2	0.011	HDPE
z4co-336	MH-273	MH-68	554.86	554.69	553.91	553.74	36.3	150	0.15	206	1.0598	0.003	0.8	0.8	0.8	3.9	0.011	HDPE
z4co-341	MH-233	MH-114	554.03	553.75	553.08	552.8	36.2	150	0.3	131	1.3277	0.0158	0.8	0.8	0.8	8.1	0.011	HDPE
z4co-78	MH-248	MH-266	580.64	580.39	579.69	579.44	36	150	0.24	142	1.2773	0.0085	0.8	0.8	0.8	6.2	0.011	HDPE
z4co-328	MH-272	MH-168	555.76	555.72	554.81	554.76	35.8	150	0.2	750	0.555	0.032	0.8	0.8	0.81	13.9	0.011	HDPE
z4co-317	MH-193	MH-271	560.28	560.19	554.32	554.11	35.5	150	0.8	166	1.2982	0.4798	5.9	5.81	5.93	45.4	0.01	HDPE
z4co-294	MH-265	MH-270	560.63	560.59	559.68	559.64	35.5	150	0.17	750	0.555	0.0173	0.8	0.8	0.81	12.5	0.011	HDPE
z4co-135	MH-269	MH-268	579.13	578.98	578.18	578.03	35.3	150	0.51	238	0.9843	0.1938	0.8	0.8	0.8	29.8	0.011	HDPE
z4co-121	MH-267	MH-217	579.67	579.44	578.72	578.49	35.3	150	0.3	153	1.2308	0.018	0.8	0.8	0.8	8.8	0.011	HDPE
z4co-330	MH-169	MH-122	555.54	555.28	554.59	554.33	35.3	150	0.38	134	1.314	0.0363	0.8	0.8	0.8	12.6	0.011	HDPE
z4co-79	MH-266	MH-190	580.39	580.14	579.44	579.19	35.2	150	0.26	143	1.2716	0.0109	0.8	0.8	0.8	8.7	0.011	HDPE
z4co-293	MH-264	MH-265	560.7	560.63	559.75	559.68	35	150	0.17	530	0.6604	0.0134	0.8	0.8	0.8	10.9	0.011	HDPE
z4co-386	MH-263	MH-142	573.53	573.37	572.58	572.42	34.8	150	0.21	208	1.053	0.008	0.8	0.8	0.8	6.8	0.011	HDPE
z4co-146	MH-262	MH-181	581.01	580.76	580.06	579.81	34.8	150	0.43	140	1.2847	0.0568	0.8	0.8	0.8	15.9	0.011	HDPE
z4co-235	MH-261	MH-31	564.04	563.79	563.09	562.84	34.6	150	0.39	140	1.2843	0.0425	0.8	0.8	0.8	13.7	0.011	HDPE
z4co-447	MH-259	MH-260	558.46	558.47	556.49	556.42	34.5	400	0.8	500	9.2959	3.3595	1.6	1.57	1.65	41.2	0.011	HDPE
z4co-83	MH-258	MH-255	579.91	579.7	578.96	578.75	34.4	150	0.33	160	1.2003	0.0269	0.8	0.8	0.8	10.3	0.011	HDPE
z4co-350	MH-179	MH-256	554.36	554.12	553.41	553.17	34.3	150	0.29	146	1.2583	0.0159	0.8	0.8	0.8	8.1	0.011	HDPE
z4co-84	MH-255	MH-182	579.7	579.65	576.71	576.59	34.3	217	0.8	290	2.6262	1.1028	2.8	2.77	2.84	44.6	0.01	HDPE
z4co-456	MH-253	MH-254	556.32	556.17	554.85	554.78	34.1	400	0.8	528	9.0479	3.6215	1	1.07	0.99	39.8	0.011	HDPE
z4co-4	MH-252	MH-57	560.84	560.77	559.89	559.82	33.9	150	0.27	516	0.6691	0.0534	0.8	0.8	0.8	19.4	0.011	HDPE
z4co-31	MH-200	MH-81	571.46	571.61	570.35	570.3	33.5	150	0.13	750	0.555	0.0071	1.1	0.96	1.16	8.2	0.011	HDPE
z4co-126	MH-130	MH-228	579.07	578.98	575.71	575.61	33	217	0.8	330	2.4639	1.3339	3.1	3.14	3.15	51.8	0.01	HDPE
z4co-370	MH-251	MH-84	573.51	573.35	572.56	572.4	33	150	0.23	207	1.057	0.012	0.8	0.8	0.8	7.5	0.011	HDPE
z4co-237	MH-249	MH-250	564.59	564.21	563.59	563.26	32.9	150	0.23	100	1.52	0.0049	0.8	0.84	0.8	4.2	0.011	HDPE
z4co-77	MH-247	MH-248	580.88	580.64	579.93	579.69	32.9	150	0.21	137	1.3005	0.0057	0.8	0.8	0.8	5.3	0.011	HDPE
z4co-153	MH-246	MH-23	580.48	580.26	579.53	579.31	32.8	150	0.14	148	1.2475	0.0015	0.8	0.8	0.8	2.5	0.011	HDPE
z4co-478	MH-244	MH-245	558.53	558.41	556.09	555.79	32.6	150	0.94	109	1.6045	0.4906	2.4	2.29	2.48	41.7	0.01	HDPE
z4co-119	MH-172	MH-243	580.15	579.92	579.2	578.97	32.5	150	0.26	145	1.2643	0.0109	0.8	0.8	0.8	7	0.011	HDPE
z4co-116	MH-242	MH-154	580.71	580.49	579.76	579.54	32.3	150	0.21	144	1.2669	0.0056	0.8	0.8	0.8	5.1	0.011	HDPE
z4co-357	MH-240	MH-241	560.08	560.13	559.13	559.09	32.3	150	0.09	750	0.555	0.002	0.8	0.8	0.88	5.4	0.011	HDPE
z4co-271	MH-239	MH-197	555.95	556.01	554.58	554.48	32.2	217	0.8	334	2.4482	1.3598	1.2	1.16	1.31	52.5	0.01	HDPE
z4co-206	MH-238	MH-45	563.14	562.79	560.56	560.38	32.2	217	0.96	172	3.4145	1.065	2.3	2.36	2.2	46.1	0.01	HDPE
z4co-72	MH-236	MH-237	581.17	580.96	580.22	580.01	32.1	150	0.15	149	1.2452	0.0021	0.8	0.8	0.8	3.5	0.011	HDPE
z4co-68	MH-35	MH-146	580.47	580.25	577.52	577.37	32.2	175	0.8	209	1.7461	0.6756	2.7	2.77	2.71	44.3	0.01	HDPE
z4co-385	MH-235	MH-101	573.72	573.55	572.77	572.6	31.7	150	0.12	181	1.1301	0.001	0.8	0.8	0.8	3	0.011	HDPE
z4co-144	MH-234	MH-78	580.81	580.94	579.86	579.81	31.6	150	0.07	750	0.555	0.0012	0.9	0.8	0.97	7.6	0.011	HDPE
z4co-397	MH-160	MH-83	572.08	571.95	570.86	570.56	31.6	150	0.8	106	1.473	0.3432	1.2	1.07	1.23	38.1	0.011	HDPE
z4co-109	MH-133	MH-144	581.59	581.38	580.64	580.43	31.4	150	0.54	145	1.2631	0.125	0.8	0.8	0.8	22.7	0.011	HDPE
z4co-340	MH-64	MH-233	554.21	554.03	553.26	553.08	31.3	150	0.25	168	1.173	0.0126	0.8	0.8	0.8	7.6	0.011	HDPE
z4co-509	MH-231	MH-232	575.43	575.26	573.87	573.83	31.3	150	0.19	750	0.555	0.0285	1.3	1.41	1.28	13.2	0.011	HDPE
z4co-410	MH-162	MH-80	572.24	572.1	571.29	571.15	31.3	150	0.17	229	1.0053	0.0047	0.8	0.8	0.8	5.2	0.011	HDPE
z4co-291	MH-229	MH-230	560.83	560.79	559.88	559.84	31.1	150	0.12	721	0.5659	0.0055	0.8	0.8	0.8	7.6	0.011	HDPE
z4co-406	MH-100	MH-129	572.85	572.86	571.89	571.85	30.9	150	0.09	750	0.555	0.0026	0.8	0.81	0.86	4.8	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-380	MH-170	MH-53	573.17	573.02	572.22	572.07	30.9	150	0.2	212	1.0435	0.0079	0.8	0.8	0.8	6.2	0.011	HDPE
z4co-127	MH-228	MH-225	578.98	578.89	575.61	575.52	30.8	217	0.8	331	2.4604	1.3397	3.2	3.15	3.16	52	0.01	HDPE
z4co-334	MH-143	MH-227	555.26	555.02	554.2	554.07	30.8	150	0.34	226	1.0119	0.0437	0.9	0.91	0.8	13.9	0.011	HDPE
z4co-65	MH-14	MH-151	580.9	580.62	577.96	577.72	30.8	150	0.8	132	1.324	0.4535	2.8	2.8	2.75	44	0.011	HDPE
z4co-128	MH-225	MH-226	578.89	578.81	575.52	575.43	30.7	217	0.8	332	2.4552	1.3482	3.2	3.16	3.17	52.3	0.01	HDPE
z4co-105	MH-95	MH-165	581.04	580.96	580.09	580.01	30.7	150	0.38	418	0.7433	0.1398	0.8	0.8	0.8	29	0.011	HDPE
z4co-188	MH-224	MH-41	560.44	560.33	559.49	559.38	30.7	150	0.1	282	0.9045	0.0011	0.8	0.8	0.8	2.3	0.011	HDPE
z4co-315	MH-103	MH-223	564.17	563.85	563.2	562.9	30.6	150	0.66	100	1.52	0.1627	0.8	0.82	0.8	23.9	0.011	HDPE
z4co-181	MH-221	MH-193	560.39	560.28	559.44	559.33	30.3	150	0.11	282	0.9054	0.0013	0.8	0.8	0.8	2.5	0.011	HDPE
z4co-214	MH-220	MH-116	563.04	562.71	562.07	561.76	30.2	150	0.35	100	1.52	0.0199	0.8	0.82	0.8	8.4	0.011	HDPE
z4co-164	MH-219	MH-201	580	579.8	579.05	578.85	30.1	150	0.12	152	1.2318	0.0009	0.8	0.8	0.8	2.8	0.011	HDPE
z4co-155	MH-218	MH-9	580.56	580.36	579.61	579.41	29.7	150	0.11	148	1.2494	0.0008	0.8	0.8	0.8	1.8	0.011	HDPE
z4co-122	MH-217	MH-186	579.44	579.24	578.49	578.29	29.7	150	0.31	151	1.2372	0.0207	0.8	0.8	0.8	9.2	0.011	HDPE
z4co-71	MH-216	MH-189	580.26	580.18	579.31	579.04	29.6	150	0.8	112	1.4374	0.3646	0.9	0.8	0.98	39.5	0.011	HDPE
z4co-312	MH-215	MH-102	564.78	564.39	563.74	563.44	29.4	150	0.51	100	1.52	0.0683	0.8	0.89	0.8	15.4	0.011	HDPE
z4co-190	MH-214	MH-21	560.49	560.39	559.54	559.44	29.3	150	0.12	294	0.8869	0.0021	0.8	0.8	0.8	3.3	0.011	HDPE
z4co-40	MH-86	MH-107	572.23	572.08	571.21	571.13	29.3	150	0.11	381	0.7788	0.0021	0.8	0.87	0.8	3.7	0.011	HDPE
z4co-303	MH-149	MH-213	560.78	560.76	559.81	559.78	29	150	0.15	750	0.555	0.0107	0.8	0.82	0.83	8	0.011	HDPE
z4co-390	MH-198	MH-173	573.03	572.91	572.08	571.96	28.9	150	0.27	242	0.977	0.0242	0.8	0.8	0.8	11.4	0.011	HDPE
z4co-81	MH-191	MH-212	580.16	580.18	579.15	579.12	28.7	150	0.16	750	0.555	0.0154	0.9	0.85	0.92	11.2	0.011	HDPE
z4co-430	MH-210	MH-211	555.22	555.18	548.74	548.69	28.7	400	0.8	580	8.6333	4.1275	6.1	6.09	6.09	58.9	0.011	HDPE
z4co-392	MH-174	MH-209	572.81	572.71	571.86	571.76	28.5	150	0.3	262	0.9384	0.0344	0.8	0.8	0.8	13.6	0.011	HDPE
z4co-347	MH-206	MH-192	554.95	554.74	554	553.79	28.2	150	0.26	135	1.3105	0.0108	0.8	0.8	0.8	6.8	0.011	HDPE
z4co-450	MH-204	MH-205	558.23	558.14	556.1	556.05	28.2	400	0.8	508	9.2246	3.4202	1.7	1.73	1.7	41.7	0.011	HDPE
z4co-394	MH-203	MH-202	572.69	572.55	571.74	571.6	28.1	150	0.61	192	1.0984	0.2714	0.8	0.8	0.8	35.7	0.011	HDPE
z4co-165	MH-201	MH-127	579.8	579.62	578.85	578.67	28	150	0.17	153	1.2279	0.0029	0.8	0.8	0.8	4	0.011	HDPE
z4co-93	MH-98	MH-163	579.44	579.39	576.22	576.13	27.8	217	0.8	293	2.6133	1.1185	3	3	3.04	45.1	0.01	HDPE
z4co-30	MH-199	MH-200	571.33	571.46	570.38	570.35	27.8	150	0.12	750	0.555	0.0053	0.9	0.8	0.96	7.3	0.011	HDPE
z4co-389	MH-121	MH-198	573.17	573.03	572.22	572.08	27.8	150	0.27	196	1.0847	0.0176	0.8	0.8	0.8	9.7	0.011	HDPE
z4co-270	MH-197	MH-196	556.01	556.05	554.48	554.4	27.7	217	0.8	334	2.4475	1.3614	1.4	1.31	1.44	52.8	0.01	HDPE
z4co-367	MH-195	MH-65	573.42	573.31	572.22	572.18	27.7	150	0.35	750	0.555	0.2313	1	1.05	0.97	44.8	0.011	HDPE
z4co-154	MH-194	MH-50	580.17	580.35	579.22	579.18	27.5	150	0.1	750	0.555	0.0035	0.9	0.8	1.02	7.3	0.011	HDPE
z4co-22	MH-60	MH-25	571.82	571.72	570.16	569.91	27.4	150	0.8	109	1.4544	0.3548	1.6	1.5	1.66	35.9	0.011	HDPE
z4co-183	MH-41	MH-193	560.33	560.28	554.49	554.32	27.1	150	0.8	165	1.3002	0.4776	5.8	5.69	5.81	45.2	0.01	HDPE
z4co-348	MH-192	MH-178	554.74	554.54	553.79	553.59	27	150	0.28	135	1.3082	0.0129	0.8	0.8	0.8	7.4	0.011	HDPE
z4co-80	MH-190	MH-191	580.14	580.16	579.19	579.15	26.9	150	0.16	750	0.555	0.014	0.8	0.8	0.85	11.1	0.011	HDPE
z4co-70	MH-189	MH-147	580.18	580.11	579.04	578.81	26.9	150	0.8	114	1.4228	0.3739	1.1	0.98	1.15	37.1	0.011	HDPE
z4co-343	MH-115	MH-188	553.59	553.42	552.64	552.47	26.8	150	0.36	163	1.1919	0.0367	0.8	0.8	0.8	12.5	0.011	HDPE
z4co-115	MH-185	MH-96	581.14	581.08	580.19	580.13	26.8	150	0.16	426	0.7366	0.0084	0.8	0.8	0.8	17.7	0.011	HDPE
z4co-33	MH-187	MH-161	571.19	571.31	570.24	570.2	26.5	150	0.26	750	0.555	0.0744	0.9	0.8	0.95	24.8	0.011	HDPE
z4co-408	MH-79	MH-55	572.04	571.93	571.09	570.98	26.4	150	0.19	225	1.0136	0.0065	0.8	0.8	0.8	5.4	0.011	HDPE
z4co-123	MH-186	MH-130	579.24	579.07	578.29	578.12	26.3	150	0.31	155	1.219	0.0221	0.8	0.8	0.8	9.3	0.011	HDPE
z4co-114	MH-184	MH-185	581.21	581.14	580.26	580.19	26.2	150	0.15	403	0.7569	0.0059	0.8	0.8	0.8	6.9	0.011	HDPE
z4co-85	MH-182	MH-183	579.65	579.6	576.59	576.5	26.1	217	0.8	291	2.625	1.1042	2.9	2.84	2.88	44.7	0.01	HDPE
z4co-147	MH-181	MH-118	580.76	580.67	579.81	579.72	26.1	150	0.34	266	0.9321	0.0577	0.8	0.8	0.8	16.9	0.011	HDPE
z4co-301	MH-180	MH-148	560.83	560.81	559.88	559.84	26	150	0.13	750	0.555	0.0083	0.8	0.8	0.82	8.7	0.011	HDPE
z4co-349	MH-178	MH-179	554.54	554.36	553.59	553.41	26	150	0.28	140	1.2851	0.0144	0.8	0.8	0.8	7.7	0.011	HDPE
z4co-396	MH-177	MH-159	572.3	572.18	571.35	571.1	25.9	150	0.8	101	1.5122	0.3237	0.9	0.8	0.93	37	0.011	HDPE
z4co-100	MH-176	MH-175	580.01	579.94	579.06	578.99	25.9	150	0.15	415	0.7462	0.0059	0.8	0.8	0.8	6.9	0.011	HDPE
z4co-391	MH-173	MH-174	572.91	572.81	571.96	571.86	25.5	150	0.28	265	0.9341	0.0294	0.8	0.8	0.8	12.5	0.011	HDPE
z4co-118	MH-155	MH-172	580.32	580.15	579.37	579.2	25.2	150	0.24	145	1.2617	0.0088	0.8	0.8	0.8	6.2	0.011	HDPE
z4co-382	MH-92	MH-171	573.4	573.29	572.45	572.34	25.2	150	0.18	213	1.0418	0.005	0.8	0.8	0.8	5.3	0.011	HDPE
z4co-381	MH-171	MH-170	573.29	573.17	572.34	572.22	25.1	150	0.19	216	1.0343	0.0066	0.8	0.8	0.8	5.9	0.011	HDPE
z4co-329	MH-168	MH-169	555.72	555.54	554.76	554.59	24.8	150	0.36	148	1.2501	0.0345	0.8	0.81	0.8	11.9	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-403	MH-166	MH-126	572.7	572.79	571.75	571.72	24.6	150	0.06	750	0.555	0.0007	0.9	0.8	0.92	5.2	0.011	HDPE
z4co-104	MH-165	MH-164	580.96	580.9	580.01	579.95	24.3	150	0.39	404	0.7559	0.1415	0.8	0.8	0.8	26.7	0.011	HDPE
z4co-94	MH-163	MH-117	579.39	579.33	576.13	576.05	24.3	217	0.8	294	2.6107	1.1216	3.1	3.04	3.07	45.3	0.01	HDPE
z4co-411	MH-90	MH-162	572.35	572.24	571.4	571.29	24.2	150	0.16	212	1.044	0.0033	0.8	0.8	0.8	4.5	0.011	HDPE
z4co-34	MH-161	MH-104	571.31	571.41	570.2	570.17	24.1	150	0.26	750	0.555	0.0778	1	0.95	1.09	25.2	0.011	HDPE
z4co-398	MH-159	MH-160	572.18	572.08	571.1	570.86	23.9	150	0.8	102	1.5049	0.328	1	0.93	1.07	37.6	0.011	HDPE
z4co-112	MH-112	MH-135	581.97	581.9	581.02	580.95	23.9	150	0.36	307	0.8673	0.0785	0.8	0.8	0.8	21.1	0.011	HDPE
z4co-29	MH-25	MH-138	571.72	571.6	569.87	569.69	23.9	150	0.8	132	1.3207	0.4566	1.7	1.71	1.76	44.2	0.011	HDPE
z4co-233	MH-15	MH-158	563.64	563.48	562.69	562.53	23.6	150	0.42	143	1.2699	0.055	0.8	0.8	0.8	19	0.011	HDPE
z4co-64	MH-157	MH-156	580.68	580.73	579.73	579.7	23.4	150	0.1	750	0.555	0.0031	0.8	0.8	0.88	6.1	0.011	HDPE
z4co-185	MH-21	MH-54	560.39	560.34	554.66	554.51	23.6	150	0.8	165	1.3024	0.4752	5.6	5.58	5.67	45.1	0.01	HDPE
z4co-195	MH-29	MH-19	560.58	560.5	559.63	559.55	23.2	150	0.38	282	0.9059	0.0841	0.8	0.8	0.8	19.4	0.011	HDPE
z4co-117	MH-154	MH-155	580.49	580.32	579.54	579.37	23.2	150	0.23	143	1.2716	0.0073	0.8	0.8	0.8	5.6	0.011	HDPE
z4co-98	MH-153	MH-152	579.87	579.72	578.92	578.77	23.1	150	0.56	155	1.2193	0.1639	0.8	0.8	0.8	26.1	0.011	HDPE
z4co-67	MH-151	MH-35	580.62	580.47	577.72	577.55	23	150	0.8	132	1.3225	0.4548	2.8	2.75	2.77	42	0.011	HDPE
z4co-364	MH-150	MH-62	573.7	573.68	572.75	572.72	23	150	0.1	750	0.555	0.0036	0.8	0.8	0.81	5.4	0.011	HDPE
z4co-302	MH-148	MH-149	560.81	560.78	559.84	559.81	22.9	150	0.14	750	0.555	0.0095	0.8	0.82	0.82	9.2	0.011	HDPE
z4co-69	MH-146	MH-147	580.25	580.11	577.37	577.26	22.7	175	0.8	209	1.7448	0.6768	2.7	2.71	2.68	43.5	0.01	HDPE
z4co-352	MH-145	MH-115	553.79	553.59	552.84	552.64	22.5	150	0.33	111	1.441	0.0183	0.8	0.8	0.8	10.3	0.011	HDPE
z4co-108	MH-144	MH-140	581.38	581.23	580.43	580.28	22.4	150	0.53	150	1.2422	0.1272	0.8	0.8	0.8	22.9	0.011	HDPE
z4co-333	MH-73	MH-143	555.27	555.26	554.23	554.2	22.4	150	0.21	750	0.555	0.0388	0.9	0.89	0.91	15.8	0.011	HDPE
z4co-387	MH-142	MH-120	573.37	573.26	572.42	572.31	22.3	150	0.23	216	1.0346	0.0119	0.8	0.8	0.8	7.8	0.011	HDPE
z4co-25	MH-141	MH-132	571.9	571.8	569.92	569.9	22.3	150	0.28	750	0.555	0.0994	1.8	1.83	1.76	29.9	0.011	HDPE
z4co-107	MH-140	MH-96	581.23	581.08	580.28	580.13	22.1	150	0.53	155	1.222	0.1282	0.8	0.8	0.8	25.4	0.011	HDPE
z4co-521	MH-138	MH-139	571.6	571.53	569.69	569.52	22	150	0.8	133	1.3185	0.4587	1.8	1.76	1.86	44.4	0.011	HDPE
z4co-229	MH-136	MH-137	562.16	562	560.88	560.85	22	150	0.27	750	0.555	0.0906	1.1	1.13	1	30.6	0.011	HDPE
z4co-111	MH-135	MH-134	581.9	581.74	580.95	580.79	21.9	150	0.53	142	1.2753	0.1194	0.8	0.8	0.8	22.2	0.011	HDPE
z4co-110	MH-134	MH-133	581.74	581.59	580.79	580.64	21.6	150	0.53	145	1.2615	0.1221	0.8	0.8	0.8	22.5	0.011	HDPE
z4co-23	MH-132	MH-25	571.8	571.72	569.9	569.87	21.5	150	0.28	750	0.555	0.101	1.7	1.76	1.71	37.8	0.011	HDPE
z4co-234	MH-31	MH-15	563.79	563.64	562.84	562.69	21.4	150	0.41	144	1.2684	0.0518	0.8	0.8	0.8	14.6	0.011	HDPE
z4co-124	MH-131	MH-130	579.13	579.07	575.78	575.71	21.3	217	0.8	326	2.48	1.3066	3.1	3.14	3.14	51.3	0.01	HDPE
z4co-407	MH-129	MH-126	572.86	572.79	571.85	571.72	20.9	150	0.2	162	1.1958	0.0051	0.9	0.86	0.92	6.1	0.011	HDPE
z4co-166	MH-127	MH-128	579.62	579.48	578.67	578.53	20.9	150	0.19	157	1.2124	0.0046	0.8	0.8	0.8	5.9	0.011	HDPE
z4co-402	MH-126	MH-125	572.79	572.69	571.72	571.69	20.6	150	0.13	750	0.555	0.0067	0.9	0.92	0.85	7.1	0.011	HDPE
z4co-91	MH-88	MH-97	579.51	579.47	576.35	576.28	20.1	217	0.8	293	2.616	1.1151	3	2.95	2.98	45	0.01	HDPE
z4co-331	MH-122	MH-72	555.28	555.2	554.33	554.25	19.4	150	0.31	245	0.9702	0.037	0.8	0.8	0.8	15.3	0.011	HDPE
z4co-388	MH-120	MH-121	573.26	573.17	572.31	572.22	19.1	150	0.25	205	1.0624	0.0144	0.8	0.8	0.8	8.4	0.011	HDPE
z4co-148	MH-118	MH-119	580.67	580.6	579.72	579.65	19	150	0.34	282	0.9048	0.0588	0.8	0.8	0.8	19	0.011	HDPE
z4co-216	MH-116	MH-45	562.71	562.79	560.47	560.44	18.7	150	0.34	750	0.555	0.2041	2.1	2.1	2.2	35.1	0.011	HDPE
z4co-342	MH-114	MH-115	553.75	553.59	552.8	552.64	18.5	150	0.33	114	1.4265	0.0177	0.8	0.8	0.8	10.3	0.011	HDPE
z4co-113	MH-113	MH-112	582.03	581.97	581.08	581.02	18.3	150	0.33	352	0.8105	0.069	0.8	0.8	0.8	19.8	0.011	HDPE
z4co-400	MH-111	MH-110	572.45	572.36	571.5	571.41	18.3	150	0.22	201	1.0733	0.0097	0.8	0.8	0.8	6.7	0.011	HDPE
z4co-517	MH-108	MH-109	574.32	574.23	572.48	572.46	17.8	150	0.35	750	0.555	0.2174	1.7	1.69	1.63	43.2	0.011	HDPE
z4co-38	MH-107	MH-17	572.08	571.97	571.13	571.02	17.5	150	0.18	152	1.2349	0.0033	0.8	0.8	0.8	3.7	0.011	HDPE
z4co-132	MH-106	MH-105	578.18	578.25	577.23	577.21	17.3	150	0.35	750	0.555	0.235	0.8	0.8	0.89	45.1	0.011	HDPE
z4co-35	MH-104	MH-70	571.41	571.48	570.17	570.15	17.1	150	0.26	750	0.555	0.0796	1.1	1.09	1.18	25.4	0.011	HDPE
z4co-313	MH-102	MH-103	564.39	564.17	563.39	563.22	16.9	150	0.53	100	1.52	0.077	0.8	0.85	0.8	16.4	0.011	HDPE
z4co-384	MH-101	MH-93	573.55	573.48	572.6	572.53	16.8	150	0.14	238	0.9853	0.0025	0.8	0.8	0.8	3.9	0.011	HDPE
z4co-405	MH-99	MH-100	572.86	572.85	571.91	571.89	16.3	150	0.07	750	0.555	0.0011	0.8	0.8	0.81	4.1	0.011	HDPE
z4co-92	MH-97	MH-98	579.47	579.44	576.28	576.22	16.2	217	0.8	293	2.6148	1.1165	3	2.98	3	45.1	0.01	HDPE
z4co-106	MH-96	MH-95	581.08	581.04	580.13	580.09	16.1	150	0.4	369	0.7911	0.1381	0.8	0.8	0.8	28.5	0.011	HDPE
z4co-159	MH-94	MH-9	580.43	580.36	579.48	579.41	16	150	0.21	234	0.9945	0.0095	0.8	0.8	0.8	6.5	0.011	HDPE
z4co-383	MH-93	MH-92	573.48	573.4	572.53	572.45	15.7	150	0.16	209	1.0507	0.0036	0.8	0.8	0.8	4.6	0.011	HDPE
z4co-412	MH-91	MH-90	572.43	572.35	571.48	571.4	15.7	150	0.15	184	1.1201	0.0023	0.8	0.8	0.8	3.7	0.011	HDPE

PIPE REPORT ZONE 4

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z4co-176	MH-89	MH-37	565.54	565.42	564.27	564.21	15.6	217	0.8	260	2.7776	0.9511	1	1.05	0.99	40.2	0.01	HDPE
z4co-90	MH-87	MH-88	579.54	579.51	576.4	576.35	15.1	217	0.8	293	2.6169	1.1139	2.9	2.92	2.95	45	0.01	HDPE
z4co-41	MH-85	MH-86	572.18	572.23	571.23	571.21	15.6	150	0.07	750	0.555	0.0008	0.8	0.8	0.87	3.3	0.011	Concrete
z4co-20	MH-56	MH-59	571.92	571.86	570.38	570.25	14.4	150	0.8	109	1.4571	0.3533	1.4	1.38	1.46	38.6	0.011	Concrete
z4co-369	MH-84	MH-66	573.35	573.28	572.4	572.33	13.9	150	0.24	206	1.0596	0.0129	0.8	0.8	0.8	7.4	0.011	Concrete
z4co-19	MH-83	MH-55	571.95	571.93	570.56	570.44	13.7	150	0.8	107	1.469	0.3461	1.3	1.23	1.34	38.4	0.011	Concrete
z4co-32	MH-81	MH-82	571.61	571.68	570.3	570.28	13.7	150	0.13	750	0.555	0.0084	1.2	1.16	1.24	7.1	0.011	Concrete
z4co-409	MH-80	MH-79	572.1	572.04	571.15	571.09	13.1	150	0.18	245	0.9708	0.0057	0.8	0.8	0.8	5.6	0.011	Concrete
z4co-145	MH-78	MH-77	580.94	580.85	579.81	579.8	12.7	150	0.17	750	0.555	0.0169	0.9	0.97	0.9	10.5	0.011	Concrete
z4co-296	MH-75	MH-76	560.55	560.54	559.58	559.57	12.7	150	0.18	750	0.555	0.023	0.8	0.82	0.83	14.1	0.011	Concrete
z4co-363	MH-74	MH-49	573.76	573.72	572.81	572.77	12.4	150	0.18	316	0.8551	0.0089	0.8	0.8	0.8	8.1	0.011	Concrete
z4co-332	MH-72	MH-73	555.2	555.27	554.25	554.23	12.4	150	0.21	750	0.555	0.0378	0.8	0.8	0.89	17.6	0.011	Concrete
z4co-36	MH-70	MH-71	571.48	571.53	570.15	570.13	12.3	150	0.26	750	0.555	0.081	1.2	1.18	1.25	25.6	0.011	Concrete
z4co-337	MH-68	MH-69	554.69	554.59	553.74	553.64	11.9	150	0.2	126	1.3521	0.004	0.8	0.8	0.8	4.7	0.011	Concrete
z4co-379	MH-52	MH-67	573	572.94	571.86	571.84	11.9	150	0.15	750	0.555	0.0111	1	0.99	0.95	37.4	0.011	Concrete
z4co-368	MH-65	MH-66	573.31	573.28	572.18	572.17	11.6	150	0.35	750	0.555	0.2325	1	0.97	0.96	45.6	0.011	Concrete
z4co-339	MH-63	MH-64	554.29	554.21	553.34	553.26	11.1	150	0.25	151	1.2382	0.01	0.8	0.8	0.8	6.8	0.011	Concrete
z4co-376	MH-62	MH-61	573.68	573.62	572.72	572.67	11	150	0.18	228	1.0074	0.0052	0.8	0.81	0.8	5.3	0.011	Concrete
z4co-21	MH-59	MH-60	571.86	571.82	570.25	570.16	9.6	150	0.8	109	1.456	0.3539	1.5	1.46	1.5	38.6	0.011	Concrete
z4co-5	MH-57	MH-58	560.77	560.76	559.82	559.81	9.3	150	0.25	605	0.6181	0.0553	0.8	0.8	0.8	19.6	0.011	Concrete
z4co-18	MH-55	MH-56	571.93	571.92	570.44	570.38	5.9	150	0.8	109	1.4575	0.3531	1.4	1.34	1.38	38.6	0.011	Concrete
z4co-182	MH-54	MH-41	560.34	560.33	554.51	554.49	4.6	150	0.8	165	1.3018	0.4759	5.7	5.67	5.69	45.2	0.01	Concrete
z4co-378	MH-53	MH-52	573.02	573	572.07	572.05	4.4	150	0.21	197	1.0831	0.0086	0.8	0.8	0.8	6.1	0.011	Concrete
z4co-171	MH-51	MH-43	566.41	566.41	565.1	565.1	3.5	150	0.46	750	0.6105	0.5517	1.2	1.16	1.16	54.4	0.01	Concrete
z4co-156	MH-50	MH-9	580.35	580.36	579.18	579.18	2.4	150	0.11	750	0.555	0.0038	1	1.02	1.04	10	0.011	Concrete
z4co-372	MH-49	MH-48	573.72	573.7	572.77	572.75	11.5	150	0.14	750	0.555	0.0096	0.8	0.8	0.8	7.8	0.011	Concrete
z4co-48	MH-12	MH-11	581.74	581.74	580.5	580.48	2.8	150	0.8	114	1.4259	0.3758	1.1	1.09	1.11	37.3	0.011	Concrete
CO-1	MH-501	MH-1	552.2	551.58	545.64	545.46	129.3	700	1.13	750	33.7507	25.1402	5.6	5.86	5.41	62.1	0.011	Concrete
CO-2	MH-1	MH-534	551.58	550.5	545.46	545.39	57.2	700	1.13	750	33.7507	25.1552	4.9	5.41	4.41	59	0.011	Concrete
CO-5	MH-503	MH-211	555	555.18	551.63	551.45	136.4	500	0.85	750	13.7597	7.6707	3	2.87	3.23	46.3	0.011	Concrete

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-534	550.5	545.39	(N/A)	(N/A)	545.39	25.2	0.4
MH-1	551.58	545.46	(N/A)	(N/A)	545.46	25.16	0.43
MH-501	552.2	545.64	(N/A)	(N/A)	545.64	25.14	0.44
MH-492	552.27	551.07	551.32	545.91	545.81	25.1	0.44
MH-188	553.42	552.47	(N/A)	(N/A)	552.47	0.04	0.02
MH-115	553.59	552.64	552.64	(N/A)	552.64	0.04	0.02
MH-114	553.75	552.8	(N/A)	(N/A)	552.8	0.02	0.01
MH-145	553.79	552.84	(N/A)	(N/A)	552.84	0.02	0.01
MH-530	554	552.93	546.56	(N/A)	546.56	17.44	0.39
MH-233	554.03	553.08	(N/A)	(N/A)	553.08	0.02	0.01
MH-256	554.12	553.17	(N/A)	(N/A)	553.17	0.02	0.01
MH-64	554.21	553.26	(N/A)	(N/A)	553.26	0.01	0.01
MH-63	554.29	553.34	(N/A)	(N/A)	553.34	0.01	0.01
MH-179	554.36	553.41	(N/A)	(N/A)	553.41	0.02	0.01
MH-178	554.54	553.59	(N/A)	(N/A)	553.59	0.01	0.01
MH-69	554.59	553.64	(N/A)	(N/A)	553.64	0.01	0.01
MH-68	554.69	553.74	(N/A)	(N/A)	553.74	0	0.01
MH-408	554.7	553.75	551.71	551.93	551.71	7.58	0.23
MH-192	554.74	553.79	(N/A)	(N/A)	553.79	0.01	0.01
MH-549	554.8	552.38	(N/A)	(N/A)	552.38	7.45	0.31
MH-518	554.82	552.76	(N/A)	(N/A)	552.76	7.14	0.3
MH-273	554.86	(N/A)	(N/A)	(N/A)	553.91	0	0.01
MH-547	554.93	552.05	(N/A)	(N/A)	551.95	7.62	0.26
MH-206	554.95	554	(N/A)	(N/A)	554	0.01	0.01
MH-550	555	(N/A)	(N/A)	(N/A)	553.93	2.31	0.14
MH-431	555	553.66	(N/A)	(N/A)	553.66	3.01	0.15
MH-432	555	(N/A)	(N/A)	(N/A)	553.8	2.97	0.15
MH-503	555	551.63	(N/A)	(N/A)	551.63	7.67	0.26
MH-227	555.02	554.07	(N/A)	(N/A)	554.07	0.05	0.02
MH-211	555.18	548.69	551.45	(N/A)	548.59	11.8	0.35
MH-72	555.2	554.25	(N/A)	(N/A)	554.25	0.04	0.03
MH-301	555.22	554.27	(N/A)	(N/A)	554.27	0.01	0.01
MH-210	555.22	548.74	(N/A)	(N/A)	548.74	4.13	0.22
MH-278	555.23	553.43	(N/A)	(N/A)	553.43	3.04	0.15
MH-433	555.26	552.97	(N/A)	(N/A)	552.97	7.04	0.3
MH-143	555.26	554.2	(N/A)	(N/A)	554.2	0.04	0.02
MH-73	555.27	554.23	(N/A)	(N/A)	554.23	0.04	0.03
MH-122	555.28	554.33	(N/A)	(N/A)	554.33	0.04	0.02
MH-385	555.31	(N/A)	(N/A)	(N/A)	554.36	0	0.01
MH-277	555.48	553.35	(N/A)	(N/A)	553.35	3.05	0.15
MH-475	555.48	548.43	(N/A)	(N/A)	548.43	11.82	0.35
MH-169	555.54	554.59	(N/A)	(N/A)	554.59	0.04	0.02
MH-485	555.56	554.15	(N/A)	(N/A)	554.15	0.86	0.09
MH-395	555.6	(N/A)	(N/A)	(N/A)	554.65	0.25	0.07
MH-372	555.65	553.07	554.48	(N/A)	553.07	7.01	0.3

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-479	555.65	548.93	(N/A)	(N/A)	548.93	4.12	0.19
MH-394	555.68	554.57	(N/A)	(N/A)	554.57	0.26	0.07
MH-168	555.72	554.76	(N/A)	(N/A)	554.76	0.03	0.02
MH-272	555.76	(N/A)	(N/A)	(N/A)	554.81	0.03	0.02
MH-362	555.81	551.34	(N/A)	(N/A)	551.34	0.42	0.06
MH-417	555.81	552.48	(N/A)	(N/A)	552.48	0.39	0.06
MH-361	555.83	551.75	(N/A)	(N/A)	551.75	0.41	0.06
MH-320	555.84	550.46	(N/A)	(N/A)	550.46	0.44	0.07
MH-321	555.85	550.13	(N/A)	(N/A)	550.13	0.45	0.07
MH-342	555.87	550.82	(N/A)	(N/A)	550.82	0.43	0.06
MH-416	555.91	553.07	(N/A)	(N/A)	553.07	0.37	0.06
MH-351	555.92	(N/A)	(N/A)	(N/A)	554.9	1.17	0.1
MH-472	555.94	548.29	(N/A)	(N/A)	548.29	11.84	0.35
MH-239	555.95	554.58	(N/A)	(N/A)	554.58	1.36	0.11
MH-197	556.01	554.48	(N/A)	(N/A)	554.48	1.36	0.11
MH-296	556.03	549.75	(N/A)	(N/A)	549.75	0.46	0.07
MH-457	556.03	555.08	(N/A)	(N/A)	555.08	0.32	0.06
MH-196	556.05	555.1	554.4	(N/A)	554.4	1.38	0.12
MH-339	556.06	554.27	553.14	553.27	553.14	6.74	0.29
MH-517	556.12	547.22	(N/A)	(N/A)	547.22	14.38	0.34
MH-535	556.12	551.94	(N/A)	(N/A)	551.94	6.65	0.28
MH-254	556.17	549.46	554.78	(N/A)	549.21	4.09	0.19
MH-350	556.21	554.75	555.26	(N/A)	554.75	1.36	0.11
MH-430	556.24	555.29	(N/A)	(N/A)	555.29	0.26	0.06
MH-253	556.32	554.85	(N/A)	(N/A)	554.85	3.62	0.17
MH-505	556.37	547.01	(N/A)	(N/A)	547.01	14.47	0.35
MH-389	556.4	555.45	(N/A)	(N/A)	555.45	0.02	0.01
MH-3	556.46	554.07	548.11	(N/A)	548.01	14.06	0.34
MH-386	556.47	554.95	(N/A)	(N/A)	554.95	3.6	0.17
MH-429	556.48	555.53	(N/A)	(N/A)	555.53	0.22	0.05
MH-298	556.5	548.14	(N/A)	(N/A)	548.14	11.85	0.32
MH-415	556.5	(N/A)	(N/A)	(N/A)	555.55	0.18	0.04
MH-506	556.69	546.83	(N/A)	(N/A)	546.83	14.57	0.35
MH-484	556.7	554.65	(N/A)	(N/A)	554.65	0.81	0.09
MH-412	556.76	(N/A)	(N/A)	(N/A)	555.81	0.01	0.01
MH-452	556.85	(N/A)	(N/A)	(N/A)	555.9	0.17	0.04
MH-524	556.97	547.92	(N/A)	(N/A)	547.92	14.08	0.34
MH-450	556.98	554.24	(N/A)	(N/A)	554.24	2.21	0.15
MH-449	557.02	554.45	(N/A)	(N/A)	554.45	2.19	0.15
MH-500	557.16	555.27	(N/A)	(N/A)	555.27	3.57	0.17
MH-474	557.3	554.77	(N/A)	(N/A)	554.77	2.16	0.14
MH-525	557.45	547.69	(N/A)	(N/A)	547.69	14.16	0.34
MH-490	557.57	555.51	(N/A)	(N/A)	555.51	3.52	0.17
MH-489	557.85	555.75	(N/A)	(N/A)	555.75	3.49	0.17
MH-473	557.9	555.01	(N/A)	(N/A)	555.01	2.11	0.14

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-441	558	(N/A)	(N/A)	(N/A)	556.8	3.31	0.16
MH-422	558	556.63	(N/A)	(N/A)	556.63	3.34	0.16
MH-520	558.04	547.43	(N/A)	(N/A)	547.43	14.27	0.34
MH-205	558.14	556.05	(N/A)	(N/A)	556.05	3.44	0.17
MH-347	558.2	556.19	(N/A)	(N/A)	556.19	3.41	0.17
MH-204	558.23	556.1	(N/A)	(N/A)	556.1	3.42	0.17
MH-346	558.26	(N/A)	(N/A)	(N/A)	557.31	0.01	0.01
MH-509	558.41	(N/A)	(N/A)	(N/A)	557.46	0.01	0.01
MH-245	558.41	555.72	555.79	(N/A)	555.67	1.96	0.13
MH-496	558.44	556.52	(N/A)	(N/A)	556.52	1.38	0.12
MH-419	558.45	555.92	(N/A)	(N/A)	555.92	1.4	0.12
MH-259	558.46	556.49	(N/A)	(N/A)	556.49	3.36	0.16
MH-260	558.47	556.42	(N/A)	(N/A)	556.42	3.38	0.16
MH-244	558.53	556.09	(N/A)	(N/A)	556.09	0.49	0.07
MH-502	558.56	(N/A)	(N/A)	(N/A)	557.61	0.03	0.02
MH-548	558.59	555.71	(N/A)	(N/A)	555.71	0.77	0.08
MH-345	558.6	557.25	(N/A)	(N/A)	557.25	0.01	0.01
MH-543	558.69	552.37	(N/A)	(N/A)	552.37	6.61	0.28
MH-353	558.71	556.38	(N/A)	(N/A)	556.38	0.48	0.07
MH-481	558.77	556.9	(N/A)	(N/A)	556.9	1.34	0.11
MH-480	558.82	557.25	(N/A)	(N/A)	557.25	1.32	0.11
MH-373	558.85	556.79	(N/A)	(N/A)	556.79	0.43	0.06
MH-533	558.87	556.85	(N/A)	(N/A)	556.85	2.74	0.2
MH-529	558.92	556.57	(N/A)	(N/A)	554.68	2.79	0.14
MH-532	559.08	557.09	(N/A)	(N/A)	557.09	2.67	0.2
MH-442	559.1	557.51	(N/A)	(N/A)	557.51	0.4	0.06
MH-333	559.22	(N/A)	(N/A)	(N/A)	558.27	0	0.01
MH-334	559.3	558.21	557.11	(N/A)	557.11	0.02	0.02
MH-396	559.31	558.36	(N/A)	(N/A)	558.36	0.24	0.07
MH-397	559.36	558.28	558.28	(N/A)	558.28	0.37	0.06
MH-378	559.38	557.03	557.03	(N/A)	557.03	0.04	0.03
MH-1	559.39	558.19	552.9	(N/A)	552.67	6.5	0.28
MH-295	559.45	557.81	(N/A)	(N/A)	557.81	1.29	0.11
MH-379	559.46	556.96	556.96	(N/A)	556.96	0.07	0.04
MH-294	559.46	557.93	(N/A)	(N/A)	557.93	1.27	0.11
MH-384	559.56	556.88	553.31	(N/A)	553.28	0.7	0.08
MH-381	559.56	(N/A)	(N/A)	(N/A)	558.61	0	0.01
MH-542	559.6	(N/A)	(N/A)	(N/A)	558.58	1.24	0.11
MH-508	559.61	558.66	(N/A)	(N/A)	558.66	0.23	0.06
MH-407	559.64	558.69	(N/A)	(N/A)	558.69	0.12	0.03
MH-370	559.65	558.54	(N/A)	(N/A)	558.54	0.01	0.01
MH-40	559.9	553.53	558.47	(N/A)	553.53	0.61	0.12
MH-39	559.9	558.95	553.54	(N/A)	553.54	0.6	0.12
MH-536	560.01	557.33	(N/A)	(N/A)	557.33	2.59	0.19
MH-240	560.08	(N/A)	(N/A)	(N/A)	559.13	0	0.01

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-241	560.13	559.09	(N/A)	(N/A)	559.09	0	0.01
MH-507	560.14	559.19	(N/A)	(N/A)	559.19	0.2	0.05
MH-439	560.16	559.21	(N/A)	(N/A)	559.21	0.1	0.03
MH-271	560.19	554.11	559.03	(N/A)	554.11	0.49	0.07
MH-405	560.28	(N/A)	(N/A)	(N/A)	559.33	0	0.01
MH-193	560.28	554.32	559.33	(N/A)	554.32	0.48	0.07
MH-465	560.29	(N/A)	(N/A)	(N/A)	559.34	0	0.01
MH-461	560.31	559.11	(N/A)	(N/A)	559.11	0.11	0.04
MH-41	560.33	559.38	554.49	(N/A)	554.49	0.48	0.07
MH-54	560.34	554.51	(N/A)	(N/A)	554.51	0.48	0.07
MH-478	560.35	(N/A)	(N/A)	(N/A)	559.4	0	0.01
MH-21	560.39	554.66	559.44	(N/A)	554.66	0.48	0.07
MH-221	560.39	(N/A)	(N/A)	(N/A)	559.44	0	0
MH-279	560.41	554.88	(N/A)	(N/A)	554.88	0.47	0.07
MH-553	560.42	(N/A)	(N/A)	(N/A)	559.47	0.11	0.05
MH-224	560.44	(N/A)	(N/A)	(N/A)	559.49	0	0
MH-552	560.46	(N/A)	(N/A)	(N/A)	559.51	0.01	0.01
MH-292	560.48	555.1	(N/A)	(N/A)	555.1	0.47	0.07
MH-214	560.49	(N/A)	(N/A)	(N/A)	559.54	0	0.01
MH-19	560.5	559.24	559.55	(N/A)	559.24	0.09	0.04
MH-438	560.52	559.57	(N/A)	(N/A)	559.57	0.06	0.02
MH-512	560.53	(N/A)	(N/A)	(N/A)	559.58	0.17	0.05
MH-76	560.54	559.57	(N/A)	(N/A)	559.57	0.03	0.02
MH-75	560.55	559.58	(N/A)	(N/A)	559.58	0.02	0.02
MH-29	560.58	559.63	559.63	(N/A)	559.63	0.08	0.03
MH-352	560.59	555.45	(N/A)	(N/A)	555.45	0.46	0.07
MH-270	560.59	559.64	(N/A)	(N/A)	559.64	0.02	0.02
MH-265	560.63	559.68	(N/A)	(N/A)	559.68	0.02	0.02
MH-460	560.65	557.69	(N/A)	(N/A)	557.69	2.5	0.16
MH-304	560.67	559.72	559.72	(N/A)	559.72	0.07	0.03
MH-264	560.7	559.75	(N/A)	(N/A)	559.75	0.01	0.01
MH-348	560.71	555.81	559.2	559.76	555.81	0.46	0.07
MH-541	560.73	(N/A)	(N/A)	(N/A)	559.78	0.02	0.01
MH-58	560.76	559.81	559.81	(N/A)	559.81	0.06	0.03
MH-213	560.76	559.78	559.5	(N/A)	559.5	0.04	0.03
MH-57	560.77	559.82	(N/A)	(N/A)	559.82	0.06	0.03
MH-149	560.78	559.81	(N/A)	(N/A)	559.81	0.01	0.01
MH-230	560.79	559.84	(N/A)	(N/A)	559.84	0.01	0.01
MH-148	560.81	559.84	(N/A)	(N/A)	559.84	0.01	0.01
MH-289	560.82	556.17	559.87	559.25	556.17	0.45	0.07
MH-180	560.83	559.88	(N/A)	(N/A)	559.88	0.01	0.01
MH-229	560.83	(N/A)	(N/A)	(N/A)	559.88	0.01	0.01
MH-252	560.84	559.89	559.89	(N/A)	559.89	0.05	0.03
MH-545	560.87	558.96	(N/A)	(N/A)	558.96	5.76	0.21
MH-356	560.88	(N/A)	(N/A)	(N/A)	559.93	0	0.01

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-440	560.88	(N/A)	(N/A)	(N/A)	559.93	0.01	0.01
MH-287	560.9	559.95	(N/A)	(N/A)	559.95	0.01	0.01
MH-280	560.91	556.53	559.45	559.96	556.53	0.44	0.06
MH-340	560.94	559.99	559.99	(N/A)	559.99	0.05	0.03
MH-290	560.95	(N/A)	(N/A)	(N/A)	560	0	0.01
MH-522	560.96	(N/A)	(N/A)	(N/A)	560.01	0.04	0.02
MH-459	560.97	557.89	(N/A)	(N/A)	557.89	2.44	0.16
MH-318	560.98	(N/A)	(N/A)	(N/A)	560.03	0	0.01
MH-315	561.05	560.1	556.88	(N/A)	556.88	0.4	0.06
MH-551	561.07	558.05	(N/A)	(N/A)	558.05	0.69	0.08
MH-540	561.08	(N/A)	(N/A)	(N/A)	560.13	0.06	0.03
MH-499	561.2	(N/A)	(N/A)	(N/A)	560.25	0.01	0.01
MH-401	561.23	(N/A)	(N/A)	(N/A)	560.28	0	0.01
MH-337	561.23	560.28	(N/A)	(N/A)	560.28	0.02	0.01
MH-344	561.34	560.39	557.27	(N/A)	557.27	0.39	0.06
MH-504	561.38	(N/A)	(N/A)	(N/A)	560.43	0	0
MH-495	561.46	(N/A)	(N/A)	(N/A)	560.51	0	0.01
MH-406	561.47	(N/A)	(N/A)	(N/A)	560.52	0	0.01
MH-336	561.49	(N/A)	(N/A)	(N/A)	560.54	0.01	0.01
MH-470	561.49	559.86	(N/A)	(N/A)	559.86	0.1	0.04
MH-303	561.62	560.67	557.67	(N/A)	557.67	0.38	0.06
MH-483	561.64	559.47	560.44	(N/A)	559.29	5.69	0.25
MH-528	561.72	558.39	(N/A)	(N/A)	558.39	2.37	0.16
MH-420	561.78	(N/A)	(N/A)	(N/A)	560.83	0	0.01
MH-531	561.8	560.85	559.56	(N/A)	559.56	1.44	0.15
MH-521	561.83	(N/A)	(N/A)	(N/A)	560.88	0.03	0.02
MH-424	561.86	559.72	(N/A)	(N/A)	559.72	0.14	0.05
MH-302	561.86	558.03	560.91	(N/A)	558.03	0.38	0.06
MH-404	561.96	559.75	(N/A)	(N/A)	559.75	1.3	0.11
MH-332	561.96	561.01	(N/A)	(N/A)	561.01	0.08	0.04
MH-137	562	560.85	(N/A)	(N/A)	560.85	0.14	0.05
MH-288	562.07	560.93	(N/A)	(N/A)	560.93	0.08	0.04
MH-537	562.15	559.51	(N/A)	(N/A)	559.49	0.62	0.07
MH-421	562.15	(N/A)	(N/A)	(N/A)	561.2	0.01	0.01
MH-423	562.15	559.63	(N/A)	(N/A)	559.63	0.19	0.06
MH-136	562.16	560.88	(N/A)	(N/A)	560.88	0.09	0.04
MH-331	562.23	561.28	(N/A)	(N/A)	561.28	0.03	0.01
MH-323	562.27	561.32	558.48	(N/A)	558.48	0.36	0.06
MH-527	562.28	558.77	(N/A)	(N/A)	558.77	2.26	0.15
MH-403	562.29	559.95	(N/A)	(N/A)	559.95	1.29	0.11
MH-486	562.5	560.63	(N/A)	(N/A)	560.63	0.17	0.06
MH-360	562.57	(N/A)	(N/A)	(N/A)	561.62	0.01	0.01
MH-390	562.61	560.17	(N/A)	(N/A)	560.17	1.28	0.11
MH-435	562.69	(N/A)	(N/A)	(N/A)	561.68	0.01	0.01
MH-116	562.71	560.47	561.76	(N/A)	560.47	0.2	0.06

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-326	562.75	561.8	558.89	558.89	558.89	0.35	0.06
MH-436	562.77	560.85	559.4	(N/A)	559.28	2.18	0.15
MH-47	562.78	560.35	(N/A)	(N/A)	560.35	1.27	0.11
MH-45	562.79	560.38	560.44	(N/A)	560.38	1.27	0.11
MH-314	562.8	561.85	(N/A)	(N/A)	561.76	0.01	0.01
MH-482	562.83	561.63	(N/A)	(N/A)	561.6	4.25	0.16
MH-437	562.88	561.04	(N/A)	(N/A)	561.04	1.97	0.13
MH-454	562.93	(N/A)	(N/A)	(N/A)	561.98	0.02	0.02
MH-453	562.99	561.85	(N/A)	(N/A)	561.85	0.05	0.03
MH-464	563.02	561.72	(N/A)	(N/A)	561.72	0.08	0.03
MH-519	563.03	561.4	(N/A)	(N/A)	561.4	1.95	0.13
MH-455	563.04	(N/A)	(N/A)	(N/A)	562.09	0.02	0.02
MH-220	563.04	562.07	(N/A)	(N/A)	562.07	0.02	0.01
MH-544	563.08	(N/A)	(N/A)	(N/A)	562.13	0.03	0.02
MH-428	563.1	560.49	560.49	561.75	560.49	0.57	0.07
MH-427	563.1	561.84	(N/A)	(N/A)	561.84	0.08	0.04
MH-443	563.13	561.96	(N/A)	(N/A)	561.96	0.06	0.03
MH-238	563.14	560.56	(N/A)	(N/A)	560.56	1.06	0.09
MH-313	563.22	(N/A)	(N/A)	(N/A)	562.25	0.01	0.01
MH-355	563.31	562.36	558.95	558.95	558.95	0.32	0.08
MH-555	563.39	(N/A)	(N/A)	(N/A)	562.32	1.86	0.13
MH-158	563.48	562.53	562.53	(N/A)	562.53	0.13	0.03
MH-380	563.53	562.58	(N/A)	(N/A)	562.58	0.02	0.01
MH-15	563.64	562.69	562.69	(N/A)	562.69	0.05	0.02
MH-451	563.74	561.83	(N/A)	(N/A)	561.83	0.05	0.03
MH-31	563.79	562.84	562.84	(N/A)	562.84	0.05	0.02
MH-448	563.81	(N/A)	(N/A)	(N/A)	562.72	0.01	0.01
MH-223	563.85	562.9	559.02	(N/A)	559.02	0.28	0.08
MH-366	563.97	(N/A)	(N/A)	(N/A)	563.02	0.01	0.01
MH-392	564.02	561.71	(N/A)	(N/A)	561.71	0.07	0.03
MH-261	564.04	563.09	(N/A)	(N/A)	563.09	0.04	0.02
MH-103	564.17	563.22	(N/A)	(N/A)	563.2	0.16	0.04
MH-363	564.18	563.23	(N/A)	(N/A)	563.23	0.07	0.03
MH-250	564.21	563.26	(N/A)	(N/A)	563.26	0.01	0.01
MH-393	564.23	(N/A)	(N/A)	(N/A)	563.28	0	0
MH-367	564.25	562.95	(N/A)	(N/A)	562.95	0.01	0.01
MH-446	564.33	(N/A)	(N/A)	(N/A)	563.26	0.01	0.01
MH-391	564.35	563.34	561.63	(N/A)	561.56	1.05	0.09
MH-554	564.36	(N/A)	(N/A)	(N/A)	563.41	0.39	0.06
MH-102	564.39	563.44	(N/A)	(N/A)	563.39	0.08	0.03
MH-249	564.59	563.64	(N/A)	(N/A)	563.59	0	0.01
MH-364	564.71	563.76	(N/A)	(N/A)	563.73	0.07	0.02
MH-215	564.78	563.83	(N/A)	(N/A)	563.74	0.07	0.02
MH-488	564.81	561.13	(N/A)	(N/A)	561.13	1.06	0.09
MH-365	565.09	(N/A)	(N/A)	(N/A)	564.14	0	0

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-487	565.27	(N/A)	(N/A)	(N/A)	564.29	0.03	0.02
MH-276	565.29	(N/A)	(N/A)	(N/A)	564.34	0.01	0.02
MH-511	565.3	563.64	(N/A)	(N/A)	563.64	4.23	0.16
MH-359	565.36	(N/A)	(N/A)	(N/A)	564.32	0.05	0.02
MH-37	565.42	564.21	564.28	(N/A)	564.21	0.97	0.09
MH-434	565.47	(N/A)	(N/A)	(N/A)	564.52	0.06	0.02
MH-89	565.54	564.27	(N/A)	(N/A)	564.27	0.95	0.09
MH-510	565.85	(N/A)	(N/A)	(N/A)	564.9	0.03	0.02
MH-515	565.93	(N/A)	(N/A)	(N/A)	564.98	0.03	0.03
MH-33	566.08	564.67	564.7	(N/A)	564.63	0.94	0.09
MH-325	566.16	565.21	(N/A)	(N/A)	565.21	0.28	0.07
MH-324	566.24	(N/A)	(N/A)	(N/A)	565.29	0.28	0.07
MH-297	566.27	564.77	564.75	(N/A)	564.75	0.9	0.13
MH-43	566.41	565.1	565.05	(N/A)	565.02	0.84	0.09
MH-51	566.41	565.1	(N/A)	(N/A)	565.1	0.55	0.09
MH-447	566.67	(N/A)	(N/A)	(N/A)	565.72	0.53	0.07
MH-317	567.1	565.07	565.9	(N/A)	564.84	4.19	0.16
MH-316	567.15	565.26	(N/A)	(N/A)	565.26	0.71	0.08
MH-445	567.62	565.68	(N/A)	(N/A)	565.68	0.7	0.08
MH-467	568.32	566.32	(N/A)	(N/A)	566.32	0.67	0.08
MH-539	568.58	567.38	(N/A)	(N/A)	567.38	3.42	0.14
MH-466	568.95	566.83	(N/A)	(N/A)	566.83	0.64	0.08
MH-463	569.55	568.15	(N/A)	(N/A)	568.15	3.34	0.14
MH-513	569.55	567.62	(N/A)	(N/A)	567.6	0.61	0.07
MH-462	569.57	568.5	(N/A)	(N/A)	568.37	3.1	0.15
MH-514	570.37	569.3	(N/A)	(N/A)	569.3	3.08	0.15
MH-494	570.45	567.88	(N/A)	(N/A)	567.88	0.56	0.11
MH-493	570.98	568.6	(N/A)	(N/A)	568.6	0.5	0.07
MH-187	571.19	(N/A)	(N/A)	(N/A)	570.24	0.07	0.04
MH-523	571.3	570.23	(N/A)	(N/A)	570.23	3.03	0.15
MH-161	571.31	570.2	(N/A)	(N/A)	570.2	0.08	0.04
MH-199	571.33	(N/A)	(N/A)	(N/A)	570.38	0.01	0.01
MH-104	571.41	570.17	(N/A)	(N/A)	570.17	0.08	0.04
MH-200	571.46	570.35	(N/A)	(N/A)	570.35	0.01	0.01
MH-70	571.48	570.15	(N/A)	(N/A)	570.15	0.08	0.04
MH-139	571.53	569.52	(N/A)	(N/A)	569.52	0.47	0.07
MH-71	571.53	570.13	(N/A)	(N/A)	570.13	0.08	0.04
MH-138	571.6	569.69	(N/A)	(N/A)	569.69	0.46	0.07
MH-81	571.61	570.3	(N/A)	(N/A)	570.3	0.01	0.01
MH-82	571.68	570.08	570.28	(N/A)	570.08	0.09	0.04
MH-25	571.72	569.91	569.87	(N/A)	569.87	0.46	0.07
MH-132	571.8	569.9	(N/A)	(N/A)	569.9	0.1	0.05
MH-60	571.82	570.16	(N/A)	(N/A)	570.16	0.35	0.06
MH-59	571.86	570.25	(N/A)	(N/A)	570.25	0.35	0.06
MH-141	571.9	569.92	(N/A)	(N/A)	569.92	0.1	0.04

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-56	571.92	570.38	(N/A)	(N/A)	570.38	0.35	0.06
MH-55	571.93	570.44	570.98	(N/A)	570.44	0.35	0.06
MH-83	571.95	570.56	(N/A)	(N/A)	570.56	0.35	0.06
MH-17	571.97	571.02	569.97	(N/A)	569.97	0.1	0.04
MH-79	572.04	571.09	(N/A)	(N/A)	571.09	0.01	0.01
MH-160	572.08	570.86	570.86	(N/A)	570.86	0.34	0.06
MH-107	572.08	571.13	(N/A)	(N/A)	571.13	0	0.01
MH-80	572.1	571.15	(N/A)	(N/A)	571.15	0.01	0.01
MH-85	572.18	(N/A)	(N/A)	(N/A)	571.23	0	0
MH-159	572.18	571.1	(N/A)	(N/A)	571.1	0.33	0.06
MH-86	572.23	571.21	(N/A)	(N/A)	571.21	0	0.01
MH-162	572.24	571.29	(N/A)	(N/A)	571.29	0	0.01
MH-177	572.3	571.35	(N/A)	(N/A)	571.35	0.32	0.06
MH-90	572.35	571.4	(N/A)	(N/A)	571.4	0	0.01
MH-110	572.36	571.41	(N/A)	(N/A)	571.41	0.01	0.01
MH-91	572.43	571.48	(N/A)	(N/A)	571.48	0	0
MH-111	572.45	571.5	(N/A)	(N/A)	571.5	0.01	0.01
MH-202	572.55	571.6	571.6	(N/A)	571.6	0.32	0.06
MH-322	572.65	(N/A)	(N/A)	(N/A)	571.7	0	0
MH-125	572.69	571.69	(N/A)	(N/A)	571.69	0.01	0.01
MH-203	572.69	571.74	(N/A)	(N/A)	571.74	0.27	0.05
MH-166	572.7	(N/A)	(N/A)	(N/A)	571.75	0	0
MH-209	572.71	571.76	(N/A)	(N/A)	571.76	0.04	0.02
MH-126	572.79	571.72	571.72	(N/A)	571.72	0.01	0.01
MH-498	572.8	571.73	(N/A)	(N/A)	571.73	2.97	0.15
MH-174	572.81	571.86	(N/A)	(N/A)	571.86	0.03	0.02
MH-100	572.85	571.89	(N/A)	(N/A)	571.89	0	0.01
MH-129	572.86	571.85	(N/A)	(N/A)	571.85	0.01	0.01
MH-99	572.86	(N/A)	(N/A)	(N/A)	571.91	0	0
MH-343	572.87	(N/A)	(N/A)	(N/A)	571.92	0	0.01
MH-173	572.91	571.96	(N/A)	(N/A)	571.96	0.03	0.02
MH-67	572.94	571.84	571.84	(N/A)	571.84	0.27	0.06
MH-52	573	571.86	572.05	(N/A)	571.86	0.01	0.05
MH-53	573.02	572.07	(N/A)	(N/A)	572.07	0.01	0.01
MH-198	573.03	572.08	(N/A)	(N/A)	572.08	0.02	0.02
MH-311	573.11	572.11	572.11	(N/A)	572.11	0.26	0.05
MH-170	573.17	572.22	(N/A)	(N/A)	572.22	0.01	0.01
MH-121	573.17	572.22	(N/A)	(N/A)	572.22	0.02	0.01
MH-120	573.26	572.31	(N/A)	(N/A)	572.31	0.01	0.01
MH-66	573.28	572.33	572.17	(N/A)	572.17	0.25	0.07
MH-171	573.29	572.34	(N/A)	(N/A)	572.34	0.01	0.01
MH-65	573.31	572.18	(N/A)	(N/A)	572.18	0.23	0.07
MH-84	573.35	572.4	(N/A)	(N/A)	572.4	0.01	0.01
MH-142	573.37	572.42	(N/A)	(N/A)	572.42	0.01	0.01
MH-357	573.38	572.43	(N/A)	(N/A)	572.43	0.01	0.01

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-92	573.4	572.45	(N/A)	(N/A)	572.45	0.01	0.01
MH-195	573.42	572.22	(N/A)	(N/A)	572.22	0.23	0.07
MH-93	573.48	572.53	(N/A)	(N/A)	572.53	0	0.01
MH-251	573.51	572.56	(N/A)	(N/A)	572.56	0.01	0.01
MH-263	573.53	(N/A)	(N/A)	(N/A)	572.58	0.01	0.01
MH-101	573.55	572.6	(N/A)	(N/A)	572.6	0	0.01
MH-291	573.58	572.27	(N/A)	(N/A)	572.27	0.23	0.07
MH-497	573.59	572.52	(N/A)	(N/A)	572.52	2.91	0.15
MH-61	573.62	572.67	(N/A)	(N/A)	572.67	0.01	0.01
MH-62	573.68	572.72	(N/A)	(N/A)	572.72	0.01	0.01
MH-150	573.7	(N/A)	(N/A)	(N/A)	572.75	0	0.01
MH-48	573.7	572.75	(N/A)	(N/A)	572.75	0.01	0.01
MH-49	573.72	572.77	(N/A)	(N/A)	572.77	0.01	0.01
MH-235	573.72	(N/A)	(N/A)	(N/A)	572.77	0	0
MH-400	573.75	(N/A)	(N/A)	(N/A)	572.8	0	0.01
MH-74	573.76	572.81	(N/A)	(N/A)	572.81	0.01	0.01
MH-371	573.81	572.34	(N/A)	(N/A)	572.34	0.23	0.07
MH-300	573.9	(N/A)	(N/A)	(N/A)	572.95	0.01	0.01
MH-399	574.05	573.1	572.72	(N/A)	572.72	0.02	0.02
MH-109	574.23	572.46	(N/A)	(N/A)	572.46	0.22	0.07
MH-108	574.32	572.48	573.37	(N/A)	572.48	0.22	0.06
MH-414	574.4	(N/A)	(N/A)	(N/A)	573.45	0.01	0.01
MH-469	574.48	(N/A)	(N/A)	(N/A)	573.53	0	0.01
MH-402	574.63	573.3	572.56	(N/A)	572.56	0.19	0.06
MH-456	574.95	(N/A)	(N/A)	(N/A)	574	0.01	0.01
MH-538	574.97	573.43	(N/A)	(N/A)	573.43	2.76	0.14
MH-491	574.98	(N/A)	(N/A)	(N/A)	574.03	0.02	0.01
MH-328	575	573.39	574.05	573.39	573.39	0.17	0.06
MH-471	575.21	(N/A)	(N/A)	(N/A)	574.26	0.01	0.01
MH-232	575.26	573.83	(N/A)	(N/A)	573.83	0.03	0.02
MH-426	575.34	574.39	(N/A)	(N/A)	574.39	0.13	0.04
MH-231	575.43	573.87	573.87	(N/A)	573.87	0.03	0.02
MH-341	575.7	574.12	(N/A)	(N/A)	574.12	0.02	0.01
MH-307	575.8	574.85	(N/A)	(N/A)	574.85	0.11	0.03
MH-306	576.03	575.08	(N/A)	(N/A)	575.08	0.1	0.03
MH-411	576.41	573.86	(N/A)	(N/A)	573.86	2.73	0.18
MH-410	576.91	574.06	574.06	(N/A)	574	2.63	0.17
MH-526	577.04	(N/A)	(N/A)	(N/A)	576.09	0.07	0.03
MH-477	577.55	576.32	(N/A)	(N/A)	576.25	0.98	0.09
MH-476	577.95	577	(N/A)	(N/A)	577	0.63	0.08
MH-106	578.18	577.23	(N/A)	(N/A)	577.23	0.23	0.07
MH-105	578.25	577.21	(N/A)	(N/A)	577.21	0.24	0.07
MH-349	578.41	577.15	575.06	(N/A)	575.06	1.63	0.11
MH-358	578.54	577.59	(N/A)	(N/A)	577.59	0.22	0.05
MH-310	578.69	575.31	(N/A)	(N/A)	575.31	1.37	0.11

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-226	578.81	575.43	(N/A)	(N/A)	575.43	1.36	0.11
MH-225	578.89	575.52	(N/A)	(N/A)	575.52	1.35	0.11
MH-268	578.98	578.03	(N/A)	(N/A)	578.03	0.21	0.04
MH-228	578.98	575.61	(N/A)	(N/A)	575.61	1.34	0.11
MH-130	579.07	575.71	578.12	(N/A)	575.71	1.33	0.11
MH-284	579.11	578.16	(N/A)	(N/A)	578.16	0.02	0.01
MH-269	579.13	578.18	578.18	(N/A)	578.18	0.19	0.04
MH-131	579.13	575.78	(N/A)	(N/A)	575.78	1.31	0.11
MH-186	579.24	578.29	(N/A)	(N/A)	578.29	0.02	0.01
MH-319	579.26	(N/A)	(N/A)	(N/A)	578.31	0.01	0.01
MH-6	579.29	575.96	578.34	(N/A)	575.96	1.3	0.11
MH-327	579.32	578.37	(N/A)	(N/A)	578.37	0.01	0.01
MH-117	579.33	576.05	(N/A)	(N/A)	576.05	1.13	0.1
MH-283	579.35	(N/A)	(N/A)	(N/A)	578.4	0	0
MH-163	579.39	576.13	(N/A)	(N/A)	576.13	1.12	0.1
MH-305	579.4	578.45	(N/A)	(N/A)	578.45	0.18	0.04
MH-217	579.44	578.49	(N/A)	(N/A)	578.49	0.02	0.01
MH-98	579.44	576.22	(N/A)	(N/A)	576.22	1.12	0.1
MH-97	579.47	576.28	(N/A)	(N/A)	576.28	1.12	0.1
MH-128	579.48	578.53	(N/A)	(N/A)	578.53	0.01	0.01
MH-88	579.51	576.35	(N/A)	(N/A)	576.35	1.12	0.1
MH-87	579.54	576.4	578.26	(N/A)	576.4	1.11	0.1
MH-183	579.6	576.5	(N/A)	(N/A)	576.5	1.11	0.1
MH-127	579.62	578.67	(N/A)	(N/A)	578.67	0	0.01
MH-182	579.65	576.59	(N/A)	(N/A)	576.59	1.1	0.1
MH-267	579.67	578.72	(N/A)	(N/A)	578.72	0.02	0.01
MH-255	579.7	576.71	578.75	(N/A)	576.71	1.1	0.1
MH-152	579.72	578.77	(N/A)	(N/A)	578.77	0.17	0.04
MH-308	579.78	578.83	(N/A)	(N/A)	578.83	0.17	0.04
MH-201	579.8	578.85	(N/A)	(N/A)	578.85	0	0.01
MH-153	579.87	578.92	578.92	(N/A)	578.92	0.16	0.04
MH-28	579.91	578.96	578.96	(N/A)	578.96	0.16	0.05
MH-258	579.91	578.96	(N/A)	(N/A)	578.96	0.03	0.02
MH-243	579.92	578.97	(N/A)	(N/A)	578.97	0.01	0.01
MH-175	579.94	578.99	(N/A)	(N/A)	578.99	0.01	0.01
MH-219	580	(N/A)	(N/A)	(N/A)	579.05	0	0
MH-176	580.01	(N/A)	(N/A)	(N/A)	579.06	0.01	0.01
MH-299	580.11	579.09	(N/A)	(N/A)	579.09	0.02	0.02
MH-147	580.11	578.81	577.26	(N/A)	577.22	1.07	0.09
MH-190	580.14	579.19	(N/A)	(N/A)	579.19	0.01	0.02
MH-172	580.15	579.2	(N/A)	(N/A)	579.2	0.01	0.01
MH-191	580.16	579.15	(N/A)	(N/A)	579.15	0.02	0.02
MH-194	580.17	(N/A)	(N/A)	(N/A)	579.22	0	0.01
MH-189	580.18	579.04	(N/A)	(N/A)	579.04	0.37	0.06
MH-212	580.18	579.12	579.12	(N/A)	579.12	0.02	0.02

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-354	580.19	579.24	(N/A)	(N/A)	579.24	0.15	0.04
MH-329	580.19	579.24	(N/A)	(N/A)	579.24	0.12	0.05
MH-146	580.25	577.37	(N/A)	(N/A)	577.37	0.68	0.08
MH-216	580.26	(N/A)	(N/A)	(N/A)	579.31	0.36	0.06
MH-23	580.26	579.31	579.14	(N/A)	579.14	0.02	0.02
MH-155	580.32	579.37	(N/A)	(N/A)	579.37	0.01	0.01
MH-8	580.33	579.19	579.19	(N/A)	579.19	0.14	0.04
MH-50	580.35	579.18	(N/A)	(N/A)	579.18	0	0.01
MH-9	580.36	579.18	579.41	579.41	579.18	0.01	0.02
MH-458	580.36	(N/A)	(N/A)	(N/A)	579.41	0.01	0.01
MH-266	580.39	579.44	(N/A)	(N/A)	579.44	0.01	0.01
MH-94	580.43	579.48	(N/A)	(N/A)	579.48	0.01	0.01
MH-275	580.44	579.49	(N/A)	(N/A)	579.49	0.01	0.01
MH-35	580.47	577.55	579.52	(N/A)	577.52	0.68	0.08
MH-246	580.48	(N/A)	(N/A)	(N/A)	579.53	0	0
MH-154	580.49	579.54	(N/A)	(N/A)	579.54	0.01	0.01
MH-338	580.52	579.57	(N/A)	(N/A)	579.57	0.02	0.01
MH-218	580.56	(N/A)	(N/A)	(N/A)	579.61	0	0
MH-286	580.59	579.64	(N/A)	(N/A)	579.64	0.22	0.06
MH-119	580.6	579.65	(N/A)	(N/A)	579.65	0.11	0.03
MH-309	580.62	579.67	(N/A)	(N/A)	579.67	0.15	0.04
MH-151	580.62	577.72	(N/A)	(N/A)	577.72	0.45	0.07
MH-248	580.64	579.69	(N/A)	(N/A)	579.69	0.01	0.01
MH-118	580.67	579.72	(N/A)	(N/A)	579.72	0.06	0.03
MH-274	580.68	579.73	(N/A)	(N/A)	579.73	0.01	0.01
MH-157	580.68	(N/A)	(N/A)	(N/A)	579.73	0	0.01
MH-242	580.71	(N/A)	(N/A)	(N/A)	579.76	0.01	0.01
MH-156	580.73	579.7	(N/A)	(N/A)	579.7	0.01	0.01
MH-335	580.73	(N/A)	(N/A)	(N/A)	579.78	0.01	0.01
MH-181	580.76	579.81	(N/A)	(N/A)	579.81	0.06	0.03
MH-234	580.81	(N/A)	(N/A)	(N/A)	579.86	0	0.01
MH-285	580.84	579.89	(N/A)	(N/A)	579.89	0.04	0.02
MH-77	580.85	579.8	(N/A)	(N/A)	579.8	0.02	0.01
MH-247	580.88	579.93	(N/A)	(N/A)	579.93	0.01	0.01
MH-164	580.9	579.95	(N/A)	(N/A)	579.95	0.15	0.04
MH-14	580.9	577.96	579.65	(N/A)	577.96	0.45	0.07
MH-78	580.94	579.81	(N/A)	(N/A)	579.81	0.02	0.02
MH-237	580.96	580.01	(N/A)	(N/A)	580.01	0	0.01
MH-165	580.96	580.01	(N/A)	(N/A)	580.01	0.14	0.04
MH-413	581.01	579.28	(N/A)	(N/A)	579.28	0.01	0.01
MH-262	581.01	(N/A)	(N/A)	(N/A)	580.06	0.06	0.02
MH-95	581.04	580.09	(N/A)	(N/A)	580.09	0.14	0.04
MH-257	581.05	578.19	(N/A)	(N/A)	578.19	0.45	0.07
MH-96	581.08	580.13	580.13	(N/A)	580.13	0.14	0.04
MH-185	581.14	580.19	(N/A)	(N/A)	580.19	0.01	0.01

NODE REPORT ZONE 4

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-281	581.15	(N/A)	(N/A)	(N/A)	580.2	0	0.01
MH-236	581.17	(N/A)	(N/A)	(N/A)	580.22	0	0
MH-376	581.19	(N/A)	(N/A)	(N/A)	580.24	0.01	0.01
MH-184	581.21	(N/A)	(N/A)	(N/A)	580.26	0.01	0.01
MH-140	581.23	580.28	(N/A)	(N/A)	580.28	0.13	0.03
MH-144	581.38	580.43	(N/A)	(N/A)	580.43	0.13	0.03
MH-369	581.39	580.44	578.6	(N/A)	578.6	0.44	0.07
MH-387	581.43	579.2	(N/A)	(N/A)	579.2	0.02	0.02
MH-368	581.49	(N/A)	(N/A)	(N/A)	580.54	0.05	0.03
MH-388	581.59	579.12	(N/A)	(N/A)	579.12	0.02	0.02
MH-133	581.59	580.64	(N/A)	(N/A)	580.64	0.12	0.03
MH-383	581.71	(N/A)	(N/A)	(N/A)	580.76	0	0.01
MH-11	581.74	580.48	579.04	(N/A)	579.04	0.4	0.06
MH-12	581.74	580.5	580.5	(N/A)	580.5	0.38	0.06
MH-134	581.74	580.79	(N/A)	(N/A)	580.79	0.12	0.03
MH-377	581.87	(N/A)	(N/A)	(N/A)	580.92	0.22	0.05
MH-135	581.9	580.95	(N/A)	(N/A)	580.95	0.12	0.03
MH-112	581.97	581.02	(N/A)	(N/A)	581.02	0.08	0.03
MH-113	582.03	(N/A)	(N/A)	(N/A)	581.08	0.07	0.03
MH-382	582.07	580.68	(N/A)	(N/A)	580.68	0.03	0.02
MH-409	582.21	580.6	(N/A)	(N/A)	580.6	0.15	0.05

OUT FALL REPORT ZONE 4

ID	Label	Elevation (Ground) (m)	Elevation (Invert) (m)	Hydraulic Grade (m)	Flow (Total Out) (MLD)
588	OF-1	549.85	545.36	545.36	25.2022

ZONE – VI

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-267	MH-744	MH-736	585.7	586.02	581.75	581.59	45.7	150	0.6	288.03	0.896	0.457	4	3.8	4.27	47	0.011	Concrete
CO-84	MH-594	MH-128	574.85	574.89	571	570.99	11.1	150	0.11	1,000.00	0.481	0.005	3.7	3.7	3.75	18.2	0.011	Concrete
CO-269	MH-741	MH-744	585.37	585.7	581.93	581.75	46.8	150	0.6	264.36	0.935	0.403	3.5	3.29	3.8	47.6	0.011	Concrete
z6co-1802	MH-128	MH-129	574.89	574.15	570.99	570.96	24.4	150	0.21	1,000.00	0.481	0.052	3.4	3.75	3.04	22.6	0.011	Concrete
z6co-261	MH-331	MH-332	575	575	571.94	571.63	33.1	150	0.6	110.08	1.449	0.132	3.1	2.91	3.22	21.7	0.011	Concrete
z6co-1803	MH-129	MH-39	574.15	574.15	570.96	570.94	27.7	150	0.22	1,000.00	0.481	0.058	3.1	3.04	3.06	19.2	0.011	Concrete
z6co-2140	MH-792	MH-809	604.32	604.28	601.36	601.06	67.5	150	0.6	225.01	1.013	0.323	2.9	2.81	3.07	37.6	0.011	Concrete
CO-268	MH-1025	MH-741	585.01	585.37	582.33	581.93	50.9	150	0.6	126.22	1.353	0.157	2.9	2.54	3.29	35.3	0.011	Concrete
z6co-268	MH-922	MH-994	575	575	572.49	571.45	122.1	150	0.69	116.75	1.407	0.227	2.9	2.36	3.4	42.1	0.011	Concrete
z6co-2139	MH-791	MH-792	604.85	604.32	601.76	601.36	63.6	150	0.6	160.11	1.201	0.208	2.9	2.94	2.81	33.8	0.011	Concrete
z6co-1086	MH-866	MH-224	580.02	580.51	577.63	576.95	80	150	0.6	116.42	1.409	0.141	2.8	2.24	3.41	29.8	0.011	Concrete
CO-54	MH-164	MH-331	575	575	572.22	571.94	29.7	150	0.6	105.15	1.482	0.123	2.8	2.63	2.91	22.8	0.011	Concrete
z6co-757	MH-55	MH-164	575	575	572.46	572.22	24.3	150	0.6	103.04	1.497	0.121	2.5	2.39	2.63	22.4	0.011	Concrete
z6co-1854	MH-288	MH-780	578.13	578.91	575.92	575.85	66.4	150	0.19	1,000.00	0.481	0.039	2.5	2.06	2.91	19.5	0.011	Concrete
CO-27	MH-7	MH-410	602.61	602.51	600.06	599.9	46.6	150	0.6	287.24	0.897	0.455	2.4	2.39	2.46	46.9	0.011	Concrete
z6co-543	MH-223	MH-224	580.81	580.51	578.16	578.06	27.2	150	0.6	256.64	0.949	0.386	2.4	2.49	2.3	42.1	0.011	Concrete
z6co-255	MH-198	MH-603	575	574.98	572.78	572.12	66.2	150	0.6	100.16	1.519	0.117	2.4	2.07	2.71	30.4	0.011	Concrete
CO-266	MH-742	MH-7	602.63	602.61	600.11	600.06	12.5	150	0.6	271.52	0.922	0.42	2.4	2.37	2.39	48.2	0.011	Concrete
CO-172	MH-1060	MH-804	601.94	597.29	597.96	596.34	162.5	150	1.06	100	1.52	0.916	2.3	3.83	0.8	59.3	0.011	Concrete
z6co-756	MH-54	MH-55	575	575	572.62	572.46	16.1	150	0.6	100.62	1.515	0.12	2.3	2.23	2.39	22.2	0.011	Concrete
z6co-2129	MH-944	MH-945	605.93	605.29	603.37	603	102	150	0.6	280.71	0.907	0.44	2.3	2.41	2.14	63.8	0.011	Concrete
z6co-2109	MH-86	MH-741	585.12	585.37	583.03	582.63	60.4	150	0.6	154.27	1.224	0.201	2.3	1.95	2.58	28	0.011	Concrete
z6co-1764	MH-200	MH-199	575.56	575.84	573.3	573.28	26.1	150	0.22	1,000.00	0.481	0.064	2.3	2.11	2.41	27.1	0.011	Concrete
z6co-1808	MH-593	MH-594	572	574.85	571.05	571	51	150	0.09	1,000.00	0.481	0.003	2.3	0.8	3.7	10.2	0.011	Concrete
z6co-2324	MH-360	MH-359	588.12	587.42	585.5	585.32	35.4	150	0.6	193.32	1.093	0.265	2.2	2.47	1.95	34.3	0.011	Concrete
z6co-472	MH-1074	MH-852	612.14	606.68	608.39	605.73	266.1	150	0.9	100	1.52	0.485	2.2	3.6	0.8	41.9	0.011	Concrete
z6co-978	MH-153	MH-7	588.5	588.25	586.18	585.89	53.3	150	0.7	183.15	1.123	0.438	2.2	2.17	2.21	43	0.011	Concrete
CO-211	MH-6	MH-153	588.7	588.5	586.39	586.18	48.7	150	0.6	236.06	0.989	0.344	2.2	2.16	2.17	41.6	0.011	Concrete
CO-210	MH-773	MH-6	588.79	588.7	586.49	586.39	21.2	150	0.6	211.21	1.046	0.296	2.2	2.15	2.16	38	0.011	Concrete
CO-259	MH-841	MH-1025	584.79	585.01	582.87	582.33	60.5	150	0.6	111.36	1.44	0.134	2.2	1.77	2.54	24.4	0.011	Concrete
z6co-2224	MH-493	MH-494	594	594.27	591.86	591.82	41.6	150	0.4	1,000.00	0.529	0.521	2.1	1.98	2.3	60.6	0.01	Concrete
z6co-2082	MH-89	MH-723	587.85	588.36	586.04	585.61	56.8	150	0.61	131.19	1.327	0.179	2.1	1.66	2.6	25.8	0.011	Concrete
z6co-542	MH-368	MH-223	580.34	580.81	578.51	578.16	78.9	150	0.6	229.73	1.003	0.331	2.1	1.69	2.49	41.4	0.011	Concrete
z6co-677	MH-51	MH-198	575	575	572.81	572.78	25.9	150	0.23	1,000.00	0.481	0.072	2.1	2.04	2.07	23.9	0.011	Concrete
z6co-755	MH-252	MH-54	575	575	572.98	572.62	36.9	150	0.6	100.46	1.517	0.118	2	1.87	2.23	22	0.011	Concrete
z6co-1746	MH-50	MH-51	575	575	572.82	572.81	16	150	0.23	1,000.00	0.481	0.07	2	2.03	2.04	25.7	0.011	Concrete
z6co-1209	MH-379	MH-50	575	575	572.86	572.82	36.6	150	0.22	1,000.00	0.481	0.066	2	1.99	2.03	25.2	0.011	Concrete
z6co-2128	MH-789	MH-944	605.76	605.93	604.01	603.37	153.5	150	0.6	236.77	0.988	0.345	2	1.6	2.41	44.3	0.011	Concrete
z6co-193	MH-427	MH-379	575	575	572.9	572.86	38.5	150	0.22	1,000.00	0.481	0.063	2	1.95	1.99	24.5	0.011	Concrete
z6co-1279	MH-935	MH-981	575	575	572.95	572.84	112.4	150	0.16	1,000.00	0.481	0.02	2	1.9	2.01	11.3	0.011	Concrete
z6co-2138	MH-423	MH-791	604.97	604.85	603.88	601.76	220.2	150	0.6	103.83	1.492	0.124	1.9	0.94	2.94	26	0.011	Concrete
z6co-1755	MH-226	MH-427	575	575	572.94	572.9	45.5	150	0.18	1,000.00	0.481	0.033	1.9	1.91	1.95	20.8	0.011	Concrete
z6co-2223	MH-858	MH-493	594.2	594	592.2	591.86	77.7	150	0.6	233.77	0.994	0.339	1.9	1.86	1.98	56.9	0.011	Concrete
z6co-1535	MH-44	MH-45	589.96	590.14	588.05	587.92	15.2	150	0.6	123.11	1.37	0.151	1.9	1.76	2.07	23.5	0.011	Concrete
CO-61	MH-395	MH-226	575	575	572.95	572.94	7.9	150	0.17	1,000.00	0.481	0.027	1.9	1.9	1.91	16.9	0.011	Concrete
z6co-477	MH-1038	MH-1039	609.37	605.53	606.23	604.58	164.6	150	0.47	100	1.52	0.051	1.9	2.99	0.8	25.6	0.011	Concrete
z6co-2191	MH-1022	MH-803	600.65	596.99	597.52	596.04	148	150	0.73	100	1.52	0.23	1.9	2.99	0.8	32.7	0.011	Concrete
z6co-1777	MH-396	MH-395	575	575	572.96	572.95	11.4	150	0.17	1,000.00	0.481	0.023	1.9	1.89	1.9	15.7	0.011	Concrete
z6co-212	MH-158	MH-200	575.16	575.56	573.34	573.3	35.2	150	0.22	1,000.00	0.481	0.058	1.9	1.67	2.11	23.9	0.011	Concrete
CO-98	MH-962	MH-993	609.44	606.11	606.31	605.16	115.2	150	0.65	100	1.52	0.154	1.9	2.98	0.8	23.2	0.011	Concrete
z6co-1778	MH-556	MH-396	575	575	573	572.96	35.9	150	0.16	1,000.00	0.481	0.022	1.9	1.85	1.89	14.6	0.011	Concrete
z6co-1287	MH-251	MH-252	575	575	573.01	572.98	28.8	150	0.26	1,000.00	0.481	0.107	1.9	1.84	1.87	26.8	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-2221	MH-1034	MH-858	598.29	594.2	595.24	593.25	199	150	0.51	100	1.52	0.067	1.8	2.89	0.8	15.3	0.011	Concrete
z6co-2119	MH-790	MH-425	606.72	606.76	604.78	604.71	67.9	150	0.4	1,000.00	0.529	0.493	1.8	1.79	1.9	74.2	0.01	Concrete
CO-26	MH-105	MH-844	578.17	577.91	576.99	575.15	224.4	150	0.38	122.05	1.376	0.032	1.8	1.03	2.61	10.8	0.011	Concrete
z6co-2111	MH-85	MH-86	584.99	585.12	583.16	583.03	18.4	150	0.6	138.55	1.291	0.176	1.8	1.69	1.95	27.8	0.011	Concrete
z6co-2095	MH-1048	MH-764	585.06	585.87	584.11	582.91	184.4	150	0.6	152.78	1.23	0.198	1.8	0.8	2.81	27.7	0.011	Concrete
z6co-789	MH-462	MH-288	577.66	578.13	575.96	575.92	41.4	150	0.16	1,000.00	0.481	0.022	1.8	1.55	2.06	16.6	0.011	Concrete
z6co-1891	MH-1077	MH-784	578.36	578.03	577.41	575.08	279.3	150	0.23	119.88	1.388	0.007	1.8	0.8	2.8	5	0.011	Concrete
z6co-60	MH-367	MH-368	580.74	580.34	578.69	578.51	35.7	150	0.6	196.11	1.085	0.269	1.8	1.9	1.69	36.3	0.011	Concrete
z6co-474	MH-961	MH-962	612.46	609.44	609.54	608.49	104.6	150	0.61	100	1.52	0.121	1.8	2.78	0.8	20.6	0.011	Concrete
z6co-2284	MH-425	MH-478	606.76	606.49	604.71	604.67	40.9	150	0.4	1,000.00	0.529	0.518	1.8	1.9	1.67	60.4	0.01	Concrete
z6co-2442	MH-978	MH-604	574	574.94	573.05	572.04	112.2	150	0.15	111.47	1.44	0.001	1.8	0.8	2.75	21.1	0.011	Concrete
z6co-2243	MH-671	MH-825	603.88	603.81	602.15	601.77	71	150	0.6	187.02	1.111	0.253	1.7	1.59	1.89	42.2	0.011	Concrete
z6co-909	MH-923	MH-545	580.24	581.74	579.29	578.94	93.8	150	0.6	269.94	0.925	0.416	1.7	0.8	2.65	44.9	0.011	Concrete
CO-43	MH-70	MH-375	579.17	578.89	577.27	577.04	39.5	150	0.6	172.41	1.158	0.231	1.7	1.74	1.7	31.1	0.011	Concrete
z6co-904	MH-375	MH-413	578.89	578.66	577.04	576.79	44.6	150	0.6	174.99	1.149	0.235	1.7	1.7	1.72	31.6	0.011	Concrete
CO-261	MH-881	MH-841	584.69	584.79	582.9	582.87	26.6	150	0.24	1,000.00	0.481	0.089	1.7	1.64	1.77	26.1	0.011	Concrete
z6co-2130	MH-945	MH-809	605.29	604.28	603	602.87	130.8	150	0.4	1,000.00	0.529	0.523	1.7	2.14	1.26	63.3	0.01	Concrete
z6co-1609	MH-536	MH-367	580.48	580.74	578.92	578.69	44.2	150	0.6	188.99	1.106	0.257	1.7	1.41	1.9	33.1	0.011	Concrete
z6co-1539	MH-88	MH-89	587.98	587.85	586.2	586.04	18.9	150	0.6	117.96	1.4	0.143	1.6	1.63	1.66	25.7	0.011	Concrete
CO-29	MH-893	MH-742	602.02	602.63	600.96	600.11	207.9	150	0.6	244.2	0.973	0.361	1.6	0.91	2.37	44.2	0.011	Concrete
z6co-2346	MH-857	MH-360	587.37	588.12	586.42	585.5	132.8	150	0.6	145.52	1.26	0.186	1.6	0.8	2.47	30.4	0.011	Concrete
z6co-623	MH-817	MH-964	582.98	584.51	582.03	581.9	132.6	150	0.22	1,000.00	0.481	0.06	1.6	0.8	2.46	19.5	0.011	Concrete
z6co-1088	MH-859	MH-269	579.73	580.18	578.22	578.14	76.9	150	0.24	1,000.00	0.481	0.08	1.6	1.37	1.89	22.6	0.011	Concrete
z6co-2323	MH-359	MH-465	587.42	586.36	585.32	584.96	43.5	150	0.73	121.07	1.381	0.3	1.6	1.95	1.25	36.7	0.011	Concrete
z6co-1843	MH-305	MH-335	575	575	573.33	573.18	33.5	150	0.6	220.71	1.023	0.315	1.6	1.52	1.67	43.3	0.011	Concrete
z6co-746	MH-921	MH-922	574	575	573.05	572.49	92.9	150	0.6	167.37	1.175	0.219	1.6	0.8	2.36	30.4	0.011	Concrete
CO-20	MH-1046	MH-959	606.09	605.99	604.36	604.26	96.7	150	0.4	1,000.00	0.529	0.499	1.6	1.58	1.58	62	0.01	Concrete
CO-263	MH-889	MH-881	584.57	584.69	582.93	582.9	33.3	150	0.22	1,000.00	0.481	0.066	1.6	1.48	1.64	26.8	0.011	Concrete
CO-127	MH-413	MH-354	578.66	578.07	576.79	576.53	46.8	150	0.6	180.54	1.131	0.244	1.6	1.72	1.39	32	0.011	Concrete
z6co-980	MH-758	MH-773	588.09	588.79	587.01	586.49	69.9	150	0.6	133.69	1.315	0.166	1.5	0.93	2.15	31	0.011	Concrete
CO-201	MH-144	MH-133	587.6	587.16	585.84	585.55	42.5	150	0.6	144.48	1.265	0.184	1.5	1.61	1.46	28.9	0.011	Concrete
CO-271	MH-985	MH-85	584.89	584.99	583.36	583.16	27.3	150	0.6	134.27	1.312	0.167	1.5	1.38	1.69	26.6	0.011	Concrete
z6co-695	MH-159	MH-158	574.89	575.16	573.36	573.34	23.5	150	0.2	1,000.00	0.481	0.047	1.5	1.37	1.67	22.1	0.011	Concrete
z6co-1085	MH-912	MH-866	579.46	580.02	578.51	577.63	91.3	150	0.6	104.31	1.488	0.122	1.5	0.8	2.24	23.2	0.011	Concrete
z6co-2118	MH-750	MH-790	606.7	606.72	605.32	604.78	110	150	0.6	202.52	1.068	0.284	1.5	1.23	1.79	54.8	0.011	Concrete
z6co-2227	MH-340	MH-493	593.73	594	592.54	591.86	103	150	0.46	151.59	1.235	0.077	1.5	1.04	1.98	45.8	0.011	Concrete
CO-119	MH-553	MH-43	603.92	603.5	602.13	601.96	45.2	150	0.6	266.33	0.931	0.407	1.5	1.64	1.39	46.8	0.011	Concrete
z6co-1422	MH-171	MH-70	578.9	579.17	577.48	577.27	24.6	150	0.6	119.98	1.388	0.146	1.5	1.27	1.74	27.7	0.011	Concrete
z6co-2252	MH-417	MH-418	586.87	586.76	585.23	585.09	27.4	150	0.6	190.29	1.102	0.259	1.5	1.49	1.53	36.6	0.011	Concrete
z6co-981	MH-898	MH-153	587.68	588.5	586.73	586.18	87.2	150	0.35	159.27	1.204	0.032	1.5	0.8	2.17	27.2	0.011	Concrete
z6co-967	MH-143	MH-144	587.36	587.6	585.86	585.84	21.9	150	0.19	1,000.00	0.481	0.041	1.5	1.35	1.61	23.9	0.011	Concrete
CO-200	MH-133	MH-417	587.16	586.87	585.55	585.23	53.7	150	0.6	168.78	1.17	0.221	1.5	1.46	1.49	31.6	0.011	Concrete
z6co-1592	MH-195	MH-626	582.25	582.81	580.95	580.89	65	150	0.19	1,000.00	0.481	0.037	1.5	1.15	1.77	30.2	0.011	Concrete
z6co-197	MH-182	MH-198	574	575	573.01	572.78	34.2	150	0.37	149.13	1.245	0.037	1.5	0.84	2.07	17	0.011	Concrete
CO-103	MH-897	MH-1046	606.13	606.09	604.67	604.36	85.8	150	0.6	279.8	0.909	0.438	1.4	1.31	1.58	62	0.011	Concrete
z6co-1207	MH-260	MH-427	575	575	573.43	573.38	51	150	0.17	1,000.00	0.481	0.025	1.4	1.42	1.47	12.6	0.011	Concrete
z6co-1242	MH-339	MH-198	574	575	573.05	572.78	33.7	150	0.21	124.15	1.364	0.005	1.4	0.8	2.07	13.1	0.011	Concrete
CO-102	MH-257	MH-202	573.55	571.99	571.34	571.04	29.8	150	0.45	100	1.52	0.045	1.4	2.06	0.8	12.6	0.011	Concrete
z6co-300	MH-891	MH-288	577.55	578.13	576.6	575.92	85.6	150	0.27	125.62	1.356	0.01	1.4	0.8	2.06	12.7	0.011	Concrete
z6co-291	MH-306	MH-305	575	575	573.51	573.33	29	150	0.6	160.19	1.201	0.208	1.4	1.34	1.52	33.5	0.011	Concrete
CO-198	MH-146	MH-144	587.95	587.6	586.36	586.04	33.6	150	0.6	106.35	1.474	0.127	1.4	1.44	1.41	21.3	0.011	Concrete
z6co-697	MH-349	MH-348	575	575	573.45	573.42	34.7	150	0.19	1,000.00	0.481	0.034	1.4	1.4	1.43	18.9	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-1230	MH-348	MH-159	575	574.89	573.42	573.36	55.4	150	0.2	1,000.00	0.481	0.042	1.4	1.43	1.37	20.4	0.011	Concrete
z6co-2127	MH-788	MH-789	605.68	605.76	604.37	604.01	63.1	150	0.6	178.79	1.137	0.241	1.4	1.17	1.6	35.9	0.011	Concrete
CO-12	MH-1067	MH-4	583.71	584.42	582.76	582.3	95	150	0.67	208.09	1.054	0.447	1.4	0.8	1.96	44.4	0.011	Concrete
CO-16	MH-4	MH-5	584.42	581.27	582.3	580.32	197.9	150	0.88	100	1.52	0.451	1.4	1.96	0.8	40.3	0.011	Concrete
z6co-801	MH-354	MH-25	578.07	577.85	576.53	576.33	36.6	150	0.6	182.95	1.124	0.249	1.4	1.39	1.37	32.4	0.011	Concrete
z6co-2080	MH-37	MH-88	587.53	587.98	586.25	586.2	49.3	150	0.24	1,000.00	0.481	0.082	1.4	1.13	1.63	25.9	0.011	Concrete
CO-75	MH-880	MH-349	575	575	573.49	573.45	38.9	150	0.17	1,000.00	0.481	0.026	1.4	1.36	1.4	16.8	0.011	Concrete
z6co-2174	MH-924	MH-914	599.41	596.47	597.32	595.52	179.6	150	0.85	100	1.52	0.396	1.4	1.95	0.8	37.7	0.011	Concrete
CO-225	MH-500	MH-520	582.51	582.41	580.98	580.88	28.4	150	0.6	282.3	0.905	0.444	1.4	1.37	1.38	57	0.011	Concrete
CO-63	MH-25	MH-235	577.85	577.77	576.33	576.24	15.9	150	0.6	189.2	1.105	0.257	1.4	1.37	1.38	32.7	0.011	Concrete
CO-224	MH-520	MH-262	582.41	582.38	580.88	580.87	10.2	150	0.4	1,000.00	0.529	0.476	1.4	1.38	1.36	63.2	0.01	Concrete
CO-257	MH-614	MH-966	583.41	584.4	582.46	582.33	120.8	150	0.26	1,000.00	0.481	0.108	1.4	0.8	1.92	26.3	0.011	Concrete
z6co-2265	MH-901	MH-228	597.48	595.48	595.42	594.53	88.8	150	0.62	100	1.52	0.133	1.4	1.91	0.8	24.8	0.011	Concrete
CO-193	MH-117	MH-667	588.2	588.37	586.79	586.77	17.5	150	0.21	1,000.00	0.481	0.053	1.4	1.26	1.45	44.1	0.011	Concrete
CO-48	MH-1035	MH-12	592.78	593.48	591.83	591.42	102.3	150	0.6	249.66	0.962	0.372	1.4	0.8	1.91	41.1	0.011	Concrete
z6co-744	MH-934	MH-935	574	575	573.05	572.95	97.4	150	0.14	1,000.00	0.481	0.014	1.3	0.8	1.9	12.7	0.011	Concrete
CO-227	MH-262	MH-607	582.38	582.35	580.87	580.87	8.3	150	0.4	1,000.00	0.529	0.478	1.3	1.36	1.34	53.1	0.01	Concrete
z6co-1273	MH-885	MH-331	574	575	573.05	572.97	82.9	150	0.1	1,000.00	0.481	0.005	1.3	0.8	1.88	5.7	0.011	Concrete
z6co-1860	MH-484	MH-462	577.37	577.66	576.09	575.96	46.6	150	0.17	339.39	0.825	0.008	1.3	1.12	1.55	10.6	0.011	Concrete
z6co-963	MH-120	MH-121	588.14	588.34	586.77	586.75	21.3	150	0.19	1,000.00	0.481	0.04	1.3	1.22	1.44	24.3	0.011	Concrete
CO-37	MH-1006	MH-1020	608.96	606.52	606.95	605.57	138.3	150	0.76	100	1.52	0.267	1.3	1.86	0.8	41.4	0.011	Concrete
z6co-2222	MH-932	MH-858	593.24	594.2	592.29	592.2	96.3	150	0.26	1,000.00	0.481	0.11	1.3	0.8	1.86	35.9	0.011	Concrete
z6co-1779	MH-666	MH-556	574	575	573.05	573	52.3	150	0.14	1,000.00	0.481	0.013	1.3	0.8	1.85	12.8	0.011	Concrete
z6co-2039	MH-145	MH-146	587.74	587.95	586.38	586.36	22	150	0.18	1,000.00	0.481	0.029	1.3	1.21	1.44	19.8	0.011	Concrete
z6co-2207	MH-1002	MH-1001	597.06	597.59	596.11	595.59	123.8	150	0.6	234.22	0.993	0.34	1.3	0.8	1.85	42.3	0.011	Concrete
z6co-1286	MH-376	MH-251	574	575	573.05	573.01	36.5	150	0.25	1,000.00	0.481	0.103	1.3	0.8	1.84	31.4	0.011	Concrete
z6co-311	MH-463	MH-462	577.23	577.66	575.99	575.96	35.7	150	0.13	1,000.00	0.481	0.01	1.3	1.08	1.55	12.1	0.011	Concrete
z6co-1332	MH-235	MH-236	577.77	577.55	576.24	576.17	14.2	150	0.6	189.55	1.104	0.258	1.3	1.38	1.23	33	0.011	Concrete
z6co-2122	MH-726	MH-790	607.12	606.72	605.71	605.23	63.4	150	0.6	133.83	1.314	0.167	1.3	1.27	1.34	25	0.011	Concrete
CO-139	MH-548	MH-504	575.43	575.25	573.9	573.88	18.5	150	0.4	1,000.00	0.529	0.503	1.3	1.38	1.22	57	0.01	Concrete
z6co-972	MH-112	MH-113	589.05	589.24	587.71	587.69	20.3	150	0.19	1,000.00	0.481	0.036	1.3	1.19	1.41	39.8	0.011	Concrete
z6co-727	MH-328	MH-128	573.99	574.89	573.01	572.97	33.4	150	0.2	1,000.00	0.481	0.045	1.3	0.83	1.77	16.9	0.011	Concrete
z6co-439	MH-566	MH-720	579.42	579.72	578.21	578.04	62.3	150	0.36	379.6	0.78	0.106	1.3	1.07	1.52	29.1	0.011	Concrete
z6co-2282	MH-822	MH-819	592.42	592.88	591.47	590.95	68.3	150	0.6	130.05	1.333	0.161	1.3	0.8	1.78	24.4	0.011	Concrete
z6co-2105	MH-842	MH-841	584.28	584.79	583.33	582.87	60.6	150	0.35	133.59	1.315	0.028	1.3	0.8	1.77	17	0.011	Concrete
z6co-2076	MH-580	MH-44	589.44	589.96	588.49	588.05	47.2	150	0.6	106.83	1.471	0.128	1.3	0.8	1.76	23.9	0.011	Concrete
z6co-944	MH-113	MH-116	589.24	588.85	587.69	587.54	38.3	150	0.6	269.6	0.926	0.415	1.3	1.41	1.15	53.8	0.011	Concrete
CO-192	MH-57	MH-667	588.56	588.37	587.05	587.03	20.5	150	0.21	1,000.00	0.481	0.054	1.3	1.37	1.19	18.5	0.011	Concrete
CO-274	MH-1049	MH-1052	591.81	589.43	589.91	588.48	143	150	0.96	100	1.52	0.615	1.3	1.75	0.8	47.6	0.011	Concrete
z6co-2213	MH-724	MH-725	595.62	596.5	594.67	594.61	57.7	150	0.26	1,000.00	0.481	0.111	1.3	0.8	1.73	26.8	0.011	Concrete
CO-199	MH-121	MH-146	588.34	587.95	586.75	586.71	37.9	150	0.24	1,000.00	0.481	0.086	1.3	1.44	1.09	23.5	0.011	Concrete
z6co-2044	MH-132	MH-133	586.96	587.16	585.76	585.55	21.6	150	0.34	103.75	1.492	0.018	1.3	1.05	1.46	19.4	0.011	Concrete
z6co-919	MH-971	MH-925	578.87	579.62	577.92	577.76	109.9	150	0.24	709.33	0.571	0.057	1.3	0.8	1.71	32.3	0.011	Concrete
z6co-69	MH-911	MH-368	579.83	580.34	578.88	578.51	90.9	150	0.33	240.15	0.981	0.045	1.2	0.8	1.69	26.7	0.011	Concrete
CO-120	MH-43	MH-801	603.5	602.93	601.96	601.71	69.8	150	0.6	278.52	0.911	0.435	1.2	1.39	1.06	48.6	0.011	Concrete
z6co-2106	MH-882	MH-881	584.1	584.69	583.15	582.9	84	150	0.19	333.36	0.833	0.01	1.2	0.8	1.64	18.2	0.011	Concrete
z6co-771	MH-369	MH-306	575	575	573.75	573.51	36.9	150	0.6	152.45	1.231	0.197	1.2	1.1	1.34	28.9	0.011	Concrete
z6co-2170	MH-1007	MH-553	604.29	603.92	603.34	602.13	128.6	150	0.6	106.25	1.475	0.127	1.2	0.8	1.64	34.2	0.011	Concrete
z6co-52	MH-71	MH-72	580.78	580.97	579.52	579.5	17.3	150	0.17	1,000.00	0.481	0.027	1.2	1.11	1.31	13.2	0.011	Concrete
z6co-1205	MH-796	MH-183	575	575	573.97	573.33	70.8	150	0.35	109.44	1.453	0.02	1.2	0.88	1.52	9.6	0.011	Concrete
CO-105	MH-461	MH-726	607.16	607.12	605.89	605.71	19	150	0.6	104.47	1.487	0.123	1.2	1.13	1.27	24.3	0.011	Concrete
z6co-910	MH-969	MH-719	579.14	579.69	578.19	577.95	108.2	150	0.27	453.75	0.714	0.049	1.2	0.8	1.59	27.5	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-156	MH-591	MH-671	603.14	603.88	602.19	602.15	48	150	0.22	1,000.00	0.481	0.061	1.2	0.8	1.59	28.1	0.011	Concrete
z6co-2161	MH-958	MH-959	606.24	605.99	605.29	604.26	104.3	150	0.65	101.52	1.509	0.16	1.2	0.8	1.58	36.9	0.011	Concrete
z6co-1050	MH-691	MH-797	581.66	581.5	580.36	580.14	63.6	150	0.6	284.79	0.901	0.449	1.2	1.15	1.21	47.2	0.011	Concrete
z6co-1749	MH-183	MH-182	575	574	573.33	573.05	27.7	150	0.38	100	1.52	0.026	1.2	1.52	0.8	9.6	0.011	Concrete
CO-128	MH-718	MH-344	576.1	575	574.43	574.05	38.2	150	0.96	100	1.672	0.479	1.2	1.52	0.8	59.6	0.01	Concrete
z6co-56	MH-406	MH-67	580.05	580.5	579.03	578.89	38.7	150	0.6	270.12	0.925	0.416	1.2	0.87	1.45	44.2	0.011	Concrete
z6co-2006	MH-1051	MH-1052	592.12	589.43	590.48	588.48	200.3	150	1.04	100	1.52	0.849	1.1	1.49	0.8	56.9	0.011	Concrete
CO-131	MH-45	MH-818	577.05	576.99	575.79	575.66	19.6	150	0.71	157.98	1.209	0.381	1.1	1.11	1.18	40.2	0.011	Concrete
z6co-1838	MH-495	MH-548	575	575.43	573.94	573.9	41.4	150	0.4	1,000.00	0.529	0.497	1.1	0.91	1.38	70.4	0.01	Concrete
z6co-2042	MH-731	MH-417	586.57	586.87	585.62	585.23	43.1	150	0.32	111.02	1.443	0.017	1.1	0.8	1.49	20.5	0.011	Concrete
z6co-2107	MH-890	MH-889	583.97	584.57	583.02	582.93	85.6	150	0.18	1,000.00	0.481	0.031	1.1	0.8	1.48	20.9	0.011	Concrete
z6co-473	MH-853	MH-852	608.11	606.68	606.51	605.73	77.2	150	0.81	100	1.52	0.333	1.1	1.46	0.8	34.4	0.011	Concrete
z6co-1728	MH-258	MH-257	574.5	573.55	572.89	572.6	29.1	150	0.43	100	1.52	0.04	1.1	1.46	0.8	11.8	0.011	Concrete
CO-81	MH-189	MH-443	575	574	573.39	573.05	34.6	150	0.38	100	1.52	0.026	1.1	1.46	0.8	14.9	0.011	Concrete
z6co-1049	MH-662	MH-691	581.81	581.66	580.55	580.36	50.6	150	0.6	268.67	0.927	0.413	1.1	1.1	1.15	47.7	0.011	Concrete
z6co-2192	MH-803	MH-804	596.99	597.29	596.04	595.71	67.1	150	0.6	202.84	1.067	0.28	1.1	0.8	1.43	49.6	0.011	Concrete
CO-191	MH-124	MH-416	589.56	589.72	588.38	588.37	16.9	150	0.17	1,000.00	0.481	0.028	1.1	1.02	1.2	36.7	0.011	Concrete
z6co-1333	MH-236	MH-319	577.55	577.08	576.17	575.95	42.9	150	0.6	193.65	1.092	0.265	1.1	1.23	0.99	35.8	0.011	Concrete
CO-204	MH-3	MH-52	587.66	587.4	586.41	586.14	70.4	150	0.42	261.76	0.94	0.112	1.1	1.11	1.11	35.5	0.011	Concrete
z6co-672	MH-259	MH-260	574.41	575	573.46	573.43	29.1	150	0.16	1,000.00	0.481	0.021	1.1	0.8	1.42	14.7	0.011	Concrete
z6co-412	MH-1005	MH-853	610	608.11	608.43	607.16	127.1	150	0.78	100	1.52	0.286	1.1	1.41	0.8	31.8	0.011	Concrete
CO-248	MH-431	MH-767	582.83	582.76	581.55	581.53	20.5	150	0.26	1,000.00	0.481	0.108	1.1	1.13	1.08	28.4	0.011	Concrete
z6co-68	MH-633	MH-536	580.2	580.48	579.25	578.92	49.8	150	0.6	152.07	1.233	0.197	1.1	0.8	1.41	30.6	0.011	Concrete
CO-251	MH-767	MH-387	582.76	582.75	581.53	581.47	21.1	150	0.38	364.07	0.797	0.115	1.1	1.08	1.13	28.3	0.011	Concrete
z6co-914	MH-699	MH-700	579.48	579.74	578.53	578.19	54.7	150	0.37	160.89	1.198	0.042	1.1	0.8	1.4	19.7	0.011	Concrete
z6co-383	MH-561	MH-497	577.08	577	576.03	575.57	46.1	150	0.5	100.23	1.518	0.065	1.1	0.9	1.28	15	0.011	Concrete
z6co-2173	MH-771	MH-924	600.94	599.41	599.4	598.46	93.9	150	0.74	100	1.52	0.239	1.1	1.38	0.8	29	0.011	Concrete
z6co-1201	MH-196	MH-197	574	574	572.88	572.64	25.8	150	0.58	108.46	1.46	0.113	1.1	0.97	1.21	22	0.011	Concrete
CO-273	MH-989	MH-985	584.72	584.89	583.77	583.36	43.8	150	0.6	106.05	1.476	0.127	1.1	0.8	1.38	24.5	0.011	Concrete
z6co-1124	MH-519	MH-520	582.09	582.41	581.14	580.88	42.7	150	0.32	167.63	1.174	0.026	1.1	0.8	1.38	37.8	0.011	Concrete
CO-101	MH-852	MH-1039	606.68	605.53	605.16	604.58	58	150	1.04	100	1.52	0.844	1.1	1.37	0.8	56.7	0.011	Concrete
z6co-591	MH-499	MH-500	582.19	582.51	581.24	580.98	41.8	150	0.6	161.8	1.195	0.211	1.1	0.8	1.37	39.1	0.011	Concrete
z6co-553	MH-904	MH-859	579.26	579.73	578.31	578.22	88.9	150	0.22	1,000.00	0.481	0.063	1.1	0.8	1.37	25.7	0.011	Concrete
z6co-960	MH-628	MH-57	588.05	588.56	587.1	587.05	50.1	150	0.16	1,000.00	0.481	0.021	1.1	0.8	1.37	18.2	0.011	Concrete
z6co-1776	MH-783	MH-880	574.53	575	573.58	573.49	86.1	150	0.15	1,000.00	0.481	0.017	1.1	0.8	1.36	14.2	0.011	Concrete
CO-102	MH-910	MH-897	606.17	606.13	605.17	604.67	90.9	150	0.6	179.04	1.136	0.242	1.1	0.84	1.31	40	0.011	Concrete
z6co-2040	MH-650	MH-143	586.86	587.36	585.91	585.86	51.8	150	0.18	1,000.00	0.481	0.031	1.1	0.8	1.35	18.6	0.011	Concrete
z6co-2126	MH-798	MH-788	606.13	605.68	604.99	604.37	79.4	150	0.6	126.57	1.351	0.158	1.1	0.98	1.17	28.5	0.011	Concrete
z6co-1048	MH-211	MH-662	581.95	581.81	580.76	580.55	51.5	150	0.6	251.71	0.958	0.376	1.1	1.05	1.1	44.5	0.011	Concrete
z6co-1424	MH-47	MH-46	579.59	579.38	578.28	578.26	15.4	150	0.24	1,000.00	0.481	0.08	1.1	1.17	0.97	24.3	0.011	Concrete
z6co-589	MH-606	MH-607	581.97	582.35	581.02	580.87	48.7	150	0.33	305.87	0.869	0.057	1.1	0.8	1.34	26.3	0.011	Concrete
z6co-584	MH-711	MH-712	583.17	583.29	582.22	581.81	55.8	150	0.6	135.74	1.305	0.172	1.1	0.8	1.34	25.4	0.011	Concrete
CO-242	MH-157	MH-715	583.57	583.48	582.43	582.19	44.6	150	0.6	186.98	1.112	0.253	1.1	0.99	1.14	38.9	0.011	Concrete
z6co-1257	MH-505	MH-338	575	574.25	573.52	573.3	22.1	150	0.17	100	1.52	0.002	1.1	1.33	0.8	2.7	0.011	Concrete
z6co-588	MH-693	MH-694	582.04	582.27	581.09	580.79	54.8	150	0.48	183.39	1.122	0.114	1.1	0.8	1.33	32.9	0.011	Concrete
z6co-2194	MH-765	MH-766	597.71	596.66	596.25	595.71	53.8	150	0.7	100	1.52	0.204	1.1	1.32	0.8	26.8	0.011	Concrete
z6co-892	MH-16	MH-15	580.03	579.84	578.73	578.72	13.1	150	0.2	1,000.00	0.481	0.041	1.1	1.15	0.97	16.7	0.011	Concrete
CO-149	MH-290	MH-195	582.09	582.25	580.97	580.95	21.5	150	0.16	1,000.00	0.481	0.02	1.1	0.96	1.15	16.2	0.011	Concrete
z6co-1475	MH-416	MH-113	589.72	589.24	588.37	588.18	45.8	150	0.6	246.54	0.968	0.366	1.1	1.2	0.91	40.7	0.011	Concrete
CO-223	MH-192	MH-500	582.56	582.51	581.37	581.28	15.6	150	0.6	171.46	1.161	0.229	1.1	1.03	1.07	30.3	0.011	Concrete
CO-130	MH-319	MH-45	577.08	577.05	575.95	575.79	36.3	150	0.6	225.01	1.013	0.323	1.1	0.99	1.11	39.2	0.011	Concrete
CO-111	MH-39	MH-1055	604.59	603.75	603.14	602.8	34.2	150	0.22	100	1.52	0.004	1.1	1.3	0.8	11.7	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-722	MH-468	MH-307	575	574.1	573.55	573.15	40.1	150	0.21	100	1.52	0.004	1.1	1.3	0.8	3.8	0.011	Concrete
z6co-1781	MH-624	MH-623	575	574.06	573.56	573.11	44.9	150	0.18	100	1.52	0.002	1	1.29	0.8	2.9	0.011	Concrete
z6co-1541	MH-38	MH-37	587.37	587.53	586.26	586.25	14.4	150	0.22	1,000.00	0.481	0.057	1	0.96	1.13	25.8	0.011	Concrete
z6co-1136	MH-715	MH-432	583.48	583.08	582.19	581.98	55.8	150	0.6	265.16	0.933	0.405	1	1.14	0.94	46.1	0.011	Concrete
z6co-816	MH-104	MH-105	578.2	578.17	577.01	576.99	20	150	0.15	1,000.00	0.481	0.018	1	1.05	1.03	12.1	0.011	Concrete
z6co-1421	MH-232	MH-171	578.66	578.9	577.71	577.48	27.5	150	0.6	116.44	1.409	0.141	1	0.8	1.27	24.3	0.011	Concrete
z6co-1389	MH-168	MH-690	577.46	577.35	576.25	576.19	54.2	150	0.18	1,000.00	0.481	0.031	1	1.06	1.01	18.4	0.011	Concrete
z6co-2035	MH-477	MH-117	587.78	588.2	586.83	586.79	40.9	150	0.16	1,000.00	0.481	0.019	1	0.8	1.26	26.9	0.011	Concrete
z6co-2084	MH-190	MH-38	587.55	587.37	586.3	586.26	38.5	150	0.18	1,000.00	0.481	0.03	1	1.1	0.96	20.3	0.011	Concrete
z6co-1589	MH-163	MH-277	581.76	581.29	580.37	580.33	36.1	150	0.19	1,000.00	0.481	0.037	1	1.25	0.81	15.4	0.011	Concrete
z6co-1116	MH-686	MH-687	582.28	582.7	581.33	581.29	35.9	150	0.11	1,000.00	0.481	0.006	1	0.8	1.26	28.7	0.011	Concrete
z6co-558	MH-832	MH-797	582.66	581.5	581.26	580.55	71.7	150	0.3	100	1.52	0.012	1	1.25	0.8	6.5	0.011	Concrete
z6co-2322	MH-465	MH-464	586.36	585.51	584.96	584.56	40	150	0.82	100	1.52	0.343	1	1.25	0.8	39.5	0.011	Concrete
z6co-2226	MH-304	MH-303	595.58	594.8	594.18	593.85	32.8	150	0.43	100	1.52	0.039	1	1.25	0.8	14.7	0.011	Concrete
z6co-1990	MH-641	MH-642	579.52	579.77	578.57	578.37	51.4	150	0.6	252.2	0.957	0.377	1	0.8	1.25	41.5	0.011	Concrete
z6co-528	MH-631	MH-163	581.37	581.76	580.42	580.37	49.9	150	0.13	1,000.00	0.481	0.01	1	0.8	1.25	14.3	0.011	Concrete
z6co-379	MH-167	MH-168	577.41	577.46	576.27	576.25	24.5	150	0.17	1,000.00	0.481	0.025	1	0.99	1.06	16.1	0.011	Concrete
CO-110	MH-1055	MH-599	603.75	603.52	602.8	602.12	86.4	150	0.51	127.76	1.345	0.092	1	0.8	1.24	21.6	0.011	Concrete
CO-113	MH-599	MH-40	603.52	602.64	602.12	601.69	43.4	150	0.63	100	1.52	0.139	1	1.24	0.8	24.7	0.011	Concrete
CO-83	MH-672	MH-129	575	574.15	573.61	573.2	40.9	150	0.17	100	1.52	0.002	1	1.24	0.8	2.6	0.011	Concrete
CO-134	MH-812	MH-691	582.77	581.66	581.38	580.71	67.5	150	0.31	100	1.52	0.013	1	1.24	0.8	6.9	0.011	Concrete
z6co-2117	MH-749	MH-750	606.6	606.7	605.65	605.32	59.6	150	0.6	180.6	1.131	0.245	1	0.8	1.23	33.3	0.011	Concrete
z6co-513	MH-59	MH-211	582.03	581.95	580.9	580.76	33.9	150	0.6	236.96	0.987	0.345	1	0.98	1.05	41.6	0.011	Concrete
z6co-530	MH-32	MH-277	581.06	581.29	580.03	579.99	38.1	150	0.13	1,000.00	0.481	0.011	1	0.88	1.15	18.4	0.011	Concrete
CO-220	MH-616	MH-192	582.59	582.56	581.44	581.37	11.8	150	0.6	168.69	1.17	0.225	1	0.99	1.03	30.7	0.011	Concrete
z6co-2097	MH-974	MH-975	587.96	587.3	587.01	585.92	110.4	150	0.59	100.89	1.513	0.111	1	0.8	1.22	24.3	0.011	Concrete
CO-19	MH-975	MH-670	587.3	586.34	585.92	585.39	52.6	150	0.68	100	1.52	0.182	1	1.22	0.8	25.2	0.011	Concrete
z6co-2036	MH-474	MH-120	587.76	588.14	586.81	586.77	40.6	150	0.17	1,000.00	0.481	0.027	1	0.8	1.22	18.1	0.011	Concrete
z6co-517	MH-797	MH-66	581.5	580.68	580.14	579.72	65	150	0.82	154.01	1.347	0.477	1	1.21	0.81	45.4	0.01	Concrete
z6co-2038	MH-452	MH-145	587.37	587.74	586.42	586.38	39.6	150	0.16	1,000.00	0.481	0.02	1	0.8	1.21	15.3	0.011	Concrete
CO-101	MH-197	MH-38	574	573.19	572.64	572.24	40.2	150	0.61	100	1.52	0.124	1	1.21	0.8	20.8	0.011	Concrete
z6co-1588	MH-277	MH-72	581.29	580.97	579.99	579.96	30.6	150	0.23	1,000.00	0.481	0.075	1	1.15	0.85	21.9	0.011	Concrete
CO-138	MH-756	MH-211	582.96	581.95	581.61	581	60.6	150	0.3	100	1.52	0.013	1	1.2	0.8	6.8	0.011	Concrete
z6co-971	MH-389	MH-112	588.69	589.05	587.74	587.71	37	150	0.17	1,000.00	0.481	0.025	1	0.8	1.19	24.6	0.011	Concrete
z6co-1887	MH-706	MH-707	578.35	578.54	577.4	577.2	55.6	150	0.2	269.46	0.926	0.01	1	0.8	1.19	29.8	0.011	Concrete
z6co-2211	MH-814	MH-771	601.05	600.94	600.1	599.6	68.8	150	0.6	137.6	1.296	0.174	1	0.8	1.18	25.7	0.011	Concrete
CO-136	MH-747	MH-662	582.78	581.81	581.44	580.86	58.8	150	0.33	100	1.52	0.016	1	1.18	0.8	7.6	0.011	Concrete
CO-140	MH-729	MH-59	582.99	582.03	581.66	581.08	57.6	150	0.26	100	1.52	0.008	1	1.18	0.8	5.3	0.011	Concrete
CO-132	MH-818	MH-512	576.99	576.4	575.66	575.45	21.5	150	0.85	100	1.52	0.384	1	1.18	0.8	41.4	0.011	Concrete
z6co-1579	MH-58	MH-59	582.11	582.03	580.98	580.9	17.8	150	0.6	228.4	1.006	0.329	1	0.99	0.98	39.6	0.011	Concrete
z6co-902	MH-409	MH-47	579.26	579.59	578.31	578.28	37.4	150	0.09	1,000.00	0.481	0.004	1	0.8	1.17	16.6	0.011	Concrete
z6co-1930	MH-690	MH-861	577.35	577.21	576.19	576.11	85.6	150	0.2	1,000.00	0.481	0.042	1	1.01	0.96	21.3	0.011	Concrete
z6co-1477	MH-116	MH-667	588.85	588.37	587.54	587.42	46.4	150	0.63	368.79	0.871	0.617	1	1.15	0.8	56.4	0.01	Concrete
CO-118	MH-801	MH-41	602.93	602.56	601.71	601.52	27.5	150	0.82	143.17	1.27	0.562	1	1.06	0.89	52.8	0.011	Concrete
z6co-1433	MH-370	MH-16	579.72	580.03	578.77	578.73	35.5	150	0.11	1,000.00	0.481	0.006	1	0.8	1.15	13.6	0.011	Concrete
CO-206	MH-382	MH-7	588.2	588.25	587.11	587.1	11.9	150	0.14	1,000.00	0.481	0.012	1	0.94	1	9	0.011	Concrete
z6co-2147	MH-528	MH-893	603.35	602.02	602.06	601.07	98.6	150	0.73	100	1.52	0.235	1	1.14	0.8	28.8	0.011	Concrete
z6co-2143	MH-587	MH-528	603.32	603.35	602.37	602.06	47.8	150	0.4	152.48	1.231	0.051	1	0.8	1.14	22.8	0.011	Concrete
z6co-1030	MH-648	MH-649	583.71	582.86	582.42	581.91	51.7	150	0.33	100	1.52	0.016	1	1.14	0.8	7.6	0.011	Concrete
CO-132	MH-653	MH-393	583.85	582.99	582.56	582.04	51.7	150	0.47	100	1.52	0.051	1	1.14	0.8	13.4	0.011	Concrete
CO-120	MH-36	MH-568	583.69	582.84	582.4	581.89	51.5	150	0.4	100	1.52	0.03	1	1.14	0.8	10.3	0.011	Concrete
z6co-2269	MH-215	MH-216	595.7	595.88	594.75	594.6	26.9	150	0.31	172.35	1.158	0.025	1	0.8	1.14	9.9	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-130	MH-664	MH-581	583.92	583.07	582.63	582.12	51.5	150	0.44	100	1.52	0.041	1	1.14	0.8	11.9	0.011	Concrete
z6co-1578	MH-109	MH-58	582.17	582.11	581.07	580.98	20.6	150	0.6	218.54	1.028	0.311	1	0.95	0.99	38	0.011	Concrete
CO-124	MH-660	MH-394	583.74	582.9	582.45	581.95	50.4	150	0.37	100	1.52	0.024	1	1.13	0.8	9.3	0.011	Concrete
z6co-1908	MH-247	MH-248	578.25	577.63	576.97	576.68	28.5	150	0.93	100	1.52	0.546	1	1.13	0.8	55.1	0.011	Concrete
CO-175	MH-949	MH-894	595.95	595.79	595	594.5	67.8	150	0.65	136.6	1.301	0.228	1	0.8	1.13	36.3	0.011	Concrete
z6co-2214	MH-895	MH-894	595.85	595.79	594.9	594.5	87.3	150	0.42	220.49	1.024	0.087	1	0.8	1.13	30.7	0.011	Concrete
z6co-2312	MH-22	MH-570	590.76	590.26	589.66	589.13	64.1	150	0.8	120.74	1.383	0.41	1	0.95	0.98	42.8	0.011	Concrete
z6co-1130	MH-430	MH-431	582.54	582.83	581.59	581.55	38.6	150	0.1	1,000.00	0.481	0.004	1	0.8	1.13	19.6	0.011	Concrete
z6co-595	MH-386	MH-387	582.46	582.75	581.51	581.47	36.9	150	0.11	1,000.00	0.481	0.006	1	0.8	1.13	20.2	0.011	Concrete
z6co-2123	MH-460	MH-461	606.88	607.16	605.93	605.89	44.7	150	0.17	1,000.00	0.481	0.024	1	0.8	1.13	18.7	0.011	Concrete
z6co-1859	MH-483	MH-484	577.09	577.37	576.14	576.09	41.2	150	0.09	1,000.00	0.481	0.003	1	0.8	1.12	6.4	0.011	Concrete
CO-97	MH-746	MH-196	574	574	572.91	572.88	28.6	150	0.24	1,000.00	0.481	0.088	1	0.94	0.97	25	0.011	Concrete
z6co-995	MH-53	MH-52	587.12	587.4	586.17	586.14	38.1	150	0.15	1,000.00	0.481	0.018	1	0.8	1.11	35.6	0.011	Concrete
z6co-2283	MH-820	MH-819	593.2	592.88	592.25	591.62	70.9	150	0.6	113.43	1.427	0.137	1	0.8	1.11	22.2	0.011	Concrete
z6co-2074	MH-4	MH-3	587.39	587.66	586.44	586.41	38.2	150	0.16	1,000.00	0.481	0.021	1	0.8	1.11	18.5	0.011	Concrete
z6co-538	MH-533	MH-71	580.51	580.78	579.56	579.52	43.1	150	0.12	1,000.00	0.481	0.007	1	0.8	1.11	12.1	0.011	Concrete
z6co-1543	MH-191	MH-190	587.28	587.55	586.33	586.3	25.5	150	0.15	1,000.00	0.481	0.018	0.9	0.8	1.1	14.9	0.011	Concrete
z6co-2108	MH-760	MH-736	585.78	586.02	584.83	584.77	60.5	150	0.18	1,000.00	0.481	0.03	0.9	0.8	1.1	13.8	0.011	Concrete
z6co-1846	MH-506	MH-369	575	575	574.05	573.75	42.2	150	0.6	141.54	1.278	0.18	0.9	0.8	1.1	27.9	0.011	Concrete
CO-213	MH-1013	MH-763	585.64	585.9	584.69	584.65	37.4	150	0.13	1,000.00	0.481	0.012	0.9	0.8	1.1	8.7	0.011	Concrete
CO-275	MH-1052	MH-486	589.43	588.69	588.19	587.74	44.1	150	1.27	100	1.672	1.587	0.9	1.09	0.8	79.6	0.01	Concrete
z6co-1283	MH-863	MH-1011	575	575	573.97	573.84	132.5	150	0.18	1,000.00	0.481	0.033	0.9	0.88	1.01	14.5	0.011	Concrete
z6co-364	MH-584	MH-585	577.22	577.14	576.27	575.9	47.5	150	0.33	127.09	1.348	0.021	0.9	0.8	1.09	8.8	0.011	Concrete
z6co-309	MH-473	MH-463	576.98	577.23	576.03	575.99	40.8	150	0.11	1,000.00	0.481	0.006	0.9	0.8	1.08	8.9	0.011	Concrete
z6co-2271	MH-950	MH-951	599.18	597.83	597.96	596.88	107.5	150	0.59	100	1.52	0.111	0.9	1.07	0.8	23.6	0.011	Concrete
CO-96	MH-214	MH-746	574	574	572.93	572.91	19.3	150	0.24	1,000.00	0.481	0.081	0.9	0.92	0.94	28.1	0.011	Concrete
z6co-440	MH-567	MH-566	579.2	579.42	578.25	578.21	46.4	150	0.25	1,000.00	0.481	0.097	0.9	0.8	1.07	27.4	0.011	Concrete
z6co-2169	MH-991	MH-801	603.11	602.93	602.16	601.71	120.4	150	0.36	270.8	0.924	0.066	0.9	0.8	1.06	33.5	0.011	Concrete
z6co-1387	MH-175	MH-167	577.33	577.41	576.31	576.27	36.9	150	0.16	1,000.00	0.481	0.019	0.9	0.87	0.99	14.4	0.011	Concrete
z6co-1931	MH-861	MH-561	577.21	577.08	576.11	576.03	78.3	150	0.22	1,000.00	0.481	0.057	0.9	0.96	0.9	19.5	0.011	Concrete
z6co-694	MH-404	MH-158	574.94	575.16	573.99	573.95	37.5	150	0.12	1,000.00	0.481	0.008	0.9	0.8	1.06	7.1	0.011	Concrete
z6co-2200	MH-632	MH-753	599.37	598.52	598.17	597.57	60.1	150	0.53	100	1.52	0.079	0.9	1.05	0.8	29.4	0.011	Concrete
z6co-969	MH-424	MH-132	586.73	586.96	585.78	585.76	26.7	150	0.12	1,000.00	0.481	0.009	0.9	0.8	1.05	8.9	0.011	Concrete
z6co-982	MH-605	MH-5	589.3	588.76	588.1	587.81	28.9	150	0.39	100	1.52	0.028	0.9	1.05	0.8	12.7	0.011	Concrete
z6co-2152	MH-454	MH-453	603.73	603.56	602.66	602.49	39.6	150	0.43	230.87	1	0.1	0.9	0.92	0.92	21.8	0.011	Concrete
z6co-1349	MH-734	MH-104	578.02	578.2	577.07	577.01	58.6	150	0.12	1,000.00	0.481	0.008	0.9	0.8	1.05	10.9	0.011	Concrete
z6co-2212	MH-868	MH-724	596.68	595.62	595.48	594.67	81.1	150	0.5	100	1.52	0.063	0.9	1.05	0.8	24.1	0.011	Concrete
z6co-2277	MH-147	MH-1032	593.88	592.54	592.78	591.5	159.2	150	0.6	124.6	1.362	0.154	0.9	0.95	0.89	36.8	0.011	Concrete
CO-128	MH-351	MH-250	583.81	583.21	582.62	582.26	36.6	150	0.53	100	1.52	0.076	0.9	1.04	0.8	16.3	0.011	Concrete
z6co-2228	MH-341	MH-340	593.53	593.73	592.58	592.54	34.3	150	0.18	1,000.00	0.481	0.033	0.9	0.8	1.04	17.6	0.011	Concrete
z6co-2235	MH-595	MH-13	605.44	605.47	604.49	604.28	48.4	150	0.36	228.13	1.006	0.056	0.9	0.8	1.04	29.9	0.011	Concrete
z6co-1893	MH-185	MH-350	577.87	577.82	576.8	576.75	32.7	150	0.24	756.74	0.553	0.062	0.9	0.92	0.91	23.7	0.011	Concrete
CO-184	MH-1053	MH-950	600	599.18	598.82	598.23	58.8	150	0.46	100	1.52	0.048	0.9	1.04	0.8	12.9	0.011	Concrete
z6co-1037	MH-61	MH-351	584.39	583.81	583.21	582.86	34.9	150	0.51	100	1.52	0.068	0.9	1.03	0.8	15.3	0.011	Concrete
z6co-18	MH-346	MH-312	584.41	583.83	583.23	582.88	34.7	150	0.42	100	1.52	0.037	0.9	1.03	0.8	11.4	0.011	Concrete
z6co-2355	MH-90	MH-214	574	574	572.95	572.93	22.3	150	0.19	1,000.00	0.481	0.037	0.9	0.9	0.92	23.5	0.011	Concrete
z6co-1577	MH-108	MH-109	582.19	582.17	581.17	581.07	20.2	150	0.6	202.06	1.069	0.283	0.9	0.87	0.95	36	0.011	Concrete
z6co-1484	MH-125	MH-124	589.36	589.56	588.41	588.38	21.5	150	0.16	1,000.00	0.481	0.02	0.9	0.8	1.02	24.9	0.011	Concrete
z6co-2033	MH-118	MH-117	588	588.2	587.05	587.03	21	150	0.17	1,000.00	0.481	0.027	0.9	0.8	1.02	13.1	0.011	Concrete
z6co-2242	MH-555	MH-671	604.03	603.88	603.08	602.72	50.5	150	0.6	139.22	1.288	0.177	0.9	0.8	1.01	25.8	0.011	Concrete
CO-216	MH-12	MH-878	586.58	586.35	585.53	585.29	33.1	150	0.6	136.35	1.302	0.17	0.9	0.9	0.91	29.4	0.011	Concrete
z6co-2315	MH-808	MH-458	588.5	587.27	587.34	586.32	101.9	150	1.02	100	1.52	0.782	0.9	1.01	0.8	54.3	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-539	MH-850	MH-536	581.46	580.48	580.3	579.53	76.6	150	0.42	100	1.52	0.035	0.9	1.01	0.8	11.1	0.011	Concrete
z6co-1825	MH-1058	MH-384	575	575	574.05	573.84	208.9	150	0.25	1,000.00	0.481	0.093	0.9	0.8	1.01	24.5	0.011	Concrete
CO-126	MH-312	MH-249	583.83	583.3	582.67	582.35	31.9	150	0.47	100	1.52	0.05	0.9	1.01	0.8	13.2	0.011	Concrete
z6co-563	MH-300	MH-227	583.08	582.55	581.92	581.6	31.6	150	0.23	100	1.52	0.005	0.9	1.01	0.8	4.2	0.011	Concrete
z6co-1593	MH-289	MH-290	582.6	582.09	581.44	581.14	30.9	150	0.22	100	1.52	0.004	0.9	1.01	0.8	4	0.011	Concrete
z6co-1145	MH-371	MH-157	583.65	583.57	582.7	582.43	35.7	150	0.5	132.99	1.318	0.092	0.9	0.8	0.99	25.8	0.011	Concrete
z6co-126	MH-156	MH-157	583.4	583.57	582.45	582.43	23.4	150	0.2	1,000.00	0.481	0.046	0.9	0.8	0.99	27.4	0.011	Concrete
CO-23	MH-625	MH-629	604.92	604.12	603.85	603.09	144.5	150	0.6	190.95	1.1	0.261	0.9	0.92	0.88	32.9	0.011	Concrete
z6co-112	MH-617	MH-616	582.7	582.59	581.75	581.44	49.5	150	0.6	160.94	1.198	0.211	0.9	0.8	0.99	30.1	0.011	Concrete
z6co-345	MH-350	MH-222	577.82	577.73	576.75	576.7	51.4	150	0.23	1,000.00	0.481	0.068	0.9	0.91	0.88	23.8	0.011	Concrete
z6co-2198	MH-540	MH-541	600.34	599.7	599.2	598.75	44.4	150	0.36	100	1.52	0.022	0.9	0.99	0.8	12.1	0.011	Concrete
z6co-2260	MH-11	MH-12	586.58	586.58	585.54	585.53	9.3	150	0.23	1,000.00	0.481	0.07	0.9	0.89	0.9	26.1	0.011	Concrete
z6co-2125	MH-547	MH-798	606.01	606.13	605.06	604.99	66	150	0.25	1,000.00	0.481	0.099	0.9	0.8	0.98	27.9	0.011	Concrete
z6co-2313	MH-570	MH-571	590.26	589.61	589.13	588.66	46.6	150	0.88	100	1.52	0.453	0.9	0.98	0.8	40.4	0.011	Concrete
CO-217	MH-878	MH-954	586.35	586.14	585.29	585.13	29.9	150	0.6	187.26	1.111	0.253	0.9	0.91	0.87	34.3	0.011	Concrete
z6co-2441	MH-91	MH-90	574	574	572.97	572.95	21.8	150	0.17	1,000.00	0.481	0.024	0.9	0.88	0.9	17.2	0.011	Concrete
CO-141	MH-647	MH-48	575.15	575.11	574.13	574.05	77.1	150	0.17	1,000.00	0.481	0.026	0.9	0.87	0.91	12.9	0.011	Concrete
CO-31	MH-263	MH-343	577.92	577.91	576.88	576.87	9.8	150	0.16	1,000.00	0.481	0.021	0.9	0.89	0.89	24.3	0.011	Concrete
CO-52	MH-15	MH-1012	594.2	593.98	593.24	592.86	68.7	150	0.6	180.69	1.131	0.245	0.9	0.81	0.97	31.6	0.011	Concrete
z6co-2267	MH-229	MH-479	595.31	595.19	594.33	594.1	35.4	150	0.6	150.41	1.239	0.194	0.9	0.83	0.95	27.4	0.011	Concrete
CO-75	MH-951	MH-765	597.83	597.71	596.88	596.59	38.6	150	0.6	130.71	1.33	0.163	0.9	0.8	0.98	24.6	0.011	Concrete
CO-9	MH-751	MH-196	574	574	573.05	572.88	61.1	150	0.23	355.87	0.806	0.02	0.9	0.8	0.97	16.1	0.011	Concrete
z6co-1040	MH-10	MH-138	584.3	583.87	583.18	582.92	25.9	150	0.52	100	1.52	0.07	0.9	0.97	0.8	15.6	0.011	Concrete
z6co-1423	MH-46	MH-70	579.38	579.17	578.26	578.22	17.2	150	0.33	392.04	0.768	0.082	0.9	0.97	0.8	20	0.011	Concrete
z6co-1425	MH-15	MH-47	579.84	579.59	578.72	578.64	16.8	150	0.33	224.22	1.015	0.042	0.9	0.97	0.8	13.5	0.011	Concrete
z6co-83	MH-227	MH-58	582.55	582.11	581.44	581.16	27.3	150	0.29	100	1.52	0.011	0.9	0.96	0.8	6.4	0.011	Concrete
CO-148	MH-469	MH-290	581.94	582.09	580.99	580.97	17.8	150	0.13	1,000.00	0.481	0.01	0.9	0.8	0.96	11.8	0.011	Concrete
CO-53	MH-952	MH-16	594.99	594.5	593.88	593.55	32.8	150	0.58	100	1.52	0.106	0.9	0.96	0.8	19.3	0.011	Concrete
CO-142	MH-176	MH-109	582.59	582.17	581.47	581.22	25	150	0.35	100	1.52	0.019	0.9	0.96	0.8	8.3	0.011	Concrete
z6co-286	MH-496	MH-495	575	575	574	573.94	52.9	150	0.4	1,000.00	0.529	0.491	0.9	0.85	0.91	73.8	0.01	Concrete
z6co-716	MH-364	MH-214	574	574	573.01	572.93	35.6	150	0.26	419.35	0.742	0.038	0.9	0.84	0.92	21.5	0.011	Concrete
CO-6	MH-1	MH-90	574	574	572.99	572.95	17.8	150	0.16	427.54	0.735	0.007	0.9	0.86	0.9	13.2	0.011	Concrete
z6co-2316	MH-458	MH-459	587.27	586.71	586.16	585.76	39.7	150	1.03	100	1.52	0.816	0.9	0.96	0.8	55.6	0.011	Concrete
z6co-2204	MH-535	MH-833	598.93	598.05	597.82	597.1	71.6	150	0.73	100	1.52	0.23	0.9	0.96	0.8	28.4	0.011	Concrete
z6co-2203	MH-534	MH-535	599.21	598.93	598.26	597.82	44.1	150	0.65	101.58	1.508	0.153	0.9	0.8	0.96	28	0.011	Concrete
z6co-2314	MH-571	MH-808	589.61	588.5	588.51	587.55	95.9	150	0.9	100	1.52	0.481	0.9	0.96	0.8	41.8	0.011	Concrete
CO-30	MH-343	MH-754	577.91	577.84	576.87	576.82	50.3	150	0.24	1,000.00	0.481	0.08	0.9	0.89	0.87	28	0.011	Concrete
z6co-55	MH-405	MH-406	580.26	580.05	579.22	579.03	37.6	150	0.6	207.75	1.055	0.293	0.9	0.89	0.87	41	0.011	Concrete
z6co-1188	MH-467	MH-542	572	572	571.05	570.9	44.6	150	0.6	287.77	0.896	0.457	0.9	0.8	0.95	47	0.011	Concrete
z6co-2278	MH-148	MH-147	593.75	593.88	592.8	592.78	22.4	150	0.23	1,000.00	0.481	0.074	0.9	0.8	0.95	25.7	0.011	Concrete
z6co-2320	MH-204	MH-203	585.09	585.14	584.14	584.04	26.4	150	0.6	275.34	0.916	0.428	0.9	0.8	0.95	45	0.011	Concrete
z6co-1099	MH-325	MH-176	583.07	582.59	581.96	581.64	33	150	0.31	100	1.52	0.014	0.9	0.95	0.8	7	0.011	Concrete
z6co-1691	MH-668	MH-615	583.69	583.79	582.74	582.69	52.6	150	0.17	1,000.00	0.481	0.027	0.9	0.8	0.95	15.8	0.011	Concrete
z6co-1690	MH-615	MH-614	583.79	583.41	582.69	582.46	49.5	150	0.37	209.64	1.05	0.057	0.9	0.95	0.8	23.7	0.011	Concrete
z6co-2145	MH-970	MH-529	603.97	603.93	603.02	602.83	109.6	150	0.31	602.72	0.619	0.107	0.9	0.8	0.95	25.7	0.011	Concrete
z6co-2144	MH-529	MH-528	603.93	603.35	602.83	602.4	43.5	150	0.63	100	1.52	0.137	0.9	0.95	0.8	21.8	0.011	Concrete
z6co-2311	MH-21	MH-22	590.66	590.76	589.71	589.66	13.7	150	0.6	256.37	0.949	0.386	0.9	0.8	0.95	42.7	0.011	Concrete
z6co-1355	MH-222	MH-181	577.73	577.68	576.7	576.66	26.3	150	0.28	566.37	0.639	0.072	0.9	0.88	0.87	25	0.011	Concrete
z6co-2137	MH-422	MH-423	604.87	604.97	603.92	603.88	38.4	150	0.19	1,000.00	0.481	0.037	0.9	0.8	0.94	20.6	0.011	Concrete
CO-94	MH-663	MH-91	574	574	572.98	572.97	13.6	150	0.13	1,000.00	0.481	0.011	0.9	0.87	0.88	12.7	0.011	Concrete
z6co-1135	MH-256	MH-432	583.17	583.08	582.22	581.98	38.7	150	0.38	166.27	1.179	0.045	0.9	0.8	0.94	30.1	0.011	Concrete
CO-126	MH-432	MH-387	583.08	582.75	581.98	581.8	41.5	150	0.66	225.44	1.012	0.461	0.9	0.94	0.8	45.5	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-2133	MH-992	MH-207	606.28	605.33	605.19	604.38	120.6	150	0.49	148.9	1.246	0.096	0.9	0.94	0.8	22.3	0.011	Concrete
z6co-1574	MH-138	MH-77	583.87	583.51	582.77	582.56	21.8	150	0.53	100	1.52	0.078	0.9	0.94	0.8	16.5	0.011	Concrete
z6co-233	MH-745	MH-746	574	574	573.05	572.91	59.3	150	0.13	416.67	0.745	0.004	0.9	0.8	0.94	16.8	0.011	Concrete
CO-207	MH-8	MH-382	588.09	588.2	587.14	587.11	26.4	150	0.12	1,000.00	0.481	0.008	0.9	0.8	0.94	9.9	0.011	Concrete
z6co-2136	MH-1047	MH-992	606.32	606.28	605.37	605.19	179.7	150	0.22	1,000.00	0.481	0.064	0.9	0.8	0.94	22.1	0.011	Concrete
CO-25	MH-673	MH-454	603.73	603.73	602.77	602.66	109.1	150	0.23	1,000.00	0.481	0.07	0.9	0.81	0.92	23.3	0.011	Concrete
CO-28	MH-543	MH-7	603.22	602.61	602.14	601.66	48.1	150	0.42	100	1.52	0.036	0.9	0.93	0.8	11.2	0.011	Concrete
z6co-1533	MH-759	MH-758	588.51	588.09	587.56	587.01	60.4	150	0.6	110.53	1.446	0.133	0.9	0.8	0.93	24.7	0.011	Concrete
CO-39	MH-287	MH-441	578.31	577.85	577.23	576.9	32.9	150	0.39	100	1.52	0.028	0.9	0.93	0.8	10.9	0.011	Concrete
z6co-2151	MH-453	MH-410	603.56	602.51	602.49	601.56	92.6	150	0.61	100	1.52	0.123	0.9	0.92	0.8	20.7	0.011	Concrete
CO-68	MH-444	MH-305	575	575	574.01	573.97	39.3	150	0.26	1,000.00	0.481	0.104	0.9	0.84	0.88	25.9	0.011	Concrete
z6co-827	MH-754	MH-827	577.84	577.73	576.82	576.73	93.8	150	0.24	1,000.00	0.481	0.089	0.9	0.87	0.85	30.2	0.011	Concrete
z6co-1656	MH-676	MH-677	582.34	582.41	581.39	581.33	53.5	150	0.21	1,000.00	0.481	0.053	0.9	0.8	0.92	18.4	0.011	Concrete
CO-7	MH-761	MH-214	574	574	573.05	572.93	60.9	150	0.13	493.83	0.684	0.004	0.9	0.8	0.92	16.6	0.011	Concrete
z6co-1416	MH-527	MH-185	577.79	577.87	576.84	576.8	43.1	150	0.1	1,000.00	0.481	0.005	0.9	0.8	0.92	14.6	0.011	Concrete
z6co-818	MH-184	MH-185	577.92	577.87	576.97	576.8	25.3	150	0.42	145.17	1.262	0.055	0.9	0.8	0.92	18.6	0.011	Concrete
z6co-1182	MH-352	MH-353	572.35	572.1	571.4	571.03	38	150	0.6	103.38	1.495	0.121	0.9	0.8	0.92	20.7	0.011	Concrete
z6co-1575	MH-77	MH-78	583.51	583.21	582.44	582.26	17.8	150	0.54	100	1.52	0.085	0.9	0.92	0.8	17.2	0.011	Concrete
z6co-585	MH-658	MH-659	582.8	582.87	581.85	581.8	52	150	0.15	1,000.00	0.481	0.018	0.9	0.8	0.92	10.8	0.011	Concrete
z6co-1594	MH-194	MH-195	582.62	582.25	581.56	581.3	25.7	150	0.29	100	1.52	0.011	0.9	0.92	0.8	6.4	0.011	Concrete
z6co-2155	MH-778	MH-625	604.86	604.92	603.91	603.85	62.3	150	0.21	1,000.00	0.481	0.055	0.9	0.8	0.92	27.8	0.011	Concrete
z6co-1900	MH-827	MH-826	577.73	577.67	576.73	576.66	70.3	150	0.26	1,000.00	0.481	0.107	0.9	0.85	0.86	26.3	0.011	Concrete
z6co-2261	MH-877	MH-878	586.49	586.35	585.54	585.29	83	150	0.33	328.53	0.839	0.065	0.9	0.8	0.91	25.5	0.011	Concrete
CO-28	MH-563	MH-350	577.74	577.82	576.79	576.75	37.5	150	0.09	1,000.00	0.481	0.003	0.9	0.8	0.91	15.4	0.011	Concrete
z6co-2146	MH-892	MH-893	602	602.02	601.05	600.96	86.4	150	0.22	1,000.00	0.481	0.064	0.9	0.8	0.91	33	0.011	Concrete
z6co-1120	MH-644	MH-645	582.61	582.67	581.66	581.61	51.6	150	0.16	1,000.00	0.481	0.019	0.9	0.8	0.91	11.2	0.011	Concrete
z6co-245	MH-442	MH-443	574.5	574	573.44	573.05	39	150	0.27	100	1.52	0.009	0.9	0.91	0.8	12.7	0.011	Concrete
z6co-1336	MH-837	MH-122	578.45	577.62	577.39	576.67	72.3	150	0.2	100	1.52	0.003	0.9	0.91	0.8	3.3	0.011	Concrete
z6co-2240	MH-598	MH-554	604.55	604.6	603.6	603.55	48.4	150	0.23	1,000.00	0.481	0.07	0.9	0.8	0.9	24.5	0.011	Concrete
z6co-2241	MH-554	MH-555	604.6	604.03	603.55	603.08	49.2	150	0.61	105.79	1.478	0.137	0.9	0.9	0.8	25.3	0.011	Concrete
CO-62	MH-334	MH-25	578.36	577.85	577.3	576.9	40.5	150	0.25	100	1.52	0.007	0.9	0.9	0.8	5	0.011	Concrete
CO-5	MH-710	MH-90	574	574	573.05	572.95	55.7	150	0.11	551.2	0.647	0.003	0.9	0.8	0.9	12.3	0.011	Concrete
z6co-822	MH-181	MH-849	577.68	577.54	576.66	576.56	94	150	0.24	1,000.00	0.481	0.081	0.9	0.87	0.83	27.8	0.011	Concrete
z6co-172	MH-466	MH-467	572.5	572	571.45	571.05	40	150	0.88	100	1.52	0.444	0.9	0.9	0.8	46.7	0.011	Concrete
z6co-1185	MH-274	MH-73	572.45	572.35	571.5	571.3	30.3	150	0.47	151.76	1.234	0.087	0.8	0.8	0.9	18.9	0.011	Concrete
z6co-652	MH-73	MH-74	572.35	572.05	571.3	571.1	20.2	150	0.55	100	1.52	0.089	0.8	0.9	0.8	17.6	0.011	Concrete
CO-178	MH-833	MH-1001	598.05	597.59	597.01	596.64	37	150	0.77	100	1.52	0.282	0.8	0.9	0.8	31.6	0.011	Concrete
z6co-2254	MH-517	MH-12	586.82	586.58	585.87	585.53	63.7	150	0.44	185.63	1.116	0.087	0.8	0.8	0.9	22.6	0.011	Concrete
CO-107	MH-295	MH-542	572.25	572	571.2	571.05	15.2	150	0.38	100	1.52	0.026	0.8	0.9	0.8	9.6	0.011	Concrete
z6co-1773	MH-946	MH-947	575	575	574.05	573.95	95.1	150	0.1	1,000.00	0.481	0.005	0.8	0.8	0.9	5.8	0.011	Concrete
z6co-1882	MH-503	MH-504	575.81	575.25	574.77	574.3	46.3	150	0.39	100	1.52	0.028	0.8	0.9	0.8	9.9	0.011	Concrete
CO-78	MH-638	MH-189	575.25	575	574.21	574.05	15.7	150	0.32	100	1.52	0.014	0.8	0.89	0.8	7.1	0.011	Concrete
z6co-1794	MH-284	MH-1	574	574	573.01	572.99	23.8	150	0.11	1,000.00	0.481	0.006	0.8	0.84	0.86	7.5	0.011	Concrete
z6co-316	MH-470	MH-717	577.37	576.7	576.33	575.75	57.9	150	0.42	100	1.52	0.035	0.8	0.89	0.8	12.1	0.011	Concrete
z6co-527	MH-162	MH-163	582.1	581.76	581.05	580.81	24.2	150	0.22	100	1.52	0.004	0.8	0.89	0.8	3.9	0.011	Concrete
z6co-357	MH-342	MH-343	578.06	577.91	577.1	576.87	46.5	150	0.38	198.23	1.08	0.056	0.8	0.8	0.89	21.3	0.011	Concrete
z6co-554	MH-488	MH-405	580.52	580.26	579.57	579.22	46.7	150	0.6	130.22	1.332	0.161	0.8	0.8	0.89	30.7	0.011	Concrete
z6co-1907	MH-701	MH-263	578	577.92	577.05	576.88	54.3	150	0.2	311.41	0.861	0.011	0.8	0.8	0.89	14.7	0.011	Concrete
z6co-354	MH-264	MH-263	577.86	577.92	576.91	576.88	29.4	150	0.11	1,000.00	0.481	0.007	0.8	0.8	0.89	14.8	0.011	Concrete
z6co-2259	MH-87	MH-11	586.51	586.58	585.56	585.54	18.5	150	0.22	1,000.00	0.481	0.058	0.8	0.8	0.89	24.6	0.011	Concrete
z6co-1809	MH-549	MH-550	575.86	575.32	574.82	574.37	44.9	150	0.32	100	1.52	0.015	0.8	0.89	0.8	7.3	0.011	Concrete
z6co-1204	MH-111	MH-796	575	575	574.04	573.97	64.9	150	0.11	1,000.00	0.481	0.006	0.8	0.81	0.88	8.5	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-134	MH-717	MH-46	576.7	576.31	575.75	575.27	53.8	150	0.41	113.6	1.426	0.038	0.8	0.8	0.89	29.1	0.011	Concrete
CO-135	MH-46	MH-718	576.31	576.1	575.27	575.15	29.4	150	0.7	239.8	1.08	0.476	0.8	0.89	0.8	45.5	0.01	Concrete
CO-136	MH-601	MH-46	576.28	576.31	575.33	575.27	15.9	150	0.6	278.68	0.911	0.435	0.8	0.8	0.89	46.9	0.011	Concrete
CO-114	MH-40	MH-41	602.64	602.56	601.69	601.52	20.4	150	0.61	121.7	1.378	0.159	0.8	0.8	0.89	41	0.011	Concrete
CO-117	MH-41	MH-42	602.56	602.08	601.52	601.13	39.3	150	1	100	1.52	0.73	0.8	0.89	0.8	61.8	0.011	Concrete
CO-88	MH-657	MH-35	601.52	601.14	600.48	600.19	28.7	150	0.66	100	1.52	0.162	0.8	0.89	0.8	23.8	0.011	Concrete
z6co-2318	MH-539	MH-34	586.26	585.71	585.31	584.68	69.6	150	1.02	108.94	1.456	0.898	0.8	0.8	0.89	68	0.011	Concrete
z6co-2319	MH-34	MH-203	585.71	585.14	584.68	584.19	48.6	150	1.13	100	1.52	1.213	0.8	0.89	0.8	69.9	0.011	Concrete
z6co-1174	MH-960	MH-573	572.42	572.35	571.45	571.34	104.5	150	0.4	1,000.00	0.529	0.471	0.8	0.83	0.86	71.4	0.01	Concrete
z6co-1334	MH-511	MH-512	576.88	576.4	575.84	575.45	39.3	150	0.27	100	1.52	0.008	0.8	0.88	0.8	24.2	0.011	Concrete
z6co-1783	MH-721	MH-91	574	574	573.05	572.97	56	150	0.13	707.69	0.571	0.008	0.8	0.8	0.88	11.5	0.011	Concrete
z6co-1735	MH-435	MH-91	574	574	573.05	572.97	45.3	150	0.11	573.08	0.635	0.003	0.8	0.8	0.88	10	0.011	Concrete
CO-27	MH-1073	MH-844	577.87	577.91	576.92	576.88	37	150	0.21	1,000.00	0.481	0.051	0.8	0.8	0.88	18	0.011	Concrete
CO-95	MH-17	MH-663	574	574	573.04	572.98	52.1	150	0.12	1,000.00	0.481	0.008	0.8	0.81	0.87	9.7	0.011	Concrete
z6co-1597	MH-31	MH-32	581	581.06	580.05	580.03	14.1	150	0.11	1,000.00	0.481	0.006	0.8	0.8	0.88	9.2	0.011	Concrete
z6co-269	MH-862	MH-863	575	575	574.05	573.97	78.6	150	0.15	1,000.00	0.481	0.017	0.8	0.8	0.88	15.2	0.011	Concrete
z6co-1386	MH-174	MH-175	577.28	577.33	576.33	576.31	25.1	150	0.14	1,000.00	0.481	0.013	0.8	0.8	0.87	12.4	0.011	Concrete
z6co-1043	MH-230	MH-108	582.26	582.19	581.31	581.17	27.3	150	0.6	192.29	1.096	0.263	0.8	0.8	0.87	33.9	0.011	Concrete
z6co-405	MH-180	MH-181	577.63	577.68	576.68	576.66	25.1	150	0.09	1,000.00	0.481	0.003	0.8	0.8	0.87	19.2	0.011	Concrete
CO-59	MH-131	MH-182	574	574	573.02	573.01	11.4	150	0.1	1,000.00	0.481	0.004	0.8	0.83	0.84	9.5	0.011	Concrete
CO-254	MH-636	MH-860	582.84	582.86	581.89	581.84	49.2	150	0.13	1,000.00	0.481	0.01	0.8	0.8	0.87	8.3	0.011	Concrete
z6co-1758	MH-646	MH-647	575.13	575.15	574.18	574.13	51.6	150	0.14	1,000.00	0.481	0.014	0.8	0.8	0.87	13.7	0.011	Concrete
z6co-2187	MH-450	MH-475	600.71	600.17	599.69	599.22	47	150	0.52	100	1.52	0.075	0.8	0.87	0.8	16.2	0.011	Concrete
z6co-2383	MH-685	MH-831	595.07	594.57	594.05	593.62	71.2	150	0.72	166.99	1.176	0.433	0.8	0.87	0.8	47.3	0.011	Concrete
z6co-2382	MH-684	MH-685	595.49	595.07	594.54	594.05	53.9	150	0.6	110.59	1.445	0.133	0.8	0.8	0.87	33.1	0.011	Concrete
CO-215	MH-954	MH-763	586.14	585.9	585.13	584.95	35.6	150	0.62	199.48	1.076	0.308	0.8	0.87	0.8	36	0.011	Concrete
z6co-2255	MH-953	MH-954	586.53	586.14	585.58	585.13	103.6	150	0.31	228.43	1.006	0.032	0.8	0.8	0.87	24.1	0.011	Concrete
CO-41	MH-311	MH-279	579.94	579.97	578.99	578.95	39.6	150	0.16	1,000.00	0.481	0.02	0.8	0.8	0.87	11.6	0.011	Concrete
z6co-422	MH-279	MH-280	579.97	579.7	578.95	578.75	34.5	150	0.31	167.66	1.174	0.023	0.8	0.87	0.8	9.6	0.011	Concrete
z6co-1479	MH-834	MH-402	588.11	587.6	587.16	586.58	71.8	150	0.54	124.55	1.362	0.11	0.8	0.8	0.87	31.5	0.011	Concrete
z6co-1757	MH-583	MH-646	575.72	575.13	574.7	574.18	51.7	150	0.25	100	1.52	0.006	0.8	0.87	0.8	8.3	0.011	Concrete
z6co-1175	MH-573	MH-127	572.35	572.25	571.34	571.29	46.2	150	0.4	1,000.00	0.529	0.479	0.8	0.86	0.81	64.5	0.01	Concrete
z6co-329	MH-782	MH-600	577.5	576.81	576.48	575.86	62.6	150	0.18	100	1.52	0.002	0.8	0.87	0.8	3.1	0.011	Concrete
z6co-122	MH-805	MH-715	584	583.48	583.05	582.47	66.7	150	0.6	114.27	1.422	0.138	0.8	0.8	0.86	22.3	0.011	Concrete
z6co-1980	MH-544	MH-545	582.01	581.74	581.06	580.73	44.8	150	0.6	137.53	1.296	0.174	0.8	0.8	0.86	25.6	0.011	Concrete
CO-137	MH-47	MH-920	577.68	576.8	576.67	575.85	82.4	150	0.22	100	1.52	0.004	0.8	0.86	0.8	3.9	0.011	Concrete
z6co-330	MH-600	MH-601	576.81	576.28	575.8	575.33	46.7	150	0.24	100	1.52	0.005	0.8	0.86	0.8	26.3	0.011	Concrete
z6co-807	MH-920	MH-503	576.8	575.81	575.79	574.86	92.8	150	0.35	100	1.52	0.018	0.8	0.86	0.8	8	0.011	Concrete
CO-204	MH-849	MH-871	577.54	577.52	576.56	576.55	15.9	150	0.24	1,000.00	0.481	0.087	0.8	0.83	0.83	23.4	0.011	Concrete
CO-87	MH-35	MH-907	601.14	600.9	600.14	599.95	19	150	0.67	100	1.52	0.173	0.8	0.86	0.8	27.3	0.011	Concrete
CO-89	MH-291	MH-35	601.37	601.14	600.42	600.14	29	150	0.29	100.96	1.513	0.011	0.8	0.8	0.86	16.6	0.011	Concrete
z6co-796	MH-333	MH-334	578.75	578.36	577.74	577.41	33.8	150	0.17	100	1.52	0.002	0.8	0.86	0.8	2.7	0.011	Concrete
CO-129	MH-344	MH-496	575	575	574.05	574	54.7	150	0.4	1,000.00	0.529	0.485	0.8	0.8	0.85	74.2	0.01	Concrete
z6co-328	MH-122	MH-511	577.62	576.88	576.62	575.93	69	150	0.24	100	1.52	0.006	0.8	0.85	0.8	4.6	0.011	Concrete
CO-80	MH-338	MH-443	574.25	574	573.25	573.05	19.8	150	0.21	100	1.52	0.004	0.8	0.85	0.8	11.6	0.011	Concrete
CO-66	MH-651	MH-306	575	575	574.05	574	51.9	150	0.12	1,000.00	0.481	0.007	0.8	0.8	0.85	7	0.011	Concrete
z6co-583	MH-681	MH-682	583.02	583.01	582.07	582.02	53.7	150	0.15	1,000.00	0.481	0.019	0.8	0.8	0.84	11	0.011	Concrete
CO-21	MH-887	MH-910	606.69	606.17	605.74	605.17	95.2	150	0.47	168.52	1.171	0.096	0.8	0.8	0.84	25.7	0.011	Concrete
CO-22	MH-963	MH-910	606.18	606.17	605.23	605.17	56.1	150	0.25	1,000.00	0.481	0.094	0.8	0.8	0.84	30.6	0.011	Concrete
z6co-774	MH-518	MH-444	575	575	574.05	574.01	42.6	150	0.25	1,000.00	0.481	0.101	0.8	0.8	0.84	31	0.011	Concrete
z6co-688	MH-597	MH-608	575.71	575.18	574.72	574.23	48.9	150	0.35	100	1.52	0.019	0.8	0.84	0.8	11.1	0.011	Concrete
CO-58	MH-322	MH-182	574	574	573.05	573.01	22	150	0.13	533.33	0.658	0.006	0.8	0.8	0.84	9.4	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-100	MH-1039	MH-1008	605.53	604.78	604.54	603.83	70.9	150	1.06	100	1.52	0.923	0.8	0.84	0.8	59.6	0.011	Concrete
z6co-237	MH-419	MH-364	574	574	573.05	573.01	38.3	150	0.19	1,000.00	0.481	0.035	0.8	0.8	0.84	16.7	0.011	Concrete
z6co-275	MH-388	MH-252	575	575	574.05	574.01	37	150	0.12	1,000.00	0.481	0.008	0.8	0.8	0.84	7.2	0.011	Concrete
z6co-1255	MH-357	MH-284	574	574	573.05	573.01	35.3	150	0.1	1,000.00	0.481	0.005	0.8	0.8	0.84	7.4	0.011	Concrete
CO-40	MH-292	MH-10	601.75	601.43	600.77	600.48	28.7	150	0.37	100	1.52	0.023	0.8	0.83	0.8	9.1	0.011	Concrete
CO-160	MH-1066	MH-523	602.75	602.73	601.8	601.75	50.6	150	0.21	1,000.00	0.481	0.055	0.8	0.8	0.83	21.2	0.011	Concrete
CO-115	MH-523	MH-42	602.73	602.08	601.75	601.13	143.4	150	0.41	232.51	0.997	0.087	0.8	0.83	0.8	43.4	0.011	Concrete
z6co-985	MH-141	MH-154	589.05	588.76	588.06	587.81	25.1	150	0.4	100	1.52	0.03	0.8	0.83	0.8	10.2	0.011	Concrete
CO-39	MH-10	MH-451	601.43	601.12	600.45	600.17	27.8	150	0.37	100	1.52	0.023	0.8	0.83	0.8	9.1	0.011	Concrete
z6co-726	MH-443	MH-328	574	573.99	573.05	573.01	42	150	0.19	1,000.00	0.481	0.041	0.8	0.8	0.83	19.9	0.011	Concrete
CO-74	MH-30	MH-880	575	575	574.04	574.03	10.2	150	0.12	1,000.00	0.481	0.008	0.8	0.81	0.82	7.1	0.011	Concrete
CO-82	MH-515	MH-129	574.15	574.15	573.2	573.17	29.7	150	0.09	1,000.00	0.481	0.003	0.8	0.8	0.83	4.7	0.011	Concrete
z6co-662	MH-447	MH-446	574.95	574.92	573.99	573.95	39.1	150	0.14	1,000.00	0.481	0.014	0.8	0.81	0.82	13.3	0.011	Concrete
z6co-680	MH-273	MH-131	574	574	573.05	573.02	29.5	150	0.08	1,000.00	0.481	0.002	0.8	0.8	0.83	5.5	0.011	Concrete
z6co-1215	MH-130	MH-131	574	574	573.05	573.02	21.5	150	0.07	731.96	0.562	0.001	0.8	0.8	0.83	4.9	0.011	Concrete
z6co-2266	MH-228	MH-229	595.48	595.31	594.53	594.33	27.2	150	0.6	136.32	1.302	0.17	0.8	0.8	0.83	27.3	0.011	Concrete
z6co-984	MH-154	MH-153	588.76	588.5	587.78	587.55	23.1	150	0.44	100	1.52	0.041	0.8	0.83	0.8	12	0.011	Concrete
z6co-986	MH-142	MH-141	589.29	589.05	588.32	588.1	21.9	150	0.35	100	1.52	0.018	0.8	0.83	0.8	8.1	0.011	Concrete
z6co-732	MH-188	MH-189	575.28	575	574.3	574.05	25.4	150	0.28	100	1.52	0.01	0.8	0.83	0.8	6	0.011	Concrete
z6co-458	MH-821	MH-807	589.91	589.18	588.93	588.23	69.7	150	0.7	100	1.52	0.201	0.8	0.83	0.8	26.5	0.011	Concrete
CO-244	MH-337	MH-805	584.16	584	583.19	583.05	52.8	150	0.25	389.24	0.77	0.031	0.8	0.83	0.8	18.6	0.011	Concrete
CO-125	MH-574	MH-337	584.16	584.16	583.21	583.19	26.2	150	0.15	1,000.00	0.481	0.019	0.8	0.8	0.83	13.4	0.011	Concrete
z6co-2099	MH-709	MH-670	586.91	586.34	585.96	585.37	60.5	150	0.5	102.68	1.5	0.066	0.8	0.8	0.83	25.1	0.011	Concrete
z6co-2100	MH-670	MH-33	586.34	585.79	585.37	584.84	52.7	150	0.77	100	1.52	0.274	0.8	0.83	0.8	34.4	0.011	Concrete
z6co-702	MH-173	MH-783	575	574.53	574.03	573.58	62.7	150	0.22	140.51	1.282	0.007	0.8	0.82	0.8	8.9	0.011	Concrete
z6co-1774	MH-172	MH-173	575	575	574.05	574.03	24.6	150	0.1	1,000.00	0.481	0.005	0.8	0.8	0.82	6.1	0.011	Concrete
CO-50	MH-550	MH-531	575.32	575.04	574.35	574.09	25.9	150	0.35	100	1.52	0.019	0.8	0.82	0.8	12.6	0.011	Concrete
z6co-1760	MH-596	MH-597	576.22	575.71	575.24	574.76	48.4	150	0.3	100	1.52	0.011	0.8	0.82	0.8	6.4	0.011	Concrete
z6co-1731	MH-446	MH-491	574.92	574.85	573.95	573.9	52.7	150	0.17	1,000.00	0.481	0.024	0.8	0.82	0.8	15.9	0.011	Concrete
CO-197	MH-1014	MH-121	589.01	588.34	588.03	587.39	64.6	150	0.39	100	1.52	0.028	0.8	0.82	0.8	10	0.011	Concrete
CO-60	MH-225	MH-395	575	575	574.05	574.03	19.4	150	0.09	1,000.00	0.481	0.003	0.8	0.8	0.82	4.7	0.011	Concrete
z6co-2160	MH-779	MH-48	602.69	602.34	601.74	601.37	62.4	150	0.34	169.49	1.168	0.031	0.8	0.8	0.82	28.5	0.011	Concrete
z6co-2186	MH-309	MH-308	602.36	602.34	601.41	601.37	32	150	0.22	1,000.00	0.481	0.057	0.8	0.8	0.82	24	0.011	Concrete
CO-41	MH-308	MH-656	602.34	601.98	601.37	601.03	127.1	150	0.37	370.89	0.789	0.111	0.8	0.82	0.8	24.5	0.011	Concrete
z6co-2188	MH-451	MH-450	601.12	600.71	600.15	599.76	39.4	150	0.47	100	1.52	0.053	0.8	0.82	0.8	13.6	0.011	Concrete
z6co-1561	MH-35	MH-36	583.69	583.69	582.74	582.72	14.4	150	0.16	1,000.00	0.481	0.021	0.8	0.8	0.82	11.6	0.011	Concrete
z6co-1474	MH-436	MH-416	590.23	589.72	589.27	588.77	50	150	0.77	100	1.52	0.273	0.8	0.82	0.8	31	0.011	Concrete
CO-74	MH-27	MH-1054	598.47	597.74	597.5	596.79	71.7	150	0.22	100	1.52	0.004	0.8	0.82	0.8	11.2	0.011	Concrete
z6co-2148	MH-674	MH-673	603.77	603.73	602.82	602.77	53.1	150	0.16	1,000.00	0.481	0.02	0.8	0.8	0.81	19.7	0.011	Concrete
CO-151	MH-152	MH-433	580.99	580.74	580.03	579.79	23.3	150	0.21	100	1.52	0.004	0.8	0.81	0.8	3.7	0.011	Concrete
z6co-931	MH-807	MH-808	589.18	588.5	588.22	587.55	67.3	150	0.76	100	1.52	0.263	0.8	0.81	0.8	30.4	0.011	Concrete
z6co-1793	MH-18	MH-17	574	574	573.05	573.04	13.5	150	0.11	1,000.00	0.481	0.006	0.8	0.8	0.81	8.3	0.011	Concrete
z6co-2142	MH-905	MH-792	604.4	604.32	603.45	603.36	89.3	150	0.24	1,000.00	0.481	0.081	0.8	0.8	0.81	22.8	0.011	Concrete
z6co-1739	MH-110	MH-111	575	575	574.05	574.04	11.7	150	0.07	1,000.00	0.481	0.001	0.8	0.8	0.81	5.8	0.011	Concrete
z6co-182	MH-434	MH-447	575	574.95	574.05	573.99	60.3	150	0.11	1,000.00	0.481	0.006	0.8	0.8	0.81	9.7	0.011	Concrete
z6co-1771	MH-29	MH-30	575	575	574.05	574.04	10.1	150	0.11	1,000.00	0.481	0.006	0.8	0.8	0.81	8.4	0.011	Concrete
z6co-989	MH-99	MH-100	588.44	588.31	587.48	587.36	28.3	150	0.6	250.19	0.961	0.383	0.8	0.81	0.8	45.2	0.011	Concrete
z6co-2062	MH-98	MH-99	588.51	588.44	587.56	587.48	19.9	150	0.6	249.55	0.962	0.372	0.8	0.8	0.81	43	0.011	Concrete
z6co-176	MH-438	MH-257	573.95	573.55	572.99	572.6	38.9	150	0.2	100	1.52	0.003	0.8	0.81	0.8	3.5	0.011	Concrete
z6co-518	MH-66	MH-67	580.68	580.5	579.72	579.55	17.4	150	0.97	100	1.672	0.487	0.8	0.81	0.8	41	0.01	Concrete
CO-43	MH-907	MH-1022	600.9	600.65	599.95	599.69	37.6	150	0.6	148.58	1.247	0.191	0.8	0.8	0.81	27.1	0.011	Concrete
CO-51	MH-1026	MH-15	594.4	594.2	593.45	593.24	37.3	150	0.6	180.69	1.131	0.245	0.8	0.8	0.81	31.6	0.011	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-90	MH-589	MH-1054	598.24	597.74	597.29	596.79	50.1	150	0.45	100	1.52	0.043	0.8	0.81	0.8	15.7	0.011	Concrete
z6co-1172	MH-586	MH-127	572.35	572.25	571.4	571.29	47.7	150	0.19	450.4	0.716	0.016	0.8	0.8	0.81	34.2	0.011	Concrete
z6co-637	MH-127	MH-126	572.25	572.2	571.29	571.25	21.5	150	0.54	487.09	0.758	0.499	0.8	0.81	0.8	52.3	0.01	Concrete
z6co-136	MH-513	MH-501	584.53	584.49	583.58	583.54	42.4	150	0.18	1,000.00	0.481	0.033	0.8	0.8	0.81	18.6	0.011	Concrete
z6co-137	MH-501	MH-502	584.49	584.43	583.54	583.48	42	150	0.23	724.01	0.565	0.049	0.8	0.81	0.8	18.9	0.011	Concrete
z6co-2317	MH-459	MH-539	586.71	586.26	585.76	585.31	44.3	150	1.04	100	1.52	0.856	0.8	0.81	0.8	62.1	0.011	Concrete
z6co-2156	MH-207	MH-625	605.33	604.92	604.38	603.97	49.8	150	0.6	121.7	1.378	0.152	0.8	0.8	0.8	23.5	0.011	Concrete
z6co-2134	MH-208	MH-207	605.35	605.33	604.4	604.38	26.7	150	0.16	1,000.00	0.481	0.02	0.8	0.8	0.8	19.4	0.011	Concrete
z6co-1905	MH-781	MH-342	578.12	578.06	577.17	577.1	62.5	150	0.2	1,000.00	0.481	0.048	0.8	0.8	0.8	18.2	0.011	Concrete
z6co-2030	MH-80	MH-116	589.05	588.85	588.1	587.9	20.5	150	0.69	100	1.52	0.188	0.8	0.8	0.8	25.7	0.011	Concrete
z6co-1487	MH-79	MH-80	589.22	589.05	588.27	588.1	17.8	150	0.67	105.63	1.479	0.181	0.8	0.8	0.8	27.6	0.011	Concrete
CO-94	MH-316	MH-491	574.9	574.85	573.95	573.9	32.4	150	0.12	620.19	0.61	0.005	0.8	0.8	0.8	11.7	0.011	Concrete
z6co-1730	MH-491	MH-314	574.85	574.8	573.9	573.85	39	150	0.2	814.42	0.533	0.033	0.8	0.8	0.8	14.5	0.011	Concrete
CO-272	MH-979	MH-989	585.03	584.72	584.08	583.77	41.6	150	0.45	133.8	1.314	0.06	0.8	0.8	0.8	19.2	0.011	Concrete
CO-262	MH-1024	MH-889	584.64	584.57	583.69	583.62	29	150	0.22	397.33	0.763	0.021	0.8	0.8	0.8	10.2	0.011	Concrete
CO-249	MH-776	MH-431	582.87	582.83	581.92	581.88	22.9	150	0.31	532.01	0.659	0.094	0.8	0.8	0.8	22.4	0.011	Concrete
CO-247	MH-428	MH-502	584.54	584.43	583.59	583.48	20	150	0.24	188.23	1.108	0.013	0.8	0.8	0.8	12.8	0.011	Concrete
CO-246	MH-502	MH-805	584.43	584	583.48	583.05	56.1	150	0.49	130.41	1.331	0.081	0.8	0.8	0.8	20.9	0.011	Concrete
CO-202	MH-1080	MH-3	587.85	587.66	586.9	586.71	48.5	150	0.31	264.15	0.935	0.039	0.8	0.8	0.8	13.2	0.011	Concrete
CO-190	MH-76	MH-416	589.91	589.72	588.96	588.77	20.9	150	0.47	110.05	1.449	0.058	0.8	0.8	0.8	14.4	0.011	Concrete
CO-182	MH-1054	MH-901	597.74	597.48	596.79	596.53	29.5	150	0.51	116.02	1.411	0.083	0.8	0.8	0.8	17.3	0.011	Concrete
CO-169	MH-753	MH-927	598.52	598.25	597.57	597.3	40.6	150	0.74	149.83	1.242	0.395	0.8	0.8	0.8	39.6	0.011	Concrete
CO-168	MH-855	MH-753	598.84	598.52	597.89	597.57	50	150	0.66	154.94	1.221	0.286	0.8	0.8	0.8	37.8	0.011	Concrete
CO-146	MH-27	MH-223	580.96	580.81	580.01	579.86	14.9	150	0.45	100.25	1.518	0.044	0.8	0.8	0.8	12.5	0.011	Concrete
CO-104	MH-679	MH-461	607.24	607.16	606.29	606.21	37.9	150	0.31	464.54	0.705	0.079	0.8	0.8	0.8	20.2	0.011	Concrete
CO-51	MH-531	MH-412	575.04	575	574.09	574.05	40.1	150	0.18	962.32	0.49	0.03	0.8	0.8	0.8	13.7	0.011	Concrete
CO-44	MH-608	MH-537	575.18	575	574.23	574.05	83.2	150	0.23	464.82	0.705	0.028	0.8	0.8	0.8	12.1	0.011	Concrete
CO-22	MH-324	MH-408	577.51	577.48	576.56	576.53	17.3	150	0.17	606.93	0.617	0.014	0.8	0.8	0.8	8.8	0.011	Concrete
CO-21	MH-234	MH-245	577.2	577.19	576.25	576.24	3.9	150	0.21	595.6	0.623	0.028	0.8	0.8	0.8	14.2	0.011	Concrete
CO-20	MH-787	MH-234	577.31	577.19	576.36	576.25	69.2	150	0.17	606.2	0.617	0.014	0.8	0.8	0.8	12.2	0.011	Concrete
CO-4	MH-456	MH-576	578.71	578.55	577.76	577.6	50.2	150	0.27	308.38	0.866	0.031	0.8	0.8	0.8	12	0.011	Concrete
CO-3	MH-610	MH-456	578.93	578.71	577.98	577.76	69.5	150	0.22	307.81	0.866	0.016	0.8	0.8	0.8	11.1	0.011	Concrete
z6co-2114	MH-1043	MH-713	608.07	607.21	607.12	606.26	171.2	150	0.44	198.95	1.078	0.09	0.8	0.8	0.8	23.7	0.011	Concrete
z6co-2239	MH-1037	MH-598	605.8	604.55	604.85	603.6	150.3	150	0.42	120.08	1.387	0.044	0.8	0.8	0.8	19.4	0.011	Concrete
z6co-2171	MH-995	MH-630	605.22	604.74	604.27	603.79	122.8	150	0.42	257.52	0.947	0.111	0.8	0.8	0.8	25.4	0.011	Concrete
z6co-2113	MH-988	MH-989	585.54	584.72	584.59	583.77	116.7	150	0.39	143.16	1.27	0.043	0.8	0.8	0.8	18	0.011	Concrete
z6co-2112	MH-984	MH-985	585.71	584.89	584.76	583.94	116.4	150	0.34	142.75	1.272	0.026	0.8	0.8	0.8	10	0.011	Concrete
z6co-2234	MH-426	MH-963	606.81	606.18	605.86	605.23	104.7	150	0.43	166.32	1.179	0.069	0.8	0.8	0.8	23.2	0.011	Concrete
z6co-2258	MH-909	MH-87	587.15	586.51	586.2	585.56	90.4	150	0.35	142.23	1.275	0.029	0.8	0.8	0.8	17.1	0.011	Concrete
z6co-2238	MH-896	MH-897	606.52	606.13	605.57	605.18	75.9	150	0.47	193.05	1.094	0.111	0.8	0.8	0.8	21.3	0.011	Concrete
z6co-2210	MH-886	MH-814	601.8	601.05	600.85	600.1	84.9	150	0.54	113.7	1.426	0.095	0.8	0.8	0.8	23.2	0.011	Concrete
z6co-2073	MH-883	MH-3	588.01	587.66	587.06	586.71	50.5	150	0.36	145.33	1.261	0.032	0.8	0.8	0.8	11	0.011	Concrete
z6co-1183	MH-873	MH-874	572.5	572.07	571.55	571.12	85.4	150	0.33	198.47	1.079	0.035	0.8	0.8	0.8	12.1	0.011	Concrete
z6co-2116	MH-713	MH-749	607.21	606.6	606.26	605.65	81.4	150	0.62	134.03	1.313	0.192	0.8	0.8	0.8	30	0.011	Concrete
z6co-360	MH-248	MH-265	577.63	577.35	576.68	576.4	77.3	150	0.66	276.41	0.914	0.656	0.8	0.8	0.8	57.5	0.011	Concrete
z6co-2196	MH-854	MH-855	599.3	598.84	598.35	597.89	77.4	150	0.63	170.65	1.164	0.26	0.8	0.8	0.8	33.8	0.011	Concrete
z6co-2068	MH-94	MH-52	587.78	587.4	586.83	586.45	54.9	150	0.88	142.36	1.401	0.556	0.8	0.8	0.8	46	0.01	Concrete
z6co-2158	MH-845	MH-846	603.14	602.82	602.19	601.87	74.6	150	0.35	229.94	1.002	0.05	0.8	0.8	0.8	14.6	0.011	Concrete
z6co-1410	MH-839	MH-509	577.38	577.26	576.43	576.31	73.1	150	0.12	594.21	0.624	0.004	0.8	0.8	0.8	7.1	0.011	Concrete
z6co-2023	MH-836	MH-437	591.08	590.62	590.13	589.67	72.2	150	0.62	154.07	1.225	0.224	0.8	0.8	0.8	31.3	0.011	Concrete
z6co-2384	MH-831	MH-835	594.57	594.09	593.62	593.14	72	150	0.83	150.08	1.241	0.617	0.8	0.8	0.8	52.8	0.011	Concrete
z6co-1530	MH-828	MH-100	588.81	588.31	587.86	587.36	70.6	150	0.53	141.57	1.278	0.116	0.8	0.8	0.8	34.4	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-606	MH-140	MH-156	583.55	583.4	582.6	582.45	70.2	150	0.24	471.5	0.7	0.036	0.8	0.8	0.8	18.8	0.011	Concrete
z6co-327	MH-26	MH-818	577.74	576.99	576.79	576.04	107.2	150	0.14	143.29	1.27	0.002	0.8	0.8	0.8	2.5	0.011	Concrete
z6co-1156	MH-816	MH-817	583.09	582.98	582.14	582.03	69.1	150	0.19	604.27	0.618	0.019	0.8	0.8	0.8	17.7	0.011	Concrete
z6co-612	MH-806	MH-449	584.1	583.96	583.15	583.01	66.7	150	0.31	471	0.7	0.077	0.8	0.8	0.8	23.9	0.011	Concrete
z6co-2381	MH-800	MH-684	596.02	595.49	595.07	594.54	66.3	150	0.33	124.52	1.362	0.021	0.8	0.8	0.8	16.2	0.011	Concrete
z6co-349	MH-213	MH-799	577.46	577.38	576.51	576.43	66	150	0.12	829.12	0.528	0.006	0.8	0.8	0.8	6.1	0.011	Concrete
z6co-1936	MH-160	MH-786	577.54	577.42	576.59	576.47	64.8	150	0.12	558.38	0.643	0.004	0.8	0.8	0.8	7	0.011	Concrete
z6co-1413	MH-212	MH-793	577.38	577.3	576.43	576.35	63.9	150	0.13	829.02	0.528	0.007	0.8	0.8	0.8	6.8	0.011	Concrete
z6co-1937	MH-786	MH-787	577.42	577.31	576.47	576.36	63	150	0.15	584.03	0.629	0.009	0.8	0.8	0.8	9.2	0.011	Concrete
z6co-592	MH-777	MH-776	583.03	582.87	582.08	581.92	62.2	150	0.33	394.56	0.765	0.081	0.8	0.8	0.8	23.5	0.011	Concrete
z6co-1508	MH-772	MH-773	589.04	588.79	588.09	587.84	61.4	150	0.43	244.7	0.972	0.108	0.8	0.8	0.8	21.6	0.011	Concrete
z6co-2321	MH-464	MH-204	585.51	585.09	584.56	584.14	60.8	150	0.75	142.35	1.274	0.395	0.8	0.8	0.8	44.2	0.011	Concrete
z6co-1689	MH-755	MH-614	583.55	583.41	582.6	582.46	60.2	150	0.21	430.73	0.732	0.02	0.8	0.8	0.8	21.5	0.011	Concrete
z6co-2103	MH-743	MH-744	585.92	585.7	584.97	584.75	59.1	150	0.28	267.33	0.93	0.029	0.8	0.8	0.8	11.4	0.011	Concrete
z6co-2104	MH-740	MH-741	585.59	585.37	584.64	584.42	59	150	0.26	264.27	0.935	0.022	0.8	0.8	0.8	10	0.011	Concrete
z6co-1241	MH-737	MH-666	574.25	574	573.3	573.05	43.9	150	0.15	175.56	1.147	0.002	0.8	0.8	0.8	7.3	0.011	Concrete
z6co-2102	MH-735	MH-736	586.24	586.02	585.29	585.07	58.7	150	0.28	266.34	0.931	0.028	0.8	0.8	0.8	11.1	0.011	Concrete
z6co-2079	MH-733	MH-37	587.94	587.53	586.99	586.58	58	150	0.26	141.19	1.279	0.011	0.8	0.8	0.8	6.6	0.011	Concrete
z6co-1925	MH-722	MH-174	577.39	577.28	576.44	576.33	56.6	150	0.15	544.46	0.651	0.009	0.8	0.8	0.8	9.7	0.011	Concrete
z6co-2115	MH-714	MH-713	607.68	607.21	606.73	606.26	55.8	150	0.41	119.24	1.392	0.039	0.8	0.8	0.8	20.3	0.011	Concrete
z6co-2098	MH-708	MH-709	587.42	586.91	586.47	585.96	55.7	150	0.39	107.63	1.465	0.031	0.8	0.8	0.8	13.7	0.011	Concrete
z6co-1952	MH-705	MH-212	577.44	577.38	576.49	576.43	55.3	150	0.1	908.43	0.504	0.004	0.8	0.8	0.8	7.1	0.011	Concrete
z6co-1080	MH-702	MH-297	581.13	581.01	580.18	580.06	55.1	150	0.2	468.58	0.702	0.018	0.8	0.8	0.8	13.3	0.011	Concrete
z6co-1904	MH-683	MH-264	577.94	577.86	576.99	576.91	53.8	150	0.11	637.28	0.602	0.003	0.8	0.8	0.8	6.7	0.011	Concrete
z6co-1133	MH-680	MH-255	583.35	583.23	582.4	582.28	53.7	150	0.21	449.8	0.717	0.021	0.8	0.8	0.8	13.2	0.011	Concrete
z6co-2225	MH-303	MH-493	594.8	594	593.85	593.05	90.8	150	0.49	112.77	1.431	0.07	0.8	0.8	0.8	15.9	0.011	Concrete
z6co-2120	MH-678	MH-679	607.31	607.24	606.36	606.29	53.5	150	0.21	797.56	0.538	0.043	0.8	0.8	0.8	20.6	0.011	Concrete
z6co-2199	MH-541	MH-632	599.7	599.37	598.75	598.42	50.3	150	0.41	154.07	1.225	0.055	0.8	0.8	0.8	14.6	0.011	Concrete
z6co-2165	MH-630	MH-552	604.74	604.3	603.79	603.35	50.2	150	0.66	113.36	1.428	0.188	0.8	0.8	0.8	30	0.011	Concrete
z6co-1372	MH-622	MH-584	577.31	577.22	576.36	576.27	49.7	150	0.17	577.71	0.632	0.014	0.8	0.8	0.8	9.6	0.011	Concrete
z6co-1173	MH-613	MH-586	572.46	572.35	571.51	571.4	49.5	150	0.17	448.89	0.717	0.01	0.8	0.8	0.8	9.1	0.011	Concrete
z6co-2256	MH-602	MH-516	587.46	587.12	586.51	586.17	48.5	150	0.34	142.04	1.275	0.027	0.8	0.8	0.8	12.7	0.011	Concrete
z6co-2070	MH-205	MH-98	588.84	588.51	587.89	587.56	47.6	150	0.66	140.98	1.28	0.256	0.8	0.8	0.8	37.6	0.011	Concrete
z6co-166	MH-572	MH-352	572.5	572.35	571.55	571.4	46.6	150	0.4	310.9	0.862	0.116	0.8	0.8	0.8	23.4	0.011	Concrete
z6co-2166	MH-552	MH-553	604.3	603.92	603.35	602.97	45.4	150	0.7	120.25	1.386	0.249	0.8	0.8	0.8	30.3	0.011	Concrete
z6co-2124	MH-546	MH-547	606.29	606.01	605.34	605.06	44.8	150	0.37	160.07	1.201	0.039	0.8	0.8	0.8	21.5	0.011	Concrete
z6co-873	MH-221	MH-323	577.64	577.57	576.69	576.62	44.5	150	0.14	655.67	0.594	0.009	0.8	0.8	0.8	8.8	0.011	Concrete
z6co-315	MH-441	MH-470	577.85	577.37	576.9	576.42	50.5	150	0.4	104.64	1.486	0.032	0.8	0.8	0.8	10.7	0.011	Concrete
z6co-1883	MH-530	MH-531	575.29	575.04	574.34	574.09	42.5	150	0.21	171.69	1.16	0.007	0.8	0.8	0.8	11	0.011	Concrete
z6co-1940	MH-246	MH-525	577.14	577.07	576.19	576.12	43.2	150	0.22	618.24	0.611	0.033	0.8	0.8	0.8	13.6	0.011	Concrete
z6co-2257	MH-516	MH-517	587.12	586.82	586.17	585.87	42.6	150	0.42	143.91	1.267	0.055	0.8	0.8	0.8	16.8	0.011	Concrete
z6co-1804	MH-514	MH-515	574.25	574.15	573.3	573.2	24.8	150	0.13	246.89	0.967	0.002	0.8	0.8	0.8	4.5	0.011	Concrete
z6co-877	MH-509	MH-510	577.26	577.2	576.31	576.25	42.3	150	0.14	711.94	0.57	0.009	0.8	0.8	0.8	7.2	0.011	Concrete
z6co-1177	MH-400	MH-276	572.35	572.15	571.4	571.2	42.3	150	0.43	211.84	1.044	0.092	0.8	0.8	0.8	19.6	0.011	Concrete
z6co-1857	MH-392	MH-287	578.6	578.31	577.65	577.36	30.2	150	0.37	104.74	1.485	0.024	0.8	0.8	0.8	9.3	0.011	Concrete
z6co-53	MH-487	MH-488	580.74	580.52	579.79	579.57	41.3	150	0.42	187.3	1.111	0.076	0.8	0.8	0.8	21.6	0.011	Concrete
z6co-886	MH-455	MH-456	578.76	578.71	577.81	577.76	41.2	150	0.1	788.5	0.541	0.004	0.8	0.8	0.8	9.4	0.011	Concrete
z6co-1943	MH-372	MH-233	577.33	577.26	576.38	576.31	39.6	150	0.15	578.61	0.632	0.008	0.8	0.8	0.8	8.3	0.011	Concrete
z6co-132	MH-449	MH-336	583.96	583.89	583.01	582.94	39.4	150	0.29	605.46	0.618	0.091	0.8	0.8	0.8	23.1	0.011	Concrete
z6co-1599	MH-439	MH-277	581.58	581.29	580.63	580.34	39.2	150	0.3	136.86	1.299	0.016	0.8	0.8	0.8	7.9	0.011	Concrete
z6co-948	MH-437	MH-436	590.62	590.23	589.67	589.28	38.8	150	0.74	101.6	1.508	0.249	0.8	0.8	0.8	29.7	0.011	Concrete
z6co-1144	MH-363	MH-371	583.75	583.65	582.8	582.7	37.9	150	0.33	386.78	0.773	0.08	0.8	0.8	0.8	20.4	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-51	MH-414	MH-71	581.01	580.78	580.06	579.83	37.8	150	0.27	165.31	1.182	0.014	0.8	0.8	0.8	7.5	0.011	Concrete
z6co-1176	MH-399	MH-400	572.45	572.35	571.5	571.4	37.3	150	0.35	371.86	0.788	0.087	0.8	0.8	0.8	21	0.011	Concrete
z6co-1856	MH-282	MH-392	578.89	578.6	577.94	577.65	37.1	150	0.33	127.86	1.344	0.02	0.8	0.8	0.8	9.4	0.011	Concrete
z6co-1434	MH-385	MH-16	580.36	580.03	579.41	579.08	37	150	0.29	111.98	1.436	0.012	0.8	0.8	0.8	6.7	0.011	Concrete
z6co-1184	MH-381	MH-274	572.5	572.45	571.55	571.5	36.7	150	0.27	731.52	0.562	0.084	0.8	0.8	0.8	22.2	0.011	Concrete
z6co-428	MH-373	MH-47	579.93	579.59	578.98	578.64	36.2	150	0.4	107.27	1.468	0.033	0.8	0.8	0.8	10.8	0.011	Concrete
z6co-1942	MH-356	MH-372	577.39	577.33	576.44	576.38	35.9	150	0.13	562.28	0.641	0.005	0.8	0.8	0.8	7	0.011	Concrete
z6co-1679	MH-362	MH-363	583.83	583.75	582.88	582.8	35.5	150	0.3	453.99	0.713	0.07	0.8	0.8	0.8	21.2	0.011	Concrete
z6co-1432	MH-361	MH-275	580.33	580.27	579.38	579.32	35.1	150	0.18	594.51	0.623	0.018	0.8	0.8	0.8	10.4	0.011	Concrete
z6co-1945	MH-358	MH-220	577.75	577.69	576.8	576.74	35.4	150	0.11	602.79	0.619	0.003	0.8	0.8	0.8	5.8	0.011	Concrete
z6co-1941	MH-355	MH-356	577.45	577.39	576.5	576.44	35.3	150	0.1	576.98	0.633	0.002	0.8	0.8	0.8	5.1	0.011	Concrete
z6co-211	MH-327	MH-200	575.78	575.56	574.83	574.61	33.3	150	0.17	150.74	1.238	0.003	0.8	0.8	0.8	3.4	0.011	Concrete
z6co-523	MH-326	MH-163	582.01	581.76	581.06	580.81	32.7	150	0.28	130.93	1.328	0.014	0.8	0.8	0.8	7.2	0.011	Concrete
z6co-1948	MH-323	MH-324	577.57	577.51	576.62	576.56	33	150	0.17	531.89	0.659	0.012	0.8	0.8	0.8	9.7	0.011	Concrete
z6co-1338	MH-318	MH-319	577.32	577.08	576.37	576.13	32.8	150	0.42	142.34	1.274	0.054	0.8	0.8	0.8	14.3	0.011	Concrete
z6co-178	MH-314	MH-258	574.8	574.5	573.85	573.55	32.3	150	0.42	107.7	1.465	0.037	0.8	0.8	0.8	11.5	0.011	Concrete
z6co-547	MH-297	MH-27	581.01	580.96	580.06	580.01	31.5	150	0.22	583.18	0.629	0.034	0.8	0.8	0.8	14.5	0.011	Concrete
z6co-1337	MH-296	MH-236	577.75	577.55	576.8	576.6	30.2	150	0.2	148.87	1.246	0.005	0.8	0.8	0.8	4.3	0.011	Concrete
z6co-1855	MH-281	MH-282	579.02	578.89	578.07	577.94	31	150	0.24	229.34	1.004	0.014	0.8	0.8	0.8	8.7	0.011	Concrete
z6co-420	MH-275	MH-16	580.27	580.03	579.32	579.08	30.4	150	0.33	127.33	1.347	0.021	0.8	0.8	0.8	8.9	0.011	Concrete
z6co-850	MH-266	MH-265	577.41	577.35	576.46	576.4	29.4	150	0.15	515.49	0.669	0.007	0.8	0.8	0.8	27.4	0.011	Concrete
z6co-1134	MH-255	MH-256	583.23	583.17	582.28	582.22	29.1	150	0.25	439.27	0.725	0.035	0.8	0.8	0.8	14.2	0.011	Concrete
z6co-1399	MH-245	MH-246	577.19	577.14	576.24	576.19	28.4	150	0.23	498.85	0.681	0.03	0.8	0.8	0.8	14.9	0.011	Concrete
z6co-870	MH-233	MH-234	577.26	577.2	576.31	576.25	27.6	150	0.17	474.6	0.698	0.012	0.8	0.8	0.8	11.6	0.011	Concrete
z6co-397	MH-220	MH-221	577.69	577.64	576.74	576.69	27.1	150	0.13	542.01	0.653	0.006	0.8	0.8	0.8	7.5	0.011	Concrete
z6co-2071	MH-206	MH-205	589.03	588.84	588.08	587.89	26.5	150	0.65	141.34	1.279	0.233	0.8	0.8	0.8	31.9	0.011	Concrete
z6co-991	MH-101	MH-119	588.17	588.01	587.22	587.06	24.2	150	0.85	151.44	1.359	0.526	0.8	0.8	0.8	47.7	0.01	Concrete
z6co-1547	MH-84	MH-92	588.27	588.12	587.32	587.17	21.9	150	0.37	154.45	1.223	0.04	0.8	0.8	0.8	13.5	0.011	Concrete
z6co-1139	MH-139	MH-140	583.59	583.55	582.64	582.6	21.9	150	0.2	654.93	0.594	0.028	0.8	0.8	0.8	14.9	0.011	Concrete
z6co-1519	MH-123	MH-98	588.58	588.51	587.63	587.56	21.4	150	0.4	284.43	0.901	0.106	0.8	0.8	0.8	32.8	0.011	Concrete
z6co-992	MH-119	MH-93	588.01	587.85	587.06	586.9	21.2	150	0.88	138.33	1.422	0.535	0.8	0.8	0.8	49.8	0.01	Concrete
z6co-2028	MH-82	MH-79	589.42	589.22	588.47	588.27	20.2	150	0.66	102.26	1.503	0.172	0.8	0.8	0.8	26.9	0.011	Concrete
z6co-2064	MH-100	MH-101	588.31	588.17	587.36	587.22	19.9	150	0.87	137.37	1.427	0.515	0.8	0.8	0.8	47.2	0.01	Concrete
z6co-1545	MH-95	MH-83	588.54	588.4	587.59	587.45	19.7	150	0.3	137.02	1.299	0.017	0.8	0.8	0.8	9.4	0.011	Concrete
z6co-993	MH-93	MH-94	587.85	587.78	586.9	586.83	19.5	150	0.69	272.93	1.012	0.546	0.8	0.8	0.8	50.2	0.01	Concrete
z6co-1548	MH-92	MH-88	588.12	587.98	587.17	587.03	19.4	150	0.42	136.99	1.299	0.052	0.8	0.8	0.8	14	0.011	Concrete
z6co-1546	MH-83	MH-84	588.4	588.27	587.45	587.32	18.1	150	0.35	135.4	1.306	0.028	0.8	0.8	0.8	11.6	0.011	Concrete
z6co-2027	MH-81	MH-82	589.59	589.42	588.64	588.47	17.9	150	0.65	105.34	1.481	0.161	0.8	0.8	0.8	26.2	0.011	Concrete
z6co-2024	MH-75	MH-76	590.08	589.91	589.13	588.96	17.6	150	0.46	103.89	1.491	0.05	0.8	0.8	0.8	14.8	0.011	Concrete
z6co-20	MH-60	MH-61	584.44	584.39	583.49	583.44	16.5	150	0.29	343.53	0.82	0.045	0.8	0.8	0.8	14.5	0.011	Concrete
z6co-2031	MH-56	MH-57	588.72	588.56	587.77	587.61	16.4	150	0.37	104.73	1.485	0.026	0.8	0.8	0.8	9.6	0.011	Concrete
z6co-2101	MH-33	MH-34	585.79	585.71	584.84	584.76	14.1	150	0.63	179.47	1.135	0.292	0.8	0.8	0.8	34.5	0.011	Concrete
z6co-1039	MH-9	MH-10	584.33	584.3	583.38	583.35	9.2	150	0.23	314.08	0.858	0.017	0.8	0.8	0.8	8.8	0.011	Concrete
z6co-2057	MH-5	MH-6	588.76	588.7	587.81	587.75	25.3	150	0.25	421.23	0.741	0.036	0.8	0.8	0.8	13.5	0.011	Concrete
CO-13	MH-3131	MH-4	585.17	584.42	584.22	583.47	101.4	150	0.19	134.4	1.311	0.004	0.8	0.8	0.8	4	0.011	Concrete
CO-18	MH-6	MH-974	588.73	587.96	587.78	587.01	79.3	150	0.21	103.13	1.497	0.004	0.8	0.8	0.8	12.6	0.011	Concrete
CO-38	MH-1020	MH-987	606.52	602.21	605.57	601.26	539.9	150	0.87	125.37	1.358	0.569	0.8	0.8	0.8	47	0.011	Concrete
CO-42	MH-656	MH-657	601.98	601.52	601.03	600.57	52	150	0.61	112.42	1.434	0.141	0.8	0.8	0.8	22.5	0.011	Concrete
CO-45	MH-11	MH-619	602.08	600.98	601.13	600.03	125.4	150	0.21	114.75	1.419	0.004	0.8	0.8	0.8	3.9	0.011	Concrete
CO-92	MH-36	MH-913	597.24	596.49	596.29	595.54	97.4	150	0.19	131.2	1.327	0.004	0.8	0.8	0.8	4	0.011	Concrete
CO-103	MH-401	MH-148	593.86	593.75	592.91	592.8	37.4	150	0.3	347.23	0.816	0.049	0.8	0.8	0.8	21.3	0.011	Concrete
CO-116	MH-42	MH-1060	602.08	601.94	601.13	600.99	31.5	150	0.76	220.44	1.024	0.828	0.8	0.8	0.8	63.7	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-122	MH-336	MH-157	583.89	583.57	582.94	582.62	40.5	150	0.53	127.43	1.347	0.105	0.8	0.8	0.8	19.6	0.011	Concrete
CO-123	MH-44	MH-574	584.45	584.16	583.5	583.21	29.9	150	0.21	103.07	1.497	0.004	0.8	0.8	0.8	8.6	0.011	Concrete
CO-133	MH-512	MH-601	576.4	576.28	575.45	575.33	17.3	150	0.76	145.6	1.26	0.427	0.8	0.8	0.8	45.3	0.011	Concrete
CO-265	MH-736	MH-900	586.02	586.41	581.57	581.42	55.9	175	0.6	387.79	1.281	0.538	4.5	4.27	4.81	42	0.01	HDPE
z6co-63	MH-224	MH-269	580.51	580.18	576.92	576.85	29.7	175	0.6	389.02	1.279	0.541	3.3	3.41	3.15	42.1	0.01	HDPE
z6co-1105	MH-43	MH-20	583.81	583.76	580.93	580.89	15.2	175	0.6	450.79	1.188	0.674	2.7	2.71	2.69	48.7	0.01	HDPE
CO-236	MH-682	MH-481	583.01	583.17	580.6	580.57	13.7	175	0.6	496.91	1.131	0.794	2.3	2.24	2.42	53.9	0.01	HDPE
z6co-2150	MH-410	MH-411	602.51	602.08	599.87	599.79	37.7	175	0.6	431.67	1.214	0.631	2.3	2.46	2.12	50.4	0.01	HDPE
CO-237	MH-659	MH-682	582.87	583.01	580.62	580.6	12.8	175	0.6	488.46	1.141	0.771	2.2	2.07	2.24	59.5	0.01	HDPE
z6co-572	MH-860	MH-43	582.86	583.81	581.11	580.93	82.2	175	0.6	440.47	1.202	0.649	2.1	1.57	2.71	52.4	0.01	HDPE
z6co-434	MH-545	MH-1062	581.74	579.97	578.92	578.42	217.5	175	0.6	438.93	1.204	0.647	2	2.65	1.38	53.3	0.01	HDPE
z6co-1430	MH-280	MH-1040	579.7	579.19	577.53	577.03	237.7	175	0.6	476.55	1.155	0.739	2	1.99	1.98	58.2	0.01	HDPE
CO-235	MH-482	MH-659	582.7	582.87	580.64	580.62	8.4	175	0.6	480.54	1.151	0.749	2	1.88	2.07	59	0.01	HDPE
CO-30	MH-411	MH-1044	602.08	601.4	599.79	599.5	123.6	175	0.6	431.67	1.214	0.631	1.9	2.12	1.73	46.6	0.01	HDPE
CO-36	MH-1040	MH-780	579.19	578.91	577.03	576.95	38.8	175	0.6	487.66	1.142	0.769	1.9	1.98	1.78	53.3	0.01	HDPE
CO-232	MH-645	MH-482	582.67	582.7	580.66	580.64	9	175	0.6	479.76	1.151	0.747	1.9	1.83	1.88	58.3	0.01	HDPE
z6co-485	MH-97	MH-242	584.08	584.07	582.16	582.1	28.3	175	0.6	445.2	1.195	0.662	1.8	1.74	1.8	53	0.01	HDPE
z6co-1982	MH-1062	MH-280	579.97	579.7	578.42	577.53	412.4	175	0.6	463.44	1.172	0.705	1.7	1.38	1.99	56.2	0.01	HDPE
CO-233	MH-677	MH-645	582.41	582.67	580.71	580.66	23.2	175	0.6	471.23	1.162	0.723	1.7	1.52	1.83	57.2	0.01	HDPE
CO-208	MH-52	MH-7	587.4	588.25	586.11	585.87	113.5	175	0.6	465.38	1.169	0.71	1.7	1.11	2.21	52.3	0.01	HDPE
z6co-484	MH-96	MH-97	583.9	584.08	582.21	582.16	19.8	175	0.6	422.16	1.228	0.609	1.6	1.51	1.74	50.8	0.01	HDPE
z6co-2285	MH-478	MH-612	606.49	606.2	604.65	604.52	49.3	175	0.6	389.04	1.279	0.541	1.6	1.67	1.5	45.4	0.01	HDPE
z6co-4	MH-242	MH-347	584.07	583.49	582.1	582.02	34.7	175	0.6	453.1	1.185	0.68	1.5	1.8	1.3	55.2	0.01	HDPE
z6co-2286	MH-612	MH-640	606.2	605.99	604.52	604.39	51.2	175	0.6	398.44	1.264	0.56	1.5	1.5	1.43	46.8	0.01	HDPE
CO-158	MH-959	MH-739	605.99	605.55	604.24	604.06	83.8	175	0.6	466.27	1.168	0.712	1.4	1.58	1.32	53	0.01	HDPE
CO-231	MH-694	MH-677	582.27	582.41	580.77	580.71	24.5	175	0.6	444.56	1.196	0.66	1.4	1.33	1.52	54.4	0.01	HDPE
CO-252	MH-687	MH-860	582.7	582.86	581.27	581.11	63.8	175	0.6	421.99	1.228	0.609	1.4	1.26	1.57	50.3	0.01	HDPE
CO-179	MH-1001	MH-725	597.59	596.5	595.56	595.37	86.2	175	0.6	446.63	1.193	0.665	1.4	1.85	0.95	48.2	0.01	HDPE
CO-111	MH-825	MH-770	603.81	601.88	601.74	600.83	122.2	175	1.08	134.15	2.178	1.166	1.4	1.89	0.88	59.9	0.01	HDPE
CO-187	MH-1064	MH-1078	591.65	592.51	590.67	590.42	126.9	175	0.6	494.98	1.134	0.789	1.4	0.8	1.91	54.2	0.01	HDPE
CO-226	MH-607	MH-261	582.35	582.3	580.84	580.79	20.9	175	0.6	388.18	1.28	0.539	1.3	1.34	1.33	45.8	0.01	HDPE
CO-229	MH-261	MH-694	582.3	582.27	580.79	580.77	7.9	175	0.6	390.42	1.276	0.543	1.3	1.33	1.33	49.6	0.01	HDPE
z6co-5	MH-347	MH-249	583.49	583.3	582.02	581.88	66.4	175	0.6	474.36	1.158	0.733	1.3	1.3	1.25	58.7	0.01	HDPE
z6co-2287	MH-640	MH-13	605.99	605.47	604.39	604.26	55	175	0.6	411.05	1.244	0.586	1.2	1.43	1.04	49.9	0.01	HDPE
z6co-6	MH-249	MH-250	583.3	583.21	581.88	581.82	32.1	175	0.6	495.29	1.133	0.789	1.2	1.25	1.22	54.3	0.01	HDPE
CO-159	MH-739	MH-1023	605.55	605.15	604.06	603.84	65	175	0.72	296.14	1.466	0.762	1.2	1.32	1.14	49.9	0.01	HDPE
CO-253	MH-387	MH-687	582.75	582.7	581.45	581.27	22.6	175	0.93	123.92	2.266	0.587	1.2	1.13	1.26	45.1	0.01	HDPE
CO-68	MH-1032	MH-22	592.54	591.8	591.48	590.16	217.1	175	0.98	164.68	1.965	1.05	1.2	0.89	1.47	53.5	0.01	HDPE
z6co-483	MH-775	MH-96	583.34	583.9	582.37	582.21	62	175	0.6	386.87	1.282	0.536	1.2	0.8	1.51	46.8	0.01	HDPE
z6co-1478	MH-667	MH-402	588.37	587.6	586.75	586.56	89.6	175	0.6	473.55	1.159	0.73	1.2	1.45	0.87	53.5	0.01	HDPE
z6co-761	MH-137	MH-136	575	575	573.71	573.65	21.6	175	0.6	388.96	1.279	0.54	1.1	1.11	1.17	42.1	0.01	HDPE
CO-140	MH-504	MH-278	575.25	575	573.86	573.79	26.6	175	0.6	385.22	1.285	0.533	1.1	1.22	1.04	44.4	0.01	HDPE
CO-173	MH-804	MH-914	597.29	596.47	595.68	595.5	50.2	175	0.84	272.69	1.527	1.3	1.1	1.43	0.8	66	0.01	HDPE
z6co-762	MH-278	MH-137	575	575	573.79	573.71	30.5	175	0.6	387.47	1.281	0.538	1.1	1.04	1.11	44.7	0.01	HDPE
z6co-2288	MH-13	MH-14	605.47	605.38	604.26	604.23	9.9	175	0.6	442.25	1.199	0.655	1	1.04	0.97	52.4	0.01	HDPE
CO-110	MH-1023	MH-825	605.15	603.81	603.84	602.83	100.7	175	1.11	100	2.522	0.832	1	1.14	0.8	44.2	0.01	HDPE
z6co-361	MH-265	MH-634	577.35	577.49	576.38	576.21	75.7	175	0.6	451.73	1.187	0.676	1	0.8	1.11	48.8	0.01	HDPE
CO-78	MH-28	MH-843	599.2	597.88	597.94	596.91	102.7	175	1.27	100	2.522	1.412	0.9	1.09	0.8	58.9	0.01	HDPE
CO-77	MH-1041	MH-28	600.11	599.2	598.93	598.23	70.5	175	1.27	100	2.522	1.412	0.9	1	0.8	58.9	0.01	HDPE
z6co-2289	MH-14	MH-620	605.38	605.04	604.23	604.07	74.2	175	0.6	443.39	1.198	0.668	0.9	0.97	0.8	49.1	0.01	HDPE
z6co-2292	MH-639	MH-239	604.28	603.2	603.14	602.22	92	175	1.11	100	2.522	0.828	0.9	0.96	0.8	44.1	0.01	HDPE
z6co-2291	MH-621	MH-639	604.59	604.28	603.62	603.14	50.7	175	1.06	107.37	2.434	0.769	0.9	0.8	0.96	48.3	0.01	HDPE

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-2388	MH-903	MH-906	593.24	592.4	592.26	591.34	133	175	1.04	144.9	2.095	1.095	0.8	0.8	0.88	57.7	0.01	HDPE
z6co-2389	MH-906	MH-149	592.4	591.42	591.34	590.45	89.5	175	1.21	100	2.522	1.153	0.8	0.88	0.8	52.7	0.01	HDPE
z6co-2201	MH-770	MH-1041	601.88	600.11	600.83	599.13	169.4	175	1.23	100	2.522	1.247	0.8	0.88	0.8	55	0.01	HDPE
z6co-2251	MH-402	MH-403	587.6	587.33	586.56	586.36	37.4	175	0.89	186.88	1.845	0.863	0.8	0.87	0.8	50.7	0.01	HDPE
z6co-2300	MH-524	MH-769	600.53	599.86	599.49	598.88	61.1	175	1.22	100	2.522	1.187	0.8	0.86	0.8	53.5	0.01	HDPE
z6co-2386	MH-851	MH-902	594	593.59	592.96	592.61	90.5	175	0.79	260.61	1.562	0.886	0.8	0.86	0.8	55.2	0.01	HDPE
z6co-2385	MH-835	MH-851	594.09	594	593.12	592.96	76.8	175	0.6	495.28	1.133	0.789	0.8	0.8	0.86	56.8	0.01	HDPE
z6co-2295	MH-135	MH-48	602.76	602.34	601.74	601.36	37.4	175	1.14	100	2.522	0.923	0.8	0.85	0.8	46.7	0.01	HDPE
z6co-2294	MH-134	MH-135	602.9	602.76	601.93	601.74	21.6	175	1.09	112.04	2.383	0.907	0.8	0.8	0.85	51.9	0.01	HDPE
z6co-2299	MH-272	MH-524	601.01	600.53	599.99	599.56	43.1	175	1.2	100	2.522	1.137	0.8	0.85	0.8	52.3	0.01	HDPE
z6co-2297	MH-49	MH-271	602.16	601.35	601.19	600.34	86.3	175	1.16	101.48	2.504	1.018	0.8	0.8	0.83	55.9	0.01	HDPE
z6co-2298	MH-271	MH-272	601.35	601.01	600.34	600.03	30	175	1.19	100	2.522	1.094	0.8	0.83	0.8	51.2	0.01	HDPE
z6co-2296	MH-48	MH-49	602.34	602.16	601.34	601.19	15.5	175	1.16	100	2.522	0.977	0.8	0.82	0.8	54.3	0.01	HDPE
z6co-2293	MH-239	MH-134	603.2	602.9	602.21	601.93	28.2	175	1.13	100	2.522	0.884	0.8	0.81	0.8	51.3	0.01	HDPE
CO-194	MH-403	MH-418	587.33	586.76	586.36	585.79	82.1	175	0.99	143.31	2.107	0.892	0.8	0.8	0.8	48	0.01	HDPE
z6co-2387	MH-902	MH-903	593.59	593.24	592.61	592.26	88.9	175	0.82	252.46	1.587	1.011	0.8	0.8	0.8	57.1	0.01	HDPE
z6co-2290	MH-620	MH-621	605.04	604.59	604.07	603.62	49.7	175	1.03	110.1	2.404	0.713	0.8	0.8	0.8	46.4	0.01	HDPE
z6co-1109	MH-186	MH-20	583.73	583.76	580.41	580.36	28.3	217	0.6	602.94	1.823	1.044	3.1	3.1	3.18	51.1	0.01	HDPE
CO-152	MH-809	MH-629	604.28	604.12	600.99	600.86	75	217	0.6	547.63	1.913	0.902	3.1	3.07	3.05	54.6	0.01	HDPE
z6co-1645	MH-187	MH-186	583.66	583.73	580.45	580.41	25.3	217	0.6	598.83	1.829	1.033	3	2.99	3.1	53.1	0.01	HDPE
CO-209	MH-7	MH-918	588.25	589.3	585.83	585.68	94.7	217	0.6	648.39	1.758	1.178	2.8	2.21	3.4	51.9	0.01	HDPE
CO-153	MH-629	MH-824	604.12	603.4	600.86	600.67	124.2	217	0.6	666.31	1.734	1.236	2.8	3.05	2.51	62.8	0.01	HDPE
CO-238	MH-712	MH-187	583.29	583.66	580.51	580.45	32	217	0.6	579.5	1.859	0.981	2.8	2.57	2.99	52.1	0.01	HDPE
z6co-2449	MH-603	MH-604	574.98	574.94	572.05	571.98	48.6	217	0.6	639.17	1.77	1.149	2.7	2.71	2.75	58.2	0.01	HDPE
CO-37	MH-780	MH-976	578.91	577.99	575.78	575.53	128.3	217	0.6	517.49	1.968	0.83	2.6	2.91	2.24	45.4	0.01	HDPE
z6co-478	MH-993	MH-697	606.11	606.65	603.74	603.57	103.6	217	0.6	639.97	1.769	1.152	2.5	2.16	2.86	51.2	0.01	HDPE
CO-239	MH-481	MH-712	583.17	583.29	580.53	580.51	11.4	217	0.6	504.26	1.993	0.801	2.5	2.42	2.57	48.7	0.01	HDPE
z6co-479	MH-697	MH-698	606.65	605.48	603.57	603.28	54.7	217	0.96	183.5	3.304	1.172	2.4	2.86	1.99	45.1	0.01	HDPE
z6co-2450	MH-604	MH-938	574.94	574	571.98	571.77	135.5	217	0.6	645	1.762	1.167	2.4	2.75	2.02	51.5	0.01	HDPE
CO-155	MH-824	MH-846	603.4	602.82	600.67	600.6	52.2	217	0.6	685.27	1.71	1.306	2.3	2.51	2	56.3	0.01	HDPE
z6co-2448	MH-623	MH-603	574.06	574.98	572.78	572.05	72.7	217	1.15	100.03	4.475	1.017	1.9	1.06	2.71	49.6	0.01	HDPE
CO-154	MH-846	MH-1044	602.82	601.4	600.6	599.46	125.1	217	1.21	109.91	4.269	1.376	1.9	2	1.73	43.5	0.01	HDPE
CO-115	MH-626	MH-811	582.81	582.94	580.82	580.78	26.5	217	0.6	664.51	1.736	1.23	1.9	1.77	1.94	52.8	0.01	HDPE
CO-52	MH-62	MH-332	575	575	572.98	572.96	16.1	217	0.6	689.73	1.704	1.322	1.8	1.8	1.82	54.4	0.01	HDPE
z6co-2444	MH-976	MH-692	577.99	576.83	575.53	575.23	159.8	217	0.6	530.7	1.943	0.861	1.8	2.24	1.38	46.6	0.01	HDPE
z6co-1833	MH-41	MH-62	575	575	573.04	572.98	37.6	217	0.6	688.98	1.705	1.319	1.8	1.75	1.8	62.8	0.01	HDPE
z6co-920	MH-925	MH-926	579.62	579.57	577.7	577.55	94	217	0.6	662.6	1.739	1.226	1.8	1.71	1.8	61.9	0.01	HDPE
z6co-2447	MH-199	MH-623	575.84	574.06	573.21	572.78	250.7	217	0.6	582.6	1.854	0.989	1.7	2.41	1.06	46.3	0.01	HDPE
z6co-1841	MH-42	MH-41	575	575	573.06	573.04	15	217	0.6	687.74	1.707	1.315	1.7	1.72	1.75	64.5	0.01	HDPE
z6co-926	MH-1036	MH-366	584.56	581.13	581.74	580.12	162.1	217	1.45	100	4.476	2.366	1.7	2.6	0.8	57.7	0.01	HDPE
z6co-1842	MH-335	MH-42	575	575	573.11	573.06	36	217	0.6	687.48	1.707	1.314	1.7	1.67	1.72	64.7	0.01	HDPE
z6co-918	MH-719	MH-925	579.69	579.62	577.88	577.7	118.7	217	0.6	631.03	1.782	1.124	1.6	1.59	1.71	58.9	0.01	HDPE
CO-277	MH-485	MH-1068	588.46	585.53	585.77	584.51	125.3	217	1.35	100	4.476	1.826	1.6	2.48	0.8	50	0.01	HDPE
z6co-448	MH-926	MH-609	579.57	579.1	577.55	577.41	100.7	217	0.6	674.44	1.724	1.266	1.6	1.8	1.48	63.1	0.01	HDPE
CO-177	MH-725	MH-948	596.5	596.22	594.55	594.5	21.5	217	0.6	512.81	1.977	0.819	1.6	1.73	1.5	45.2	0.01	HDPE
z6co-1445	MH-720	MH-719	579.72	579.69	577.98	577.88	56.2	217	0.6	607.67	1.816	1.057	1.6	1.52	1.59	55.4	0.01	HDPE
CO-114	MH-568	MH-626	582.84	582.81	581.41	580.82	92.2	217	1.02	154.98	3.595	1.171	1.5	1.2	1.77	52.2	0.01	HDPE
CO-99	MH-1008	MH-993	604.78	606.11	603.77	603.74	17.9	217	0.6	578.18	1.861	0.978	1.5	0.8	2.16	55.5	0.01	HDPE
z6co-1989	MH-700	MH-720	579.74	579.72	578.12	577.98	81.7	217	0.6	563.98	1.885	0.941	1.5	1.4	1.52	51.6	0.01	HDPE
z6co-480	MH-698	MH-815	605.48	603.6	603.28	602.58	69.1	217	1.21	100	4.476	1.224	1.4	1.99	0.8	55.2	0.01	HDPE
CO-195	MH-418	MH-900	586.76	586.41	585.02	584.94	50.6	217	0.6	646.08	1.761	1.17	1.4	1.53	1.25	51.6	0.01	HDPE
z6co-883	MH-609	MH-611	579.1	578.76	577.41	577.29	80.1	217	0.6	679.26	1.717	1.283	1.4	1.48	1.26	63.7	0.01	HDPE

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-444	MH-642	MH-700	579.77	579.74	578.3	578.12	93.8	217	0.6	518.32	1.966	0.831	1.3	1.25	1.4	47	0.01	HDPE
CO-174	MH-948	MH-894	596.22	595.79	594.5	594.44	34.7	217	0.6	522.4	1.958	0.841	1.3	1.5	1.13	52.9	0.01	HDPE
z6co-490	MH-78	MH-581	583.21	583.07	581.71	581.63	49.9	217	0.6	571.75	1.872	0.961	1.3	1.28	1.22	51.2	0.01	HDPE
z6co-489	MH-250	MH-78	583.21	583.21	581.77	581.71	32.2	217	0.6	534.65	1.936	0.871	1.2	1.22	1.28	48.3	0.01	HDPE
z6co-491	MH-581	MH-393	583.07	582.99	581.63	581.54	49.7	217	0.6	592.44	1.839	1.015	1.2	1.22	1.23	53.6	0.01	HDPE
z6co-10	MH-393	MH-394	582.99	582.9	581.54	581.48	41.8	217	0.6	615.56	1.804	1.079	1.2	1.23	1.21	55.5	0.01	HDPE
z6co-1418	MH-611	MH-575	578.76	578.6	577.29	577.22	49.1	217	0.6	681.99	1.714	1.294	1.2	1.26	1.17	64.6	0.01	HDPE
CO-122	MH-394	MH-649	582.9	582.86	581.48	581.44	21.8	217	0.6	626.32	1.789	1.111	1.2	1.21	1.2	55.7	0.01	HDPE
CO-123	MH-649	MH-568	582.86	582.84	581.44	581.41	16.8	217	0.6	634.05	1.778	1.133	1.2	1.2	1.2	49.9	0.01	HDPE
CO-35	MH-707	MH-982	578.54	578.41	577.13	576.99	102.4	217	0.6	699.73	1.692	1.366	1.2	1.19	1.21	57.7	0.01	HDPE
CO-34	MH-576	MH-707	578.55	578.54	577.15	577.13	10.6	217	0.6	696.44	1.696	1.35	1.2	1.18	1.19	66.9	0.01	HDPE
z6co-410	MH-575	MH-576	578.6	578.55	577.22	577.15	47	217	0.6	687.73	1.707	1.315	1.2	1.17	1.18	65.9	0.01	HDPE
z6co-2445	MH-692	MH-582	576.83	576.21	575.23	575.07	85.6	217	0.6	542.46	1.922	0.89	1.1	1.38	0.91	43	0.01	HDPE
z6co-2209	MH-894	MH-942	595.79	595.58	594.44	594.25	122.1	217	0.6	654.64	1.749	1.198	1.1	1.13	1.11	52.5	0.01	HDPE
CO-70	MH-298	MH-335	575	575	573.85	573.79	31.5	217	0.6	584.78	1.851	0.996	1	0.94	0.99	46.2	0.01	HDPE
CO-276	MH-1068	MH-1036	585.53	584.56	584.19	583.54	65.1	217	1.41	100	4.476	2.137	1	1.12	0.8	54.5	0.01	HDPE
z6co-481	MH-815	MH-986	603.6	603.6	602.58	602.33	178.7	217	0.6	687.27	1.707	1.313	0.9	0.8	1.06	56.7	0.01	HDPE
z6co-482	MH-986	MH-987	603.6	602.21	602.33	601.19	116.4	217	1.24	102.78	4.415	1.386	0.9	1.06	0.8	43.3	0.01	HDPE
z6co-1851	MH-448	MH-298	575	575	573.91	573.85	39.2	217	0.6	583.78	1.853	0.993	0.9	0.87	0.94	51.5	0.01	HDPE
z6co-2446	MH-582	MH-199	576.21	575.84	575.07	574.82	54.5	217	0.84	217	3.038	0.902	0.9	0.91	0.8	37.9	0.01	HDPE
z6co-776	MH-476	MH-448	575	575	573.98	573.91	40.8	217	0.6	582.67	1.854	0.99	0.8	0.8	0.87	51.3	0.01	HDPE
CO-84	MH-486	MH-485	588.69	588.46	587.68	587.44	137.7	217	0.66	593.07	1.838	1.649	0.8	0.8	0.8	62.9	0.01	HDPE
z6co-567	MH-178	MH-231	584.57	585.12	580.24	580.19	46.1	271	0.56	1,000.00	2.56	1.78	4.4	4.06	4.65	49.8	0.01	HDPE
z6co-1637	MH-179	MH-178	584.28	584.57	580.26	580.24	25.1	271	0.56	1,000.00	2.56	1.749	3.9	3.75	4.06	58.6	0.01	HDPE
CO-76	MH-675	MH-947	575.05	575	571.08	571.05	33.2	271	0.6	994.64	2.567	2.52	3.7	3.7	3.68	59.7	0.01	HDPE
z6co-1696	MH-578	MH-675	575.05	575.05	571.13	571.08	53.3	271	0.6	993.95	2.568	2.515	3.7	3.64	3.7	72.2	0.01	HDPE
z6co-1695	MH-577	MH-578	575.1	575.05	571.19	571.13	53.3	271	0.6	994.12	2.568	2.507	3.6	3.64	3.64	75.6	0.01	HDPE
CO-142	MH-48	MH-577	575.11	575.1	571.22	571.19	28.8	271	0.6	993.28	2.569	2.494	3.6	3.62	3.64	76.7	0.01	HDPE
z6co-1638	MH-19	MH-179	583.92	584.28	580.29	580.26	31.1	271	0.56	1,000.00	2.56	1.733	3.5	3.35	3.75	59.1	0.01	HDPE
CO-143	MH-384	MH-48	575	575.11	571.26	571.22	44.8	271	0.6	990.99	2.572	2.465	3.5	3.47	3.62	76.9	0.01	HDPE
CO-48	MH-1011	MH-384	575	575	571.29	571.26	30.6	271	0.6	980.69	2.585	2.362	3.5	3.44	3.47	76.3	0.01	HDPE
CO-46	MH-537	MH-1011	575	575	571.3	571.29	10.7	271	0.6	974.87	2.593	2.324	3.4	3.42	3.44	75.6	0.01	HDPE
CO-73	MH-994	MH-537	575	575	571.33	571.3	23.9	271	0.6	970.7	2.598	2.292	3.4	3.4	3.42	74.8	0.01	HDPE
CO-72	MH-412	MH-994	575	575	571.36	571.33	27	271	0.6	926.81	2.659	2.06	3.4	3.37	3.4	72.6	0.01	HDPE
CO-77	MH-947	MH-39	575	574.15	571.05	570.81	31.2	271	1.31	133.62	7.003	2.53	3.4	3.68	3.06	45.4	0.01	HDPE
CO-57	MH-981	MH-412	575	575	571.37	571.36	7.4	271	0.6	919.47	2.67	2.028	3.4	3.36	3.37	70.6	0.01	HDPE
CO-56	MH-136	MH-981	575	575	571.4	571.37	30.2	271	0.6	914.25	2.677	2.006	3.3	3.33	3.36	68.7	0.01	HDPE
z6co-1276	MH-480	MH-136	575	575	571.45	571.4	41.1	271	0.6	756.77	2.943	1.463	3.3	3.28	3.33	61.5	0.01	HDPE
z6co-1639	MH-20	MH-19	583.76	583.92	580.31	580.29	13.6	271	0.56	1,000.00	2.56	1.727	3.3	3.18	3.35	59.2	0.01	HDPE
z6co-1275	MH-332	MH-480	575	575	571.51	571.45	44.8	271	0.6	754.56	2.947	1.457	3.2	3.22	3.28	52.8	0.01	HDPE
CO-81	MH-31	MH-32	595.8	595.7	593.49	593.43	52.8	271	0.6	994.23	2.567	2.509	2	2.04	2	76.9	0.01	HDPE
z6co-557	MH-302	MH-269	579.85	580.18	577.75	577.72	31.4	271	0.6	965.07	2.606	2.258	2	1.83	2.18	55.8	0.01	HDPE
CO-82	MH-32	MH-33	595.7	595.6	593.43	593.37	63.3	271	0.6	994.23	2.567	2.509	2	2	1.96	75.2	0.01	HDPE
CO-83	MH-33	MH-998	595.6	595.5	593.37	593.3	72.4	271	0.6	994.23	2.567	2.509	1.9	1.96	1.93	61.8	0.01	HDPE
CO-80	MH-30	MH-31	595.83	595.8	593.94	593.49	450.9	271	0.6	994.23	2.567	2.509	1.8	1.62	2.04	77.7	0.01	HDPE
CO-167	MH-927	MH-957	598.25	595.62	595.59	594.55	104.4	271	1.51	100	8.096	2.857	1.6	2.38	0.8	53.4	0.01	HDPE
CO-79	MH-941	MH-30	595.89	595.83	594.06	593.94	123.7	271	0.6	994.23	2.567	2.509	1.6	1.56	1.62	78.2	0.01	HDPE
z6co-1625	MH-870	MH-302	579.43	579.85	577.84	577.75	82	271	0.6	900.82	2.697	1.948	1.6	1.31	1.83	63.5	0.01	HDPE
z6co-2208	MH-942	MH-941	595.58	595.89	594.2	594.06	101	271	0.6	755.2	2.946	1.458	1.3	1.11	1.56	64.6	0.01	HDPE
CO-24	MH-1044	MH-1009	601.4	600.29	599.4	599.22	99.9	271	0.73	554.58	3.438	2.075	1.3	1.73	0.8	50.5	0.01	HDPE
CO-32	MH-982	MH-785	578.41	578.17	576.93	576.66	198.5	271	0.6	741.07	2.974	1.419	1.2	1.21	1.24	42.4	0.01	HDPE
CO-181	MH-766	MH-913	596.66	596.49	595.18	595.1	71.5	271	0.6	936.17	2.646	2.105	1.2	1.21	1.12	55.6	0.01	HDPE

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-121	MH-915	MH-766	596.56	596.66	595.31	595.18	115.4	271	0.6	873.92	2.739	1.845	1.1	0.98	1.21	62.1	0.01	HDPE
z6co-1089	MH-872	MH-870	579.02	579.43	577.95	577.84	82.1	271	0.6	759.18	2.938	1.47	1.1	0.8	1.31	56.1	0.01	HDPE
z6co-2274	MH-843	MH-532	597.88	598.15	596.81	596.66	151.8	271	0.55	1,000.00	2.56	1.622	1	0.8	1.22	48.2	0.01	HDPE
z6co-2195	MH-867	MH-590	599.78	598.64	598.36	597.57	79.1	271	1.44	100	8.096	2.413	1	1.15	0.8	42.8	0.01	HDPE
z6co-2264	MH-216	MH-884	595.88	595.33	594.47	594.26	28.4	271	1.31	133.95	6.995	2.506	1	1.14	0.8	45.2	0.01	HDPE
z6co-2263	MH-802	MH-216	595.61	595.88	594.54	594.47	66.5	271	0.6	989.02	2.574	2.446	1	0.8	1.14	60.9	0.01	HDPE
z6co-2262	MH-913	MH-802	596.49	595.61	595.1	594.54	130.1	271	1.04	230.91	5.328	2.197	1	1.12	0.8	59.2	0.01	HDPE
z6co-2245	MH-1009	MH-769	600.29	599.86	599.22	598.58	129.6	271	1.08	202.04	5.695	2.146	0.9	0.8	1.01	52	0.01	HDPE
z6co-2301	MH-769	MH-704	599.86	598.83	598.58	597.76	81.8	271	1.58	100	8.096	3.407	0.9	1.01	0.8	58.7	0.01	HDPE
CO-166	MH-590	MH-927	598.64	598.25	597.38	597.18	20.4	271	1.45	100	8.096	2.432	0.9	0.99	0.8	43	0.01	HDPE
z6co-2175	MH-914	MH-915	596.47	596.56	595.4	595.31	87.1	271	0.57	1,000.00	2.56	1.781	0.9	0.8	0.98	59.9	0.01	HDPE
z6co-2231	MH-774	MH-475	600.9	600.17	599.67	599.1	56.7	271	1.42	100	8.096	2.28	0.9	0.96	0.8	41.5	0.01	HDPE
CO-34	MH-619	MH-774	600.98	600.9	599.91	599.67	33	271	1.27	134.89	6.971	2.245	0.9	0.8	0.96	47	0.01	HDPE
z6co-2325	MH-203	MH-397	585.14	584.88	583.92	583.81	87	271	0.61	804.44	2.854	1.67	0.9	0.95	0.8	47.2	0.01	HDPE
CO-46	MH-475	MH-867	600.17	599.78	599.08	598.71	37	271	1.43	100	8.096	2.373	0.8	0.82	0.8	42.4	0.01	HDPE
z6co-2217	MH-957	MH-494	595.62	594.27	594.55	593.2	142.4	271	1.49	105.64	7.877	2.917	0.8	0.8	0.8	47.6	0.01	HDPE
z6co-2302	MH-704	MH-532	598.83	598.15	597.76	597.08	68.9	271	1.59	101.34	8.042	3.516	0.8	0.8	0.8	52.4	0.01	HDPE
z6co-2185	MH-618	MH-619	601.04	600.98	599.97	599.91	49.5	271	0.61	911.53	2.681	2.214	0.8	0.8	0.8	56.1	0.01	HDPE
z6co-374	MH-268	MH-267	577.23	577.16	576.16	576.09	29.4	271	0.9	443.59	3.844	3.842	0.8	0.8	0.8	69.7	0.01	HDPE
CO-31	MH-987	MH-8	602.21	602.1	601.14	601.03	58.5	271	0.74	535.77	3.498	2.068	0.8	0.8	0.8	50	0.01	HDPE
CO-32	MH-8	MH-9	602.1	601.5	601.03	600.43	173.9	271	0.94	290.07	4.753	2.068	0.8	0.8	0.8	45.2	0.01	HDPE
CO-33	MH-9	MH-618	601.5	601.04	600.43	599.97	63.2	271	1.23	136.86	6.92	2.068	0.8	0.8	0.8	55	0.01	HDPE
z6co-50	MH-72	MH-727	580.97	581.58	576.5	576.4	97.8	400	0.64	1,000.00	6.573	3.926	4.4	4.07	4.78	53.9	0.011	Concrete
z6co-520	MH-433	MH-72	580.74	580.97	576.54	576.5	38.6	400	0.64	1,000.00	6.573	3.816	3.9	3.81	4.07	54.5	0.011	Concrete
z6co-1053	MH-67	MH-433	580.5	580.74	576.58	576.54	42.9	400	0.64	1,000.00	6.573	3.806	3.7	3.52	3.81	54.2	0.011	Concrete
CO-144	MH-269	MH-67	580.18	580.5	576.62	576.58	42.8	400	0.64	1,000.00	7.23	2.894	3.3	3.15	3.52	51.3	0.01	Concrete
z6co-1698	MH-39	MH-40	574.15	574.13	570.69	570.67	14.6	400	0.62	1,000.00	7.23	2.591	3.1	3.06	3.05	40.9	0.01	Concrete
z6co-1699	MH-40	MH-307	574.13	574.1	570.67	570.64	31.9	400	0.62	1,000.00	7.23	2.594	3.1	3.05	3.06	40.9	0.01	Concrete
z6co-1700	MH-307	MH-68	574.1	574	570.64	570.6	38.4	400	0.62	1,000.00	7.23	2.599	3	3.06	3	41	0.01	Concrete
z6co-1701	MH-68	MH-69	574	573.98	570.6	570.58	17.1	400	0.62	1,000.00	7.23	2.604	3	3	3	41	0.01	Concrete
z6co-632	MH-69	MH-237	573.98	573.5	570.58	570.54	43.2	400	0.62	1,000.00	7.23	2.608	2.8	3	2.56	41.2	0.01	Concrete
z6co-1703	MH-237	MH-238	573.5	573.25	570.54	570.51	28	400	0.62	1,000.00	7.23	2.61	2.4	2.56	2.34	41.4	0.01	Concrete
z6co-153	MH-238	MH-301	573.25	573.1	570.51	570.48	31.7	400	0.62	1,000.00	7.23	2.613	2.3	2.34	2.22	42	0.01	Concrete
z6co-1705	MH-301	MH-315	573.1	573.05	570.48	570.44	40.9	400	0.62	1,000.00	7.23	2.619	2.2	2.22	2.21	43.7	0.01	Concrete
z6co-636	MH-315	MH-126	573.05	572.2	570.44	570.41	32.6	400	0.62	1,000.00	7.23	2.624	1.8	2.21	1.39	46.7	0.01	Concrete
CO-104	MH-201	MH-1075	571.95	571.95	570.14	569.69	445.7	400	0.65	1,000.00	6.573	4.039	1.6	1.41	1.86	55.2	0.011	Concrete
CO-86	MH-34	MH-930	580.56	575	577.75	573.8	395.3	400	2.17	100	20.786	16.637	1.6	2.41	0.8	73	0.011	Concrete
z6co-2305	MH-65	MH-998	597.49	595.5	594.85	594.3	54.8	400	1.63	100	20.786	5.347	1.5	2.24	0.8	39.2	0.011	Concrete
z6co-2306	MH-998	MH-1071	595.5	592.98	593.17	591.56	276.8	400	1.5	172.71	15.816	8.41	1.5	1.93	1.02	59.8	0.011	Concrete
CO-105	MH-74	MH-1033	572.05	572.04	570.23	570.22	18.7	400	0.62	1,000.00	6.573	3.478	1.4	1.42	1.42	53.8	0.011	Concrete
CO-109	MH-202	MH-201	571.99	571.95	570.17	570.14	26.3	400	0.65	1,000.00	6.573	4.02	1.4	1.42	1.41	55.8	0.011	Concrete
CO-106	MH-1033	MH-542	572.04	572	570.22	570.2	19	400	0.62	1,000.00	6.573	3.479	1.4	1.42	1.4	54.9	0.011	Concrete
CO-108	MH-542	MH-202	572	571.99	570.2	570.17	30.8	400	0.64	1,000.00	6.573	3.962	1.4	1.4	1.42	55.7	0.011	Concrete
CO-88	MH-874	MH-74	572.07	572.05	570.27	570.23	33.6	400	0.62	1,000.00	6.573	3.387	1.4	1.4	1.42	52.6	0.011	Concrete
CO-90	MH-353	MH-874	572.1	572.07	570.3	570.27	35.4	400	0.62	1,000.00	6.573	3.348	1.4	1.4	1.4	51.3	0.011	Concrete
CO-91	MH-276	MH-353	572.15	572.1	570.38	570.3	72.9	400	0.61	1,000.00	6.573	3.221	1.4	1.37	1.4	50	0.011	Concrete
z6co-1178	MH-126	MH-276	572.2	572.15	570.41	570.38	30.6	400	0.61	1,000.00	6.573	3.125	1.4	1.39	1.37	48.9	0.011	Concrete
CO-14	MH-5	MH-1010	581.27	581.28	579.79	579.77	23.5	400	0.62	1,000.00	6.573	3.44	1.1	1.08	1.11	41.6	0.011	Concrete
CO-15	MH-365	MH-5	581.24	581.27	579.89	579.79	98.4	400	0.6	1,000.00	6.573	2.989	1	0.95	1.08	46.6	0.011	Concrete
z6co-2303	MH-532	MH-64	598.15	597.57	596.53	596.37	65.2	400	0.96	409.92	10.266	5.176	1	1.22	0.8	56.6	0.011	Concrete
z6co-2357	MH-990	MH-943	599.94	598.39	598.37	597.19	117.6	400	1.95	100	20.786	10.498	1	1.17	0.8	63.6	0.011	Concrete
z6co-2268	MH-551	MH-479	595.48	595.19	594.09	593.85	41.4	400	1.21	170.96	17.487	2.924	1	0.99	0.95	39.4	0.01	Concrete

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Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-450	MH-1010	MH-1029	581.28	579.85	579.77	578.65	154.8	400	1.31	138.24	17.679	3.734	1	1.11	0.8	47.7	0.011	Concrete
CO-69	MH-479	MH-24	595.19	595.1	593.85	593.8	41.3	400	0.61	1,000.00	6.573	3.154	0.9	0.95	0.9	43.5	0.011	Concrete
z6co-1920	MH-217	MH-840	577.01	577.06	575.76	575.69	71.8	400	0.67	1,000.00	6.573	4.759	0.9	0.85	0.97	56.6	0.011	Concrete
z6co-2307	MH-1071	MH-1082	592.98	587.63	591.56	586.43	513.1	400	1.96	100	20.786	10.621	0.9	1.02	0.8	68.6	0.011	Concrete
CO-76	MH-884	MH-551	595.33	595.48	594.13	594.09	44.8	400	0.64	1,000.00	7.23	2.892	0.9	0.8	0.99	37.4	0.011	Concrete
z6co-847	MH-457	MH-840	577.08	577.06	575.88	575.69	111.8	400	0.79	566.93	8.73	3.876	0.9	0.8	0.97	49.5	0.011	Concrete
z6co-925	MH-366	MH-365	581.13	581.24	579.93	579.89	44.4	400	0.64	1,000.00	7.23	2.865	0.9	0.8	0.95	45.5	0.011	Concrete
CO-70	MH-24	MH-25	595.1	594.98	593.8	593.78	15.2	400	0.73	615.21	8.38	3.154	0.8	0.9	0.8	37.2	0.011	Concrete
z6co-2308	MH-1082	MH-1083	587.63	584.81	586.43	583.52	402.1	400	1.85	137.95	17.697	14.32	0.8	0.8	0.89	76.6	0.011	Concrete
CO-85	MH-1083	MH-34	584.81	580.56	583.52	579.36	416.1	400	2.17	100	20.786	16.637	0.8	0.89	0.8	73	0.011	Concrete
CO-9	MH-2	MH-999	579.75	579.61	578.49	578.39	103.3	400	0.66	1,000.00	6.573	4.376	0.8	0.86	0.82	48.9	0.011	Concrete
z6co-370	MH-24	MH-217	577	577.01	575.79	575.76	26.1	400	0.67	1,000.00	6.573	4.738	0.8	0.81	0.85	60.4	0.011	Concrete
CO-8	MH-1029	MH-2	579.85	579.75	578.65	578.49	155.5	400	0.66	1,000.00	6.573	4.376	0.8	0.8	0.86	58.3	0.011	Concrete
z6co-1378	MH-23	MH-24	577	577	575.8	575.79	14.7	400	0.67	1,000.00	6.573	4.728	0.8	0.8	0.81	60.9	0.011	Concrete
z6co-2356	MH-1021	MH-990	601.53	599.94	600.33	598.74	170	400	1.87	106.45	20.146	9.722	0.8	0.8	0.8	54.4	0.011	Concrete
z6co-2355	MH-1003	MH-1021	602.57	601.53	601.37	600.33	146.8	400	1.65	142.44	17.416	9.053	0.8	0.8	0.8	59.5	0.011	Concrete
z6co-2354	MH-170	MH-1003	603.58	602.57	602.38	601.37	126.7	400	1.69	125.56	18.55	8.343	0.8	0.8	0.8	57.1	0.011	Concrete
z6co-2358	MH-943	MH-838	598.39	597.69	597.19	596.49	101.2	400	1.71	144.11	17.315	10.883	0.8	0.8	0.8	64.6	0.011	Concrete
z6co-2351	MH-219	MH-669	604.88	604.24	603.68	603.04	72.8	400	1.71	114.93	19.389	7.693	0.8	0.8	0.8	53.9	0.011	Concrete
z6co-2359	MH-838	MH-689	597.69	597.1	596.49	595.9	72.6	400	1.83	122.74	18.761	11.137	0.8	0.8	0.8	65.4	0.011	Concrete
z6co-2363	MH-241	MH-569	596.05	595.47	594.85	594.27	71.6	400	1.85	123.58	18.698	11.7	0.8	0.8	0.8	66.7	0.011	Concrete
z6co-2347	MH-738	MH-243	605.74	605.45	604.54	604.25	58.8	400	1.31	205.15	14.512	6.202	0.8	0.8	0.8	48.9	0.011	Concrete
z6co-2360	MH-689	MH-688	597.1	596.73	595.9	595.53	54	400	1.72	146.63	17.165	11.401	0.8	0.8	0.8	66	0.011	Concrete
z6co-2361	MH-688	MH-240	596.73	596.31	595.53	595.11	54	400	1.82	128.44	18.341	11.526	0.8	0.8	0.8	66.2	0.011	Concrete
z6co-2352	MH-669	MH-169	604.24	603.79	603.04	602.59	52.6	400	1.71	116.06	19.294	7.866	0.8	0.8	0.8	54.4	0.011	Concrete
z6co-2364	MH-569	MH-165	595.47	595.01	594.27	593.81	46.5	400	1.99	101.63	20.618	11.735	0.8	0.8	0.8	60	0.011	Concrete
z6co-1382	MH-267	MH-457	577.16	577.08	575.96	575.88	39.7	400	0.83	500.93	9.287	3.855	0.8	0.8	0.8	45.2	0.011	Concrete
z6co-2349	MH-244	MH-218	605.27	605.05	604.07	603.85	34.2	400	1.48	156.63	16.609	6.819	0.8	0.8	0.8	50.5	0.011	Concrete
z6co-2348	MH-243	MH-244	605.45	605.27	604.25	604.07	28.4	400	1.47	156.27	16.628	6.709	0.8	0.8	0.8	50.1	0.011	Concrete
z6co-2362	MH-240	MH-241	596.31	596.05	595.11	594.85	28.2	400	1.94	108.11	19.991	11.579	0.8	0.8	0.8	66.5	0.011	Concrete
z6co-1917	MH-103	MH-23	577.05	577	575.85	575.8	26.6	400	0.85	532.43	9.008	4.722	0.8	0.8	0.8	58	0.011	Concrete
z6co-2350	MH-218	MH-219	605.05	604.88	603.85	603.68	27	400	1.48	158.11	16.53	6.918	0.8	0.8	0.8	52.1	0.011	Concrete
z6co-2353	MH-169	MH-170	603.79	603.58	602.59	602.38	24.5	400	1.72	115.34	19.354	7.978	0.8	0.8	0.8	55.3	0.011	Concrete
z6co-1916	MH-102	MH-103	577.1	577.05	575.9	575.85	19.9	400	0.92	436.88	9.945	4.716	0.8	0.8	0.8	52.6	0.011	Concrete
z6co-2304	MH-64	MH-65	597.57	597.49	596.37	596.29	83.7	400	0.7	963.6	6.696	5.305	0.8	0.8	0.8	53.9	0.011	Concrete
CO-54	MH-16	MH-494	594.5	594.27	593.3	593.07	69.8	400	0.95	307.33	11.857	3.26	0.8	0.8	0.8	34.8	0.011	Concrete
CO-71	MH-25	MH-26	594.98	594.65	593.78	593.45	38.2	400	1.33	115.45	19.345	3.154	0.8	0.8	0.8	34	0.011	Concrete
CO-72	MH-26	MH-16	594.65	594.5	593.45	593.3	43.6	400	0.96	290.58	12.194	3.154	0.8	0.8	0.8	34.8	0.011	Concrete
z6co-2218	MH-494	MH-1012	594.27	593.98	591.47	591.33	139.9	500	0.74	1,000.00	11.918	6.761	2.2	2.3	2.15	51.9	0.011	Concrete
z6co-825	MH-865	MH-826	577.55	577.67	575	574.92	80.3	500	0.79	1,000.00	11.918	9.51	2.1	2.05	2.24	62.3	0.011	Concrete
z6co-2078	MH-45	MH-155	590.14	589.91	587.57	587.55	23.2	500	0.81	1,000.00	11.918	10.614	2	2.07	1.86	72	0.011	Concrete
CO-5	MH-799	MH-865	577.38	577.55	575.06	575	53.7	500	0.79	1,000.00	11.918	9.469	1.9	1.82	2.05	64.8	0.011	Concrete
CO-50	MH-1012	MH-14	593.98	593.5	591.33	591.29	38.3	500	0.75	1,000.00	11.918	7.077	1.9	2.15	1.71	46	0.011	Concrete
CO-66	MH-12	MH-2300	593.48	593.33	591.07	591.03	46.4	500	0.75	1,000.00	11.918	7.449	1.9	1.91	1.8	51.7	0.011	Concrete
CO-188	MH-819	MH-1078	592.88	592.51	590.6	590.09	128.9	500	1.28	253.95	23.65	7.905	1.8	1.78	1.91	52.1	0.011	Concrete
CO-49	MH-14	MH-12	593.5	593.48	591.29	591.07	82.6	500	1.08	371.59	19.551	7.077	1.8	1.71	1.91	47.5	0.011	Concrete
CO-67	MH-2300	MH-1079	593.33	593.26	591.03	591.01	17.6	500	0.75	1,000.00	11.918	7.449	1.8	1.8	1.75	45	0.011	Concrete
CO-4	MH-793	MH-799	577.3	577.38	575.08	575.06	27	500	0.79	1,000.00	11.918	9.416	1.8	1.72	1.82	65.3	0.011	Concrete
CO-189	MH-1079	MH-819	593.26	592.88	591.01	590.6	127.2	500	1.17	311.36	21.358	7.538	1.8	1.75	1.78	40.6	0.011	Concrete
CO-65	MH-1078	MH-1063	592.51	591.99	590.09	589.99	99.5	500	0.78	1,000.00	11.918	8.867	1.7	1.91	1.5	64	0.011	Concrete
CO-3	MH-510	MH-793	577.2	577.3	575.12	575.08	35.4	500	0.79	1,000.00	11.918	9.369	1.6	1.58	1.72	65.5	0.011	Concrete
z6co-465	MH-155	MH-919	589.91	589.36	587.55	587.44	103.4	500	0.82	1,000.00	11.918	11.495	1.6	1.86	1.42	60.7	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
CO-2	MH-525	MH-510	577.07	577.2	575.17	575.12	57.1	500	0.79	1,000.00	11.918	9.343	1.5	1.39	1.58	65.5	0.011	Concrete
CO-64	MH-1063	MH-22	591.99	591.8	589.99	589.83	159.6	500	0.79	1,000.00	11.918	9.172	1.5	1.5	1.47	63	0.011	Concrete
CO-91	MH-917	MH-421	577.18	577.17	575.35	575.33	15.3	500	0.79	1,000.00	11.918	8.937	1.3	1.33	1.34	64.4	0.011	Concrete
CO-1	MH-497	MH-525	577	577.07	575.22	575.17	44.8	500	0.79	1,000.00	11.918	9.215	1.3	1.28	1.39	65.4	0.011	Concrete
z6co-386	MH-421	MH-420	577.17	577.1	575.33	575.31	25.9	500	0.79	1,000.00	11.918	8.985	1.3	1.34	1.29	64.6	0.011	Concrete
z6co-860	MH-420	MH-498	577.1	577.01	575.31	575.26	44.9	500	0.79	1,000.00	11.918	9.048	1.3	1.29	1.25	64.9	0.011	Concrete
z6co-859	MH-498	MH-497	577.01	577	575.26	575.22	41.7	500	0.79	1,000.00	11.918	9.13	1.3	1.25	1.28	65.2	0.011	Concrete
z6co-1375	MH-916	MH-917	577	577.18	575.44	575.35	92.6	500	0.78	1,000.00	11.918	8.694	1.2	1.06	1.33	63.7	0.011	Concrete
CO-63	MH-22	MH-21	591.8	591	589.83	589.7	91.8	500	0.93	691.67	14.33	10.223	1.1	1.47	0.8	62.4	0.011	Concrete
z6co-840	MH-585	MH-916	577.14	577	575.55	575.44	110.3	500	0.78	1,000.00	11.918	8.677	1.1	1.09	1.06	62.8	0.011	Concrete
CO-17	MH-840	MH-585	577.06	577.14	575.59	575.55	37	500	0.78	1,000.00	11.918	8.646	1	0.97	1.09	62.5	0.011	Concrete
CO-61	MH-20	MH-19	590.8	590.1	589.4	588.8	60.2	500	1.92	100	37.687	10.223	0.8	0.9	0.8	55	0.011	Concrete
CO-62	MH-21	MH-20	591	590.8	589.7	589.4	222.9	500	0.91	743.83	13.818	10.223	0.8	0.8	0.9	54.7	0.011	Concrete
CO-60	MH-19	MH-45	590.1	590.14	588.8	588.75	52.7	500	0.8	1,000.00	11.918	10.223	0.8	0.8	0.89	55	0.011	Concrete
z6co-2365	MH-165	MH-166	595.01	594.95	593.71	593.65	24.3	500	1.2	410.59	18.599	12.806	0.8	0.8	0.8	55.8	0.011	Concrete
z6co-932	MH-900	MH-899	586.41	586.74	581	580.91	88	600	0.91	1,000.00	19.38	17.051	5	4.81	5.23	72.2	0.011	Concrete
z6co-2091	MH-899	MH-977	586.74	585.67	580.91	580.76	152.4	600	0.91	1,000.00	19.38	17.06	4.8	5.23	4.31	73.4	0.011	Concrete
CO-15	MH-964	MH-231	584.51	585.12	580.25	579.86	94	600	1.62	245.29	39.13	19.307	4.2	3.67	4.65	53.6	0.011	Concrete
z6co-2092	MH-977	MH-397	585.67	584.88	580.76	580.65	110.9	600	0.91	1,000.00	19.38	17.111	4	4.31	3.64	75.6	0.011	Concrete
z6co-2326	MH-397	MH-398	584.88	584.84	580.65	580.61	37.3	600	0.92	1,000.00	19.38	18.818	3.6	3.64	3.63	76.9	0.011	Concrete
CO-240	MH-398	MH-429	584.84	584.83	580.61	580.6	6.5	600	0.92	1,000.00	19.38	18.831	3.6	3.63	3.63	76.8	0.011	Concrete
CO-241	MH-429	MH-716	584.83	584.78	580.6	580.55	49.4	600	0.92	1,000.00	19.38	18.845	3.6	3.63	3.62	76.6	0.011	Concrete
CO-13	MH-929	MH-964	584.43	584.51	580.26	580.25	12.4	600	0.92	1,000.00	19.38	19.187	3.6	3.57	3.67	56.1	0.011	Concrete
CO-12	MH-966	MH-929	584.4	584.43	580.31	580.26	50.6	600	0.92	1,000.00	19.38	19.162	3.5	3.49	3.57	65.2	0.011	Concrete
CO-11	MH-928	MH-966	584.38	584.4	580.35	580.31	44.5	600	0.92	1,000.00	19.38	18.964	3.5	3.43	3.49	70.6	0.011	Concrete
z6co-2328	MH-716	MH-933	584.78	584.04	580.55	580.45	102.2	600	0.92	1,000.00	19.38	18.868	3.3	3.62	2.99	75.7	0.011	Concrete
z6co-459	MH-763	MH-900	585.9	586.41	582.4	582.27	131.9	600	0.9	1,000.00	19.38	15.324	3.2	2.9	3.54	54.5	0.011	Concrete
z6co-2329	MH-933	MH-928	584.04	584.38	580.45	580.35	96.8	600	0.92	1,000.00	19.38	18.878	3.2	2.99	3.43	73.5	0.011	Concrete
z6co-936	MH-918	MH-723	589.3	588.36	585.3	585.16	140.4	600	0.87	1,000.00	19.38	13.572	3	3.4	2.6	60.5	0.011	Concrete
z6co-460	MH-764	MH-763	585.87	585.9	582.46	582.4	53.4	600	0.89	1,000.00	19.38	14.983	2.9	2.81	2.9	64.1	0.011	Concrete
z6co-935	MH-723	MH-980	588.36	587.54	585.16	585.04	112.7	600	0.88	1,000.00	19.38	14.135	2.2	2.6	1.89	52.3	0.011	Concrete
z6co-2394	MH-293	MH-294	590.57	590.66	588.24	588.21	31.3	600	0.91	1,000.00	19.38	16.941	1.8	1.73	1.85	67.3	0.011	Concrete
z6co-464	MH-919	MH-918	589.36	589.3	587.34	587.25	92.7	600	0.85	1,000.00	19.38	12.047	1.4	1.42	1.45	47.2	0.011	Concrete
z6co-2395	MH-294	MH-869	590.66	589.72	588.21	588.13	81.7	600	0.92	1,000.00	19.38	17.36	1.4	1.85	0.99	59.2	0.011	Concrete
z6co-2390	MH-149	MH-150	591.42	591.41	589.43	589.41	22.8	600	0.91	1,000.00	19.38	16.439	1.4	1.39	1.4	52.9	0.011	Concrete
z6co-2380	MH-492	MH-149	591.43	591.42	589.47	589.43	42.8	600	0.9	1,000.00	19.38	15.276	1.4	1.36	1.39	60.3	0.011	Concrete
z6co-1466	MH-980	MH-764	587.54	585.87	585.04	584.47	149.2	600	1.48	258.78	38.096	14.71	1.3	1.89	0.8	43.4	0.011	Concrete
z6co-2393	MH-627	MH-293	589.69	590.57	588.29	588.24	50.1	600	0.91	1,000.00	19.38	16.626	1.3	0.8	1.73	68.3	0.011	Concrete
z6co-2391	MH-150	MH-823	591.41	590.62	589.41	589.02	69.8	600	1.76	177.62	45.983	16.511	1.2	1.4	1	47.1	0.011	Concrete
z6co-2373	MH-864	MH-856	594.07	593.48	592.02	591.94	79.3	600	0.89	1,000.00	19.38	14.779	1.2	1.45	0.94	52.7	0.011	Concrete
z6co-2379	MH-330	MH-492	591.06	591.43	589.52	589.47	41.5	600	0.9	1,000.00	19.38	15.268	1.1	0.94	1.36	62.6	0.011	Concrete
z6co-2372	MH-1017	MH-864	593.61	594.07	592.21	592.02	192.1	600	0.88	1,000.00	19.38	14.337	1.1	0.8	1.45	61.7	0.011	Concrete
z6co-2370	MH-829	MH-830	594.13	594.05	592.52	592.45	71.1	600	0.88	1,000.00	19.38	14.124	1	1.01	1	55.8	0.011	Concrete
z6co-2377	MH-810	MH-329	591.95	590.95	590.23	589.55	67.6	600	2.11	100	61.283	15.105	1	1.13	0.8	54.5	0.011	Concrete
z6co-2369	MH-490	MH-829	594.03	594.13	592.6	592.52	76.9	600	0.88	1,000.00	19.38	14.037	0.9	0.83	1.01	60.1	0.011	Concrete
z6co-2392	MH-823	MH-627	590.62	589.69	589.02	588.29	72.3	600	2.17	100	61.283	16.592	0.9	1	0.8	57.9	0.011	Concrete
z6co-2371	MH-830	MH-1017	594.05	593.61	592.45	592.21	137.2	600	1.1	568.94	25.693	14.181	0.9	1	0.8	57.5	0.011	Concrete
z6co-2396	MH-869	MH-285	589.72	589.22	588.13	587.82	111.7	600	1.37	358.01	32.389	17.439	0.9	0.99	0.8	50.2	0.011	Concrete
z6co-2378	MH-329	MH-330	590.95	591.06	589.55	589.52	33.6	600	0.89	1,000.00	19.38	15.245	0.9	0.8	0.94	63.7	0.011	Concrete
z6co-2374	MH-856	MH-557	593.48	592.79	591.94	591.39	77.4	600	1.86	140.35	51.729	14.978	0.9	0.94	0.8	44.7	0.011	Concrete
z6co-2367	MH-983	MH-489	594.92	594.04	593.43	592.64	171	600	1.54	216.01	41.697	13.349	0.8	0.88	0.8	51.7	0.011	Concrete
z6co-2366	MH-166	MH-983	594.95	594.92	593.55	593.43	115.1	600	0.87	1,000.00	19.38	13.089	0.8	0.8	0.88	49.9	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-2404	MH-1004	MH-972	587.85	587.78	586.45	586.33	127.1	600	0.92	1,000.00	19.38	19.121	0.8	0.8	0.85	65.5	0.011	Concrete
z6co-2405	MH-972	MH-939	587.78	587.45	586.33	586.05	110.3	600	1.35	404.01	30.489	19.662	0.8	0.85	0.8	55	0.011	Concrete
z6co-2368	MH-489	MH-490	594.04	594.03	592.64	592.6	41.4	600	0.88	1,000.00	19.38	13.883	0.8	0.8	0.83	61.1	0.011	Concrete
z6co-2403	MH-579	MH-1004	588.32	587.85	586.92	586.45	204.4	600	1.29	438.19	29.276	18.757	0.8	0.8	0.8	65.4	0.011	Concrete
z6co-2409	MH-876	MH-1027	585.91	585.08	584.51	583.68	154.5	600	1.85	186.22	44.908	21.552	0.8	0.8	0.8	56.7	0.011	Concrete
z6co-2398	MH-286	MH-209	589.03	588.91	587.63	587.51	100.7	600	0.99	828.96	21.285	17.806	0.8	0.8	0.8	57.8	0.011	Concrete
z6co-2406	MH-939	MH-888	587.45	586.89	586.05	585.49	99.4	600	1.86	176.84	46.084	20.333	0.8	0.8	0.8	52.6	0.011	Concrete
z6co-2407	MH-888	MH-875	586.89	586.34	585.49	584.94	85.4	600	1.96	153.62	49.444	20.508	0.8	0.8	0.8	52.8	0.011	Concrete
z6co-2408	MH-875	MH-876	586.34	585.91	584.94	584.51	82.7	600	1.81	191.39	44.298	20.644	0.8	0.8	0.8	53.5	0.011	Concrete
z6co-2376	MH-558	MH-810	592.49	591.95	591.09	590.55	69	600	1.92	129.15	53.927	15.075	0.8	0.8	0.8	40.3	0.011	Concrete
z6co-2400	MH-210	MH-106	588.78	588.53	587.38	587.13	57.1	600	1.65	225.95	40.77	18.136	0.8	0.8	0.8	53.2	0.011	Concrete
z6co-2402	MH-107	MH-579	588.49	588.32	587.09	586.92	47.2	600	1.52	286.58	36.201	18.654	0.8	0.8	0.8	53.8	0.011	Concrete
z6co-2375	MH-557	MH-558	592.79	592.49	591.39	591.09	45.7	600	1.82	150.51	49.953	15.038	0.8	0.8	0.8	44.8	0.011	Concrete
z6co-2397	MH-285	MH-286	589.22	589.03	587.82	587.63	31.1	600	1.82	169.73	47.039	17.708	0.8	0.8	0.8	57.5	0.011	Concrete
z6co-2399	MH-209	MH-210	588.91	588.78	587.51	587.38	26.7	600	1.73	198.04	43.547	18.098	0.8	0.8	0.8	49.4	0.011	Concrete
z6co-2401	MH-106	MH-107	588.53	588.49	587.13	587.09	20.1	600	1.2	518.23	26.92	18.169	0.8	0.8	0.8	53.6	0.011	Concrete
z6co-2332	MH-879	MH-732	585.23	585.67	579.75	579.66	83.2	700	0.98	1,000.00	29.233	21.252	5	4.78	5.31	62.5	0.011	Concrete
z6co-2333	MH-732	MH-507	585.67	584.73	579.66	579.61	58	700	0.98	1,000.00	29.233	21.411	4.9	5.31	4.43	62.6	0.011	Concrete
CO-16	MH-231	MH-879	585.12	585.23	579.76	579.75	16.6	700	0.98	1,000.00	29.233	21.179	4.7	4.65	4.78	62.4	0.011	Concrete
CO-119	MH-727	MH-968	581.58	581.06	576.1	576.05	50.8	700	1.02	1,000.00	29.233	27.088	4.5	4.78	4.32	73	0.011	Concrete
z6co-2337	MH-968	MH-955	581.06	580.56	576.05	575.92	132	700	1.02	1,000.00	29.233	27.191	4.1	4.32	3.94	71.2	0.011	Concrete
z6co-2334	MH-507	MH-508	584.73	584.09	579.61	579.56	42.3	700	0.98	1,000.00	29.233	21.482	4.1	4.43	3.83	62.6	0.011	Concrete
z6co-2338	MH-955	MH-956	580.56	580.03	575.92	575.81	103.9	700	1.02	1,000.00	29.233	27.693	3.7	3.94	3.52	61	0.011	Concrete
CO-116	MH-508	MH-811	584.09	582.94	579.56	579.48	81.2	700	0.98	1,000.00	29.233	21.593	3.3	3.83	2.76	62.3	0.011	Concrete
z6co-2339	MH-956	MH-930	580.03	575	575.81	572.46	512.5	700	2.16	152.66	74.817	29.705	2.7	3.52	1.84	59.8	0.011	Concrete
CO-117	MH-811	MH-967	582.94	582.33	579.48	579.44	42.8	700	0.99	1,000.00	29.233	22.962	2.5	2.76	2.19	61	0.011	Concrete
CO-118	MH-967	MH-727	582.33	581.58	579.44	579.38	56.1	700	0.99	1,000.00	29.233	23.065	1.8	2.19	1.49	52.8	0.011	Concrete
z6co-2340	MH-930	MH-931	575	573	572.46	571.5	95.6	700	2.86	100	92.442	48.378	1.3	1.84	0.8	59	0.011	Concrete
z6co-2411	MH-1042	MH-1072	584.99	584.28	583.4	582.78	379.1	700	1.22	602.41	37.664	24.237	0.8	0.89	0.8	52.6	0.011	Concrete
z6co-2410	MH-1027	MH-1042	585.08	584.99	583.58	583.4	171.2	700	1	1,000.00	29.233	23.418	0.8	0.8	0.89	61.3	0.011	Concrete
z6co-2414	MH-1016	MH-999	581.66	579.61	580.16	578.09	228.8	700	2.33	110.22	88.05	25.413	0.8	0.8	0.82	50.3	0.011	Concrete
z6co-2415	MH-999	MH-1000	579.61	578.6	578.09	577.1	123.8	700	2.32	125.49	82.522	29.898	0.8	0.82	0.8	52.5	0.011	Concrete
z6co-2412	MH-1072	MH-1015	584.28	582.31	582.78	580.81	254.7	700	2.18	129.55	81.219	24.893	0.8	0.8	0.8	47.8	0.011	Concrete
z6co-2416	MH-1000	MH-1028	578.6	577.81	577.1	576.31	157.5	700	1.96	198.63	65.591	30.111	0.8	0.8	0.8	58	0.011	Concrete
z6co-2417	MH-1028	MH-847	577.81	577.51	576.31	576.01	154.6	700	1.36	519.79	40.547	30.262	0.8	0.8	0.8	58.1	0.011	Concrete
z6co-2413	MH-1015	MH-1016	582.31	581.66	580.81	580.16	137	700	1.83	212.29	63.445	25.278	0.8	0.8	0.8	48.1	0.011	Concrete
z6co-2429	MH-784	MH-785	578.03	578.17	574.43	574.36	63.7	800	1.12	1,000.00	41.736	40.97	2.9	2.8	3.01	63.5	0.011	Concrete
z6co-2428	MH-844	MH-784	577.91	578.03	574.5	574.43	71.1	800	1.12	1,000.00	41.736	40.942	2.7	2.61	2.8	70.4	0.011	Concrete
z6co-2427	MH-826	MH-844	577.67	577.91	574.62	574.5	122.4	800	1.12	1,000.00	41.736	40.837	2.4	2.24	2.61	73.7	0.011	Concrete
z6co-2426	MH-871	MH-826	577.52	577.67	575.1	574.62	78.3	800	2.12	163.32	103.275	31.203	1.9	1.62	2.24	60.1	0.011	Concrete
z6co-2425	MH-408	MH-871	577.48	577.52	575.19	575.1	89.2	800	1.07	1,000.00	41.736	31.112	1.6	1.49	1.62	52.3	0.011	Concrete
z6co-2421	MH-695	MH-696	577.72	577.7	575.42	575.36	54.6	800	1.07	1,000.00	41.736	31.08	1.5	1.51	1.54	62.7	0.011	Concrete
CO-18	MH-696	MH-161	577.7	577.57	575.36	575.3	67.2	800	1.07	1,000.00	41.736	31.087	1.5	1.54	1.48	62.2	0.011	Concrete
z6co-2424	MH-407	MH-408	577.48	577.48	575.23	575.19	41.9	800	1.07	1,000.00	41.736	31.094	1.5	1.45	1.49	60.2	0.011	Concrete
CO-19	MH-161	MH-521	577.57	577.53	575.3	575.28	20.1	800	1.07	1,000.00	41.736	31.089	1.5	1.48	1.46	61.8	0.011	Concrete
z6co-2423	MH-521	MH-407	577.53	577.48	575.28	575.23	42.8	800	1.07	1,000.00	41.736	31.092	1.5	1.46	1.45	61.2	0.011	Concrete
z6co-2420	MH-635	MH-695	577.52	577.72	575.53	575.42	116.6	800	1.07	1,000.00	41.736	31.011	1.3	1.19	1.51	62.9	0.011	Concrete
z6co-2419	MH-634	MH-635	577.49	577.52	575.58	575.53	50.4	800	1.07	1,000.00	41.736	30.989	1.1	1.11	1.19	63.1	0.011	Concrete
z6co-2418	MH-847	MH-634	577.51	577.49	575.91	575.58	76	800	1.85	230.67	86.899	30.293	1	0.8	1.11	53.7	0.011	Concrete
z6co-2430	MH-785	MH-1019	578.17	578.44	574.26	574.12	143.8	900	1.16	1,000.00	57.137	42.438	3.2	3.01	3.42	63.1	0.011	Concrete
z6co-2431	MH-1019	MH-1057	578.44	577.12	574.12	573.91	209.8	900	1.16	1,000.00	57.137	42.523	2.9	3.42	2.31	62.9	0.011	Concrete
z6co-2437	MH-1075	MH-1084	571.95	572	569.19	568.02	1,173.90	900	1.21	1,000.00	57.137	56.973	2.5	1.86	3.08	66.3	0.011	Concrete

PIPE REPORT ZONE 6

Label	Start Node	Stop Node	Elevation Ground (Start) (m)	Elevation Ground (Stop) (m)	Invert (Start) (m)	Invert (Stop) (m)	Length (Scaled) (m)	Diameter (mm)	Velocity (m/s)	Slope (Calculated) (1/S)	Capacity (Design) (MLD)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)	Manning's n	Material
z6co-2432	MH-1057	MH-1069	577.12	575.65	573.91	573.66	248.6	900	1.16	1,000.00	57.137	42.7	1.7	2.31	1.09	54.3	0.011	Concrete
CO-99	MH-938	MH-38	574	573.19	571.08	570.91	174.3	900	1.19	1,000.00	57.137	49.676	1.7	2.02	1.38	64.7	0.011	Concrete
z6co-2436	MH-1059	MH-1075	573	571.95	570.87	569.19	271.4	900	2.4	162.01	141.954	50.021	1.5	1.23	1.86	64.6	0.011	Concrete
z6co-2342	MH-1018	MH-996	574	573	571.16	570.97	190.4	900	1.2	1,000.00	57.137	50.616	1.5	1.94	1.13	59.6	0.011	Concrete
z6co-2341	MH-931	MH-1018	573	574	571.3	571.16	142.2	900	1.19	1,000.00	57.137	49.251	1.4	0.8	1.94	69.2	0.011	Concrete
CO-100	MH-38	MH-1059	573.19	573	570.91	570.87	40.3	900	1.19	1,000.00	57.137	49.846	1.3	1.38	1.23	55.3	0.011	Concrete
z6co-2345	MH-1076	MH-1081	572	572	570.02	569.63	396.3	900	1.21	1,000.00	57.137	53.902	1.3	1.08	1.47	67.3	0.011	Concrete
CO-96	MH-1081	OF-1	572	571.5	569.63	569.61	10.7	900	1.21	1,000.00	57.137	56.498	1.2	1.47	0.99	56.4	0.011	Concrete
z6co-2343	MH-996	MH-997	573	572	570.97	570.3	123.2	900	2.31	184.57	132.995	52.007	1	1.13	0.8	62.6	0.011	Concrete
z6co-2434	MH-937	MH-938	573.81	574	572.11	572.01	98.8	900	1.18	1,000.00	57.137	46.358	0.9	0.8	1.09	55	0.011	Concrete
z6co-2433	MH-1069	MH-937	575.65	573.81	573.66	572.11	244.6	900	2.33	157.2	144.109	43.46	0.9	1.09	0.8	54.2	0.011	Concrete
z6co-2344	MH-997	MH-1076	572	572	570.3	570.02	278.3	900	1.21	1,000.00	57.137	53.226	0.9	0.8	1.08	74.6	0.011	Concrete
CO-98	MH-1084	OF-2	572	571.5	567.92	567.9	16.5	1,000.00	1.25	1,000.00	75.673	58.514	2.8	3.08	2.6	50.5	0.011	Concrete

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-1075	571.95	569.69	569.19	(N/A)	569.19	56.973	0.72
MH-201	571.95	570.14	(N/A)	(N/A)	570.14	4.039	0.22
MH-202	571.99	571.04	570.17	(N/A)	570.17	4.02	0.22
MH-997	572	570.3	(N/A)	(N/A)	570.3	53.226	0.67
MH-467	572	571.05	(N/A)	(N/A)	571.05	0.457	0.07
MH-593	572	(N/A)	(N/A)	(N/A)	571.05	0.003	0.01
MH-1084	572	568.02	(N/A)	(N/A)	567.92	58.514	0.54
MH-1081	572	569.63	(N/A)	(N/A)	569.63	56.498	0.54
MH-542	572	571.05	570.9	570.2	570.2	3.962	0.22
MH-1076	572	570.02	(N/A)	(N/A)	570.02	53.902	0.67
MH-1033	572.04	570.22	(N/A)	(N/A)	570.22	3.479	0.22
MH-74	572.05	570.23	571.1	(N/A)	570.23	3.478	0.21
MH-874	572.07	570.27	571.12	(N/A)	570.27	3.387	0.21
MH-353	572.1	570.3	571.03	(N/A)	570.3	3.348	0.2
MH-276	572.15	570.38	571.2	(N/A)	570.38	3.221	0.2
MH-126	572.2	570.41	571.25	(N/A)	570.41	3.125	0.19
MH-127	572.25	571.29	571.29	(N/A)	571.29	0.499	0.09
MH-295	572.25	(N/A)	(N/A)	(N/A)	571.2	0.026	0.02
MH-352	572.35	571.4	(N/A)	(N/A)	571.4	0.121	0.03
MH-573	572.35	571.34	(N/A)	(N/A)	571.34	0.479	0.11
MH-400	572.35	571.4	(N/A)	(N/A)	571.4	0.092	0.03
MH-586	572.35	571.4	(N/A)	(N/A)	571.4	0.016	0.02
MH-73	572.35	571.3	(N/A)	(N/A)	571.3	0.089	0.03
MH-960	572.42	(N/A)	(N/A)	(N/A)	571.45	0.471	0.11
MH-399	572.45	(N/A)	(N/A)	(N/A)	571.5	0.087	0.03
MH-274	572.45	571.5	(N/A)	(N/A)	571.5	0.087	0.03
MH-613	572.46	(N/A)	(N/A)	(N/A)	571.51	0.01	0.01
MH-873	572.5	(N/A)	(N/A)	(N/A)	571.55	0.035	0.02
MH-466	572.5	(N/A)	(N/A)	(N/A)	571.45	0.444	0.07
MH-381	572.5	(N/A)	(N/A)	(N/A)	571.55	0.084	0.04
MH-572	572.5	(N/A)	(N/A)	(N/A)	571.55	0.116	0.04
MH-931	573	571.5	(N/A)	(N/A)	571.3	49.251	0.63
MH-996	573	570.97	(N/A)	(N/A)	570.97	52.007	0.45
MH-1059	573	570.87	(N/A)	(N/A)	570.87	50.021	0.44
MH-315	573.05	570.44	(N/A)	(N/A)	570.44	2.624	0.18
MH-301	573.1	570.48	(N/A)	(N/A)	570.48	2.619	0.17
MH-38	573.19	572.24	570.91	(N/A)	570.91	49.846	0.55
MH-238	573.25	570.51	(N/A)	(N/A)	570.51	2.613	0.17
MH-237	573.5	570.54	(N/A)	(N/A)	570.54	2.61	0.16
MH-257	573.55	572.6	572.6	(N/A)	571.34	0.045	0.02
MH-937	573.81	572.11	(N/A)	(N/A)	572.11	46.358	0.56
MH-438	573.95	(N/A)	(N/A)	(N/A)	572.99	0.003	0.01
MH-69	573.98	570.58	(N/A)	(N/A)	570.58	2.608	0.16
MH-328	573.99	573.01	(N/A)	(N/A)	573.01	0.045	0.03
MH-90	574	572.95	572.95	572.95	572.95	0.037	0.03
MH-710	574	(N/A)	(N/A)	(N/A)	573.05	0.003	0.01
MH-934	574	(N/A)	(N/A)	(N/A)	573.05	0.014	0.02
MH-938	574	571.77	572.01	(N/A)	571.08	49.676	0.61
MH-68	574	570.6	(N/A)	(N/A)	570.6	2.604	0.16
MH-721	574	(N/A)	(N/A)	(N/A)	573.05	0.008	0.01

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-91	574	572.97	572.97	572.97	572.97	0.024	0.02
MH-751	574	(N/A)	(N/A)	(N/A)	573.05	0.02	0.02
MH-339	574	(N/A)	(N/A)	(N/A)	573.05	0.005	0.01
MH-322	574	(N/A)	(N/A)	(N/A)	573.05	0.006	0.01
MH-214	574	572.93	572.93	572.93	572.93	0.081	0.04
MH-197	574	572.64	(N/A)	(N/A)	572.64	0.124	0.03
MH-196	574	572.88	572.88	(N/A)	572.88	0.113	0.03
MH-357	574	(N/A)	(N/A)	(N/A)	573.05	0.005	0.01
MH-364	574	573.01	(N/A)	(N/A)	573.01	0.038	0.02
MH-376	574	(N/A)	(N/A)	(N/A)	573.05	0.103	0.05
MH-745	574	(N/A)	(N/A)	(N/A)	573.05	0.004	0.01
MH-761	574	(N/A)	(N/A)	(N/A)	573.05	0.004	0.01
MH-921	574	(N/A)	(N/A)	(N/A)	573.05	0.219	0.05
MH-746	574	572.91	572.91	(N/A)	572.91	0.088	0.04
MH-978	574	(N/A)	(N/A)	(N/A)	573.05	0.001	0
MH-419	574	(N/A)	(N/A)	(N/A)	573.05	0.035	0.03
MH-435	574	(N/A)	(N/A)	(N/A)	573.05	0.003	0.01
MH-885	574	(N/A)	(N/A)	(N/A)	573.05	0.005	0.01
MH-131	574	573.02	573.02	(N/A)	573.02	0.004	0.01
MH-130	574	(N/A)	(N/A)	(N/A)	573.05	0.001	0
MH-443	574	573.05	573.05	573.05	573.05	0.041	0.03
MH-273	574	(N/A)	(N/A)	(N/A)	573.05	0.002	0.01
MH-182	574	573.05	573.01	573.01	573.01	0.037	0.02
MH-284	574	573.01	(N/A)	(N/A)	573.01	0.006	0.01
MH-1018	574	571.16	(N/A)	(N/A)	571.16	50.616	0.62
MH-663	574	572.98	(N/A)	(N/A)	572.98	0.011	0.02
MH-18	574	(N/A)	(N/A)	(N/A)	573.05	0.006	0.01
MH-17	574	573.04	(N/A)	(N/A)	573.04	0.008	0.01
MH-1	574	572.99	(N/A)	(N/A)	572.99	0.007	0.01
MH-666	574	573.05	(N/A)	(N/A)	573.05	0.013	0.02
MH-623	574.06	572.78	573.11	(N/A)	572.78	1.017	0.09
MH-307	574.1	570.64	573.15	(N/A)	570.64	2.599	0.16
MH-40	574.13	570.67	(N/A)	(N/A)	570.67	2.594	0.16
MH-515	574.15	573.2	(N/A)	(N/A)	573.2	0.003	0.01
MH-129	574.15	570.96	573.17	573.2	570.96	0.058	0.03
MH-39	574.15	570.81	570.94	(N/A)	570.69	2.591	0.16
MH-338	574.25	573.3	(N/A)	(N/A)	573.25	0.004	0.01
MH-737	574.25	(N/A)	(N/A)	(N/A)	573.3	0.002	0
MH-514	574.25	(N/A)	(N/A)	(N/A)	573.3	0.002	0
MH-259	574.41	(N/A)	(N/A)	(N/A)	573.46	0.021	0.02
MH-258	574.5	573.55	(N/A)	(N/A)	572.89	0.04	0.02
MH-442	574.5	(N/A)	(N/A)	(N/A)	573.44	0.009	0.01
MH-783	574.53	573.58	(N/A)	(N/A)	573.58	0.017	0.02
MH-314	574.8	573.85	(N/A)	(N/A)	573.85	0.037	0.02
MH-491	574.85	573.9	573.9	(N/A)	573.9	0.033	0.03
MH-594	574.85	571	(N/A)	(N/A)	571	0.005	0.02
MH-159	574.89	573.36	(N/A)	(N/A)	573.36	0.047	0.03
MH-128	574.89	572.97	570.99	(N/A)	570.99	0.052	0.03
MH-316	574.9	(N/A)	(N/A)	(N/A)	573.95	0.005	0.01
MH-446	574.92	573.95	(N/A)	(N/A)	573.95	0.024	0.02

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-604	574.94	572.04	571.98	(N/A)	571.98	1.167	0.13
MH-404	574.94	(N/A)	(N/A)	(N/A)	573.99	0.008	0.01
MH-447	574.95	573.99	(N/A)	(N/A)	573.99	0.014	0.02
MH-603	574.98	572.05	572.12	(N/A)	572.05	1.149	0.13
MH-306	575	574	573.51	(N/A)	573.51	0.208	0.04
MH-448	575	573.91	(N/A)	(N/A)	573.91	0.993	0.11
MH-110	575	(N/A)	(N/A)	(N/A)	574.05	0.001	0.01
MH-412	575	574.05	571.36	(N/A)	571.36	2.06	0.19
MH-111	575	574.04	(N/A)	(N/A)	574.04	0.006	0.01
MH-1011	575	571.29	573.84	(N/A)	571.29	2.362	0.21
MH-136	575	571.4	573.65	(N/A)	571.4	2.006	0.18
MH-444	575	574.01	(N/A)	(N/A)	574.01	0.104	0.05
MH-880	575	574.03	573.49	(N/A)	573.49	0.026	0.02
MH-994	575	571.45	571.33	(N/A)	571.33	2.292	0.2
MH-388	575	(N/A)	(N/A)	(N/A)	574.05	0.008	0.01
MH-434	575	(N/A)	(N/A)	(N/A)	574.05	0.006	0.01
MH-189	575	574.05	574.05	(N/A)	573.39	0.026	0.02
MH-331	575	571.94	572.97	(N/A)	571.94	0.132	0.03
MH-332	575	571.63	572.96	(N/A)	571.51	1.457	0.14
MH-335	575	573.18	573.79	(N/A)	573.11	1.314	0.14
MH-226	575	572.94	(N/A)	(N/A)	572.94	0.033	0.03
MH-225	575	(N/A)	(N/A)	(N/A)	574.05	0.003	0.01
MH-344	575	574.05	(N/A)	(N/A)	574.05	0.485	0.11
MH-348	575	573.42	(N/A)	(N/A)	573.42	0.042	0.03
MH-251	575	573.01	(N/A)	(N/A)	573.01	0.107	0.05
MH-252	575	572.98	574.01	(N/A)	572.98	0.118	0.03
MH-349	575	573.45	(N/A)	(N/A)	573.45	0.034	0.03
MH-624	575	(N/A)	(N/A)	(N/A)	573.56	0.002	0
MH-1058	575	(N/A)	(N/A)	(N/A)	574.05	0.093	0.04
MH-862	575	(N/A)	(N/A)	(N/A)	574.05	0.017	0.02
MH-369	575	573.75	(N/A)	(N/A)	573.75	0.197	0.04
MH-863	575	573.97	(N/A)	(N/A)	573.97	0.033	0.03
MH-260	575	573.43	(N/A)	(N/A)	573.43	0.025	0.02
MH-183	575	573.33	(N/A)	(N/A)	573.33	0.026	0.02
MH-379	575	572.86	(N/A)	(N/A)	572.86	0.066	0.04
MH-173	575	574.03	(N/A)	(N/A)	574.03	0.007	0.01
MH-172	575	(N/A)	(N/A)	(N/A)	574.05	0.005	0.01
MH-384	575	571.26	573.84	(N/A)	571.26	2.465	0.21
MH-137	575	573.71	(N/A)	(N/A)	573.71	0.54	0.08
MH-395	575	574.03	572.95	(N/A)	572.95	0.027	0.02
MH-672	575	(N/A)	(N/A)	(N/A)	573.61	0.002	0
MH-164	575	572.22	(N/A)	(N/A)	572.22	0.123	0.03
MH-396	575	572.96	(N/A)	(N/A)	572.96	0.023	0.02
MH-651	575	(N/A)	(N/A)	(N/A)	574.05	0.007	0.01
MH-198	575	572.78	572.78	572.78	572.78	0.117	0.03
MH-30	575	574.04	(N/A)	(N/A)	574.04	0.008	0.01
MH-930	575	573.8	572.46	(N/A)	572.46	48.378	0.47
MH-496	575	574	(N/A)	(N/A)	574	0.491	0.11
MH-505	575	(N/A)	(N/A)	(N/A)	573.52	0.002	0
MH-981	575	572.84	571.37	(N/A)	571.37	2.028	0.19

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-495	575	573.94	(N/A)	(N/A)	573.94	0.497	0.11
MH-935	575	572.95	(N/A)	(N/A)	572.95	0.02	0.02
MH-476	575	(N/A)	(N/A)	(N/A)	573.98	0.99	0.11
MH-62	575	572.98	(N/A)	(N/A)	572.98	1.322	0.13
MH-518	575	(N/A)	(N/A)	(N/A)	574.05	0.101	0.05
MH-480	575	571.45	(N/A)	(N/A)	571.45	1.463	0.15
MH-427	575	573.38	572.9	(N/A)	572.9	0.063	0.04
MH-922	575	572.49	(N/A)	(N/A)	572.49	0.227	0.05
MH-29	575	(N/A)	(N/A)	(N/A)	574.05	0.006	0.01
MH-298	575	573.85	(N/A)	(N/A)	573.85	0.996	0.11
MH-537	575	574.05	571.3	(N/A)	571.3	2.324	0.2
MH-946	575	(N/A)	(N/A)	(N/A)	574.05	0.005	0.01
MH-947	575	571.05	573.95	(N/A)	571.05	2.53	0.14
MH-305	575	573.97	573.33	(N/A)	573.33	0.315	0.06
MH-796	575	573.97	(N/A)	(N/A)	573.97	0.02	0.01
MH-41	575	573.04	(N/A)	(N/A)	573.04	1.319	0.14
MH-51	575	572.81	(N/A)	(N/A)	572.81	0.072	0.04
MH-50	575	572.82	(N/A)	(N/A)	572.82	0.07	0.04
MH-54	575	572.62	(N/A)	(N/A)	572.62	0.12	0.03
MH-506	575	(N/A)	(N/A)	(N/A)	574.05	0.18	0.04
MH-42	575	573.06	(N/A)	(N/A)	573.06	1.315	0.14
MH-468	575	(N/A)	(N/A)	(N/A)	573.55	0.004	0.01
MH-55	575	572.46	(N/A)	(N/A)	572.46	0.121	0.03
MH-556	575	573	(N/A)	(N/A)	573	0.022	0.02
MH-278	575	573.79	(N/A)	(N/A)	573.79	0.538	0.08
MH-531	575.04	574.09	574.09	(N/A)	574.09	0.03	0.02
MH-675	575.05	571.08	(N/A)	(N/A)	571.08	2.52	0.19
MH-578	575.05	571.13	(N/A)	(N/A)	571.13	2.515	0.2
MH-577	575.1	571.19	(N/A)	(N/A)	571.19	2.507	0.21
MH-48	575.11	571.22	574.05	(N/A)	571.22	2.494	0.21
MH-646	575.13	574.18	(N/A)	(N/A)	574.18	0.014	0.02
MH-647	575.15	574.13	(N/A)	(N/A)	574.13	0.026	0.02
MH-158	575.16	573.34	573.95	(N/A)	573.34	0.058	0.03
MH-608	575.18	574.23	(N/A)	(N/A)	574.23	0.028	0.02
MH-638	575.25	(N/A)	(N/A)	(N/A)	574.21	0.014	0.01
MH-504	575.25	573.88	574.3	(N/A)	573.86	0.533	0.08
MH-188	575.28	(N/A)	(N/A)	(N/A)	574.3	0.01	0.01
MH-530	575.29	(N/A)	(N/A)	(N/A)	574.34	0.007	0.01
MH-550	575.32	574.37	(N/A)	(N/A)	574.35	0.019	0.01
MH-548	575.43	573.9	(N/A)	(N/A)	573.9	0.503	0.1
MH-200	575.56	573.3	574.61	(N/A)	573.3	0.064	0.04
MH-1069	575.65	573.66	(N/A)	(N/A)	573.66	43.46	0.41
MH-597	575.71	574.76	(N/A)	(N/A)	574.72	0.019	0.01
MH-583	575.72	(N/A)	(N/A)	(N/A)	574.7	0.006	0.01
MH-327	575.78	(N/A)	(N/A)	(N/A)	574.83	0.003	0.01
MH-503	575.81	574.86	(N/A)	(N/A)	574.77	0.028	0.02
MH-199	575.84	574.82	573.28	(N/A)	573.21	0.989	0.11
MH-549	575.86	(N/A)	(N/A)	(N/A)	574.82	0.015	0.01
MH-718	576.1	575.15	(N/A)	(N/A)	574.43	0.479	0.07
MH-582	576.21	575.07	(N/A)	(N/A)	575.07	0.902	0.08

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-596	576.22	(N/A)	(N/A)	(N/A)	575.24	0.011	0.01
MH-601	576.28	575.33	575.33	(N/A)	575.33	0.435	0.07
MH-46	576.31	575.27	575.27	(N/A)	575.27	0.476	0.07
MH-512	576.4	575.45	575.45	(N/A)	575.45	0.427	0.06
MH-717	576.7	575.75	(N/A)	(N/A)	575.75	0.038	0.02
MH-920	576.8	575.85	(N/A)	(N/A)	575.79	0.018	0.01
MH-600	576.81	575.86	(N/A)	(N/A)	575.8	0.005	0.01
MH-692	576.83	575.23	(N/A)	(N/A)	575.23	0.89	0.1
MH-511	576.88	575.93	(N/A)	(N/A)	575.84	0.008	0.01
MH-473	576.98	(N/A)	(N/A)	(N/A)	576.03	0.006	0.01
MH-818	576.99	575.66	576.04	(N/A)	575.66	0.384	0.06
MH-916	577	575.44	(N/A)	(N/A)	575.44	8.694	0.32
MH-24	577	575.79	(N/A)	(N/A)	575.79	4.738	0.24
MH-23	577	575.8	(N/A)	(N/A)	575.8	4.728	0.24
MH-497	577	575.22	575.57	(N/A)	575.22	9.215	0.33
MH-217	577.01	575.76	(N/A)	(N/A)	575.76	4.759	0.24
MH-498	577.01	575.26	(N/A)	(N/A)	575.26	9.13	0.33
MH-103	577.05	575.85	(N/A)	(N/A)	575.85	4.722	0.22
MH-45	577.05	575.79	(N/A)	(N/A)	575.79	0.381	0.06
MH-840	577.06	575.69	575.69	(N/A)	575.59	8.646	0.31
MH-525	577.07	575.17	576.12	(N/A)	575.17	9.343	0.33
MH-561	577.08	576.03	(N/A)	(N/A)	576.03	0.065	0.02
MH-457	577.08	575.88	(N/A)	(N/A)	575.88	3.876	0.18
MH-319	577.08	576.13	575.95	(N/A)	575.95	0.323	0.06
MH-483	577.09	(N/A)	(N/A)	(N/A)	576.14	0.003	0.01
MH-102	577.1	(N/A)	(N/A)	(N/A)	575.9	4.716	0.2
MH-420	577.1	575.31	(N/A)	(N/A)	575.31	9.048	0.32
MH-1057	577.12	573.91	(N/A)	(N/A)	573.91	42.7	0.56
MH-246	577.14	576.19	(N/A)	(N/A)	576.19	0.033	0.02
MH-585	577.14	575.55	575.9	(N/A)	575.55	8.677	0.31
MH-267	577.16	576.09	(N/A)	(N/A)	575.96	3.855	0.18
MH-421	577.17	575.33	(N/A)	(N/A)	575.33	8.985	0.32
MH-917	577.18	575.35	(N/A)	(N/A)	575.35	8.937	0.32
MH-245	577.19	576.24	(N/A)	(N/A)	576.24	0.03	0.02
MH-510	577.2	575.12	576.25	(N/A)	575.12	9.369	0.33
MH-234	577.2	576.25	576.25	(N/A)	576.25	0.028	0.02
MH-861	577.21	576.11	(N/A)	(N/A)	576.11	0.057	0.03
MH-584	577.22	576.27	(N/A)	(N/A)	576.27	0.021	0.01
MH-463	577.23	575.99	(N/A)	(N/A)	575.99	0.01	0.01
MH-268	577.23	(N/A)	(N/A)	(N/A)	576.16	3.842	0.21
MH-509	577.26	576.31	(N/A)	(N/A)	576.31	0.009	0.01
MH-233	577.26	576.31	(N/A)	(N/A)	576.31	0.012	0.01
MH-174	577.28	576.33	(N/A)	(N/A)	576.33	0.013	0.02
MH-793	577.3	576.35	575.08	(N/A)	575.08	9.416	0.33
MH-622	577.31	(N/A)	(N/A)	(N/A)	576.36	0.014	0.02
MH-787	577.31	576.36	(N/A)	(N/A)	576.36	0.014	0.02
MH-318	577.32	(N/A)	(N/A)	(N/A)	576.37	0.054	0.02
MH-372	577.33	576.38	(N/A)	(N/A)	576.38	0.008	0.01
MH-175	577.33	576.31	(N/A)	(N/A)	576.31	0.019	0.02
MH-265	577.35	576.4	576.4	(N/A)	576.38	0.676	0.09

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-690	577.35	576.19	(N/A)	(N/A)	576.19	0.042	0.03
MH-484	577.37	576.09	(N/A)	(N/A)	576.09	0.008	0.01
MH-470	577.37	576.42	(N/A)	(N/A)	576.33	0.035	0.02
MH-212	577.38	576.43	(N/A)	(N/A)	576.43	0.007	0.01
MH-839	577.38	(N/A)	(N/A)	(N/A)	576.43	0.004	0.01
MH-799	577.38	576.43	575.06	(N/A)	575.06	9.469	0.33
MH-722	577.39	(N/A)	(N/A)	(N/A)	576.44	0.009	0.01
MH-356	577.39	576.44	(N/A)	(N/A)	576.44	0.005	0.01
MH-266	577.41	(N/A)	(N/A)	(N/A)	576.46	0.007	0.01
MH-167	577.41	576.27	(N/A)	(N/A)	576.27	0.025	0.02
MH-786	577.42	576.47	(N/A)	(N/A)	576.47	0.009	0.01
MH-705	577.44	(N/A)	(N/A)	(N/A)	576.49	0.004	0.01
MH-355	577.45	(N/A)	(N/A)	(N/A)	576.5	0.002	0.01
MH-168	577.46	576.25	(N/A)	(N/A)	576.25	0.031	0.03
MH-213	577.46	(N/A)	(N/A)	(N/A)	576.51	0.006	0.01
MH-407	577.48	575.23	(N/A)	(N/A)	575.23	31.094	0.49
MH-408	577.48	575.19	576.53	(N/A)	575.19	31.112	0.48
MH-634	577.49	576.21	575.58	(N/A)	575.58	30.989	0.5
MH-782	577.5	(N/A)	(N/A)	(N/A)	576.48	0.002	0
MH-847	577.51	576.01	(N/A)	(N/A)	575.91	30.293	0.35
MH-324	577.51	576.56	(N/A)	(N/A)	576.56	0.014	0.02
MH-635	577.52	575.53	(N/A)	(N/A)	575.53	31.011	0.5
MH-871	577.52	575.1	576.55	(N/A)	575.1	31.203	0.36
MH-521	577.53	575.28	(N/A)	(N/A)	575.28	31.092	0.49
MH-160	577.54	(N/A)	(N/A)	(N/A)	576.59	0.004	0.01
MH-849	577.54	576.56	(N/A)	(N/A)	576.56	0.087	0.04
MH-891	577.55	(N/A)	(N/A)	(N/A)	576.6	0.01	0.01
MH-865	577.55	575	(N/A)	(N/A)	575	9.51	0.32
MH-236	577.55	576.17	576.6	(N/A)	576.17	0.265	0.05
MH-161	577.57	575.3	(N/A)	(N/A)	575.3	31.089	0.5
MH-323	577.57	576.62	(N/A)	(N/A)	576.62	0.012	0.01
MH-122	577.62	576.67	(N/A)	(N/A)	576.62	0.006	0.01
MH-248	577.63	576.68	(N/A)	(N/A)	576.68	0.656	0.09
MH-180	577.63	(N/A)	(N/A)	(N/A)	576.68	0.003	0.02
MH-221	577.64	576.69	(N/A)	(N/A)	576.69	0.009	0.01
MH-462	577.66	575.96	575.96	(N/A)	575.96	0.022	0.02
MH-826	577.67	574.62	574.92	576.66	574.62	40.837	0.6
MH-181	577.68	576.66	576.66	(N/A)	576.66	0.081	0.04
MH-47	577.68	(N/A)	(N/A)	(N/A)	576.67	0.004	0.01
MH-220	577.69	576.74	(N/A)	(N/A)	576.74	0.006	0.01
MH-696	577.7	575.36	(N/A)	(N/A)	575.36	31.087	0.5
MH-695	577.72	575.42	(N/A)	(N/A)	575.42	31.08	0.5
MH-222	577.73	576.7	(N/A)	(N/A)	576.7	0.072	0.03
MH-827	577.73	576.73	(N/A)	(N/A)	576.73	0.107	0.05
MH-26	577.74	(N/A)	(N/A)	(N/A)	576.79	0.002	0
MH-563	577.74	(N/A)	(N/A)	(N/A)	576.79	0.003	0.01
MH-358	577.75	(N/A)	(N/A)	(N/A)	576.8	0.003	0.01
MH-296	577.75	(N/A)	(N/A)	(N/A)	576.8	0.005	0.01
MH-235	577.77	576.24	(N/A)	(N/A)	576.24	0.258	0.05
MH-527	577.79	(N/A)	(N/A)	(N/A)	576.84	0.005	0.01

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-1028	577.81	576.31	(N/A)	(N/A)	576.31	30.262	0.44
MH-350	577.82	576.75	576.75	(N/A)	576.75	0.068	0.04
MH-754	577.84	576.82	(N/A)	(N/A)	576.82	0.089	0.04
MH-25	577.85	576.9	576.33	(N/A)	576.33	0.257	0.05
MH-441	577.85	576.9	(N/A)	(N/A)	576.9	0.032	0.02
MH-264	577.86	576.91	(N/A)	(N/A)	576.91	0.007	0.01
MH-1073	577.87	(N/A)	(N/A)	(N/A)	576.92	0.051	0.03
MH-185	577.87	576.8	576.8	(N/A)	576.8	0.062	0.03
MH-343	577.91	576.87	576.87	(N/A)	576.87	0.08	0.04
MH-844	577.91	574.5	575.15	576.88	574.5	40.942	0.58
MH-263	577.92	576.88	576.88	(N/A)	576.88	0.021	0.03
MH-184	577.92	(N/A)	(N/A)	(N/A)	576.97	0.055	0.02
MH-683	577.94	(N/A)	(N/A)	(N/A)	576.99	0.003	0.01
MH-976	577.99	575.53	(N/A)	(N/A)	575.53	0.861	0.1
MH-701	578	(N/A)	(N/A)	(N/A)	577.05	0.011	0.01
MH-734	578.02	(N/A)	(N/A)	(N/A)	577.07	0.008	0.01
MH-784	578.03	574.43	575.08	(N/A)	574.43	40.97	0.55
MH-342	578.06	577.1	(N/A)	(N/A)	577.1	0.056	0.02
MH-354	578.07	576.53	(N/A)	(N/A)	576.53	0.249	0.05
MH-781	578.12	(N/A)	(N/A)	(N/A)	577.17	0.048	0.03
MH-288	578.13	575.92	575.92	(N/A)	575.92	0.039	0.03
MH-105	578.17	576.99	(N/A)	(N/A)	576.99	0.032	0.02
MH-785	578.17	576.66	574.36	(N/A)	574.26	42.438	0.57
MH-104	578.2	577.01	(N/A)	(N/A)	577.01	0.018	0.02
MH-247	578.25	(N/A)	(N/A)	(N/A)	576.97	0.546	0.07
MH-287	578.31	577.36	(N/A)	(N/A)	577.23	0.028	0.02
MH-706	578.35	(N/A)	(N/A)	(N/A)	577.4	0.01	0.01
MH-334	578.36	577.41	(N/A)	(N/A)	577.3	0.007	0.01
MH-1077	578.36	(N/A)	(N/A)	(N/A)	577.41	0.007	0.01
MH-982	578.41	576.99	(N/A)	(N/A)	576.93	1.419	0.13
MH-1019	578.44	574.12	(N/A)	(N/A)	574.12	42.523	0.57
MH-837	578.45	(N/A)	(N/A)	(N/A)	577.39	0.003	0.01
MH-707	578.54	577.2	577.13	(N/A)	577.13	1.366	0.15
MH-576	578.55	577.6	577.15	(N/A)	577.15	1.35	0.14
MH-392	578.6	577.65	(N/A)	(N/A)	577.65	0.024	0.01
MH-575	578.6	577.22	(N/A)	(N/A)	577.22	1.315	0.14
MH-1000	578.6	577.1	(N/A)	(N/A)	577.1	30.111	0.37
MH-413	578.66	576.79	(N/A)	(N/A)	576.79	0.244	0.05
MH-232	578.66	(N/A)	(N/A)	(N/A)	577.71	0.141	0.04
MH-456	578.71	577.76	577.76	(N/A)	577.76	0.031	0.02
MH-333	578.75	(N/A)	(N/A)	(N/A)	577.74	0.002	0
MH-611	578.76	577.29	(N/A)	(N/A)	577.29	1.294	0.14
MH-455	578.76	(N/A)	(N/A)	(N/A)	577.81	0.004	0.01
MH-971	578.87	(N/A)	(N/A)	(N/A)	577.92	0.057	0.03
MH-282	578.89	577.94	(N/A)	(N/A)	577.94	0.02	0.01
MH-375	578.89	577.04	(N/A)	(N/A)	577.04	0.235	0.05
MH-171	578.9	577.48	(N/A)	(N/A)	577.48	0.146	0.04
MH-780	578.91	575.85	576.95	(N/A)	575.78	0.83	0.1
MH-610	578.93	(N/A)	(N/A)	(N/A)	577.98	0.016	0.01
MH-281	579.02	(N/A)	(N/A)	(N/A)	578.07	0.014	0.01

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-872	579.02	(N/A)	(N/A)	(N/A)	577.95	1.47	0.13
MH-609	579.1	577.41	(N/A)	(N/A)	577.41	1.283	0.14
MH-969	579.14	(N/A)	(N/A)	(N/A)	578.19	0.049	0.03
MH-70	579.17	578.22	577.27	(N/A)	577.27	0.231	0.05
MH-1040	579.19	577.03	(N/A)	(N/A)	577.03	0.769	0.1
MH-567	579.2	(N/A)	(N/A)	(N/A)	578.25	0.097	0.05
MH-904	579.26	(N/A)	(N/A)	(N/A)	578.31	0.063	0.04
MH-409	579.26	(N/A)	(N/A)	(N/A)	578.31	0.004	0.01
MH-46	579.38	578.26	(N/A)	(N/A)	578.26	0.082	0.03
MH-566	579.42	578.21	(N/A)	(N/A)	578.21	0.106	0.04
MH-870	579.43	577.84	(N/A)	(N/A)	577.84	1.948	0.17
MH-912	579.46	(N/A)	(N/A)	(N/A)	578.51	0.122	0.03
MH-699	579.48	(N/A)	(N/A)	(N/A)	578.53	0.042	0.02
MH-641	579.52	(N/A)	(N/A)	(N/A)	578.57	0.377	0.06
MH-926	579.57	577.55	(N/A)	(N/A)	577.55	1.266	0.14
MH-47	579.59	578.28	578.64	578.64	578.28	0.08	0.04
MH-999	579.61	578.39	578.09	(N/A)	578.09	29.898	0.37
MH-925	579.62	577.76	577.7	(N/A)	577.7	1.226	0.13
MH-719	579.69	577.95	577.88	(N/A)	577.88	1.124	0.12
MH-280	579.7	577.53	578.75	(N/A)	577.53	0.739	0.1
MH-370	579.72	(N/A)	(N/A)	(N/A)	578.77	0.006	0.01
MH-720	579.72	578.04	577.98	(N/A)	577.98	1.057	0.12
MH-859	579.73	578.22	(N/A)	(N/A)	578.22	0.08	0.04
MH-700	579.74	578.19	578.12	(N/A)	578.12	0.941	0.11
MH-2	579.75	578.49	(N/A)	(N/A)	578.49	4.376	0.23
MH-642	579.77	578.37	(N/A)	(N/A)	578.3	0.831	0.1
MH-911	579.83	(N/A)	(N/A)	(N/A)	578.88	0.045	0.02
MH-15	579.84	578.72	(N/A)	(N/A)	578.72	0.042	0.02
MH-1029	579.85	578.65	(N/A)	(N/A)	578.65	4.376	0.23
MH-302	579.85	577.75	(N/A)	(N/A)	577.75	2.258	0.18
MH-373	579.93	(N/A)	(N/A)	(N/A)	578.98	0.033	0.02
MH-311	579.94	(N/A)	(N/A)	(N/A)	578.99	0.02	0.02
MH-279	579.97	578.95	(N/A)	(N/A)	578.95	0.023	0.01
MH-1062	579.97	578.42	(N/A)	(N/A)	578.42	0.705	0.1
MH-866	580.02	577.63	(N/A)	(N/A)	577.63	0.141	0.04
MH-16	580.03	579.08	579.08	578.73	578.73	0.041	0.03
MH-956	580.03	575.81	(N/A)	(N/A)	575.81	29.705	0.37
MH-406	580.05	579.03	(N/A)	(N/A)	579.03	0.416	0.07
MH-269	580.18	576.85	577.72	578.14	576.62	2.894	0.19
MH-633	580.2	(N/A)	(N/A)	(N/A)	579.25	0.197	0.04
MH-923	580.24	(N/A)	(N/A)	(N/A)	579.29	0.416	0.07
MH-405	580.26	579.22	(N/A)	(N/A)	579.22	0.293	0.05
MH-275	580.27	579.32	(N/A)	(N/A)	579.32	0.021	0.01
MH-361	580.33	(N/A)	(N/A)	(N/A)	579.38	0.018	0.02
MH-368	580.34	578.51	578.51	(N/A)	578.51	0.331	0.06
MH-385	580.36	(N/A)	(N/A)	(N/A)	579.41	0.012	0.01
MH-536	580.48	579.53	578.92	(N/A)	578.92	0.257	0.05
MH-67	580.5	579.55	576.58	578.89	576.58	3.806	0.22
MH-224	580.51	578.06	576.95	(N/A)	576.92	0.541	0.08
MH-533	580.51	(N/A)	(N/A)	(N/A)	579.56	0.007	0.01

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-488	580.52	579.57	(N/A)	(N/A)	579.57	0.161	0.04
MH-34	580.56	579.36	(N/A)	(N/A)	577.75	16.637	0.32
MH-955	580.56	575.92	(N/A)	(N/A)	575.92	27.693	0.49
MH-66	580.68	579.72	(N/A)	(N/A)	579.72	0.487	0.07
MH-367	580.74	578.69	(N/A)	(N/A)	578.69	0.269	0.05
MH-433	580.74	579.79	576.54	(N/A)	576.54	3.816	0.22
MH-487	580.74	(N/A)	(N/A)	(N/A)	579.79	0.076	0.03
MH-71	580.78	579.83	579.52	(N/A)	579.52	0.027	0.02
MH-223	580.81	578.16	579.86	(N/A)	578.16	0.386	0.07
MH-27	580.96	580.01	(N/A)	(N/A)	580.01	0.044	0.02
MH-72	580.97	579.96	579.5	576.5	576.5	3.926	0.22
MH-152	580.99	(N/A)	(N/A)	(N/A)	580.03	0.004	0.01
MH-31	581	(N/A)	(N/A)	(N/A)	580.05	0.006	0.01
MH-414	581.01	(N/A)	(N/A)	(N/A)	580.06	0.014	0.01
MH-297	581.01	580.06	(N/A)	(N/A)	580.06	0.034	0.02
MH-32	581.06	580.03	(N/A)	(N/A)	580.03	0.011	0.02
MH-968	581.06	576.05	(N/A)	(N/A)	576.05	27.191	0.51
MH-702	581.13	(N/A)	(N/A)	(N/A)	580.18	0.018	0.02
MH-366	581.13	580.12	(N/A)	(N/A)	579.93	2.865	0.18
MH-365	581.24	579.89	(N/A)	(N/A)	579.89	2.989	0.19
MH-5	581.27	580.32	579.79	(N/A)	579.79	3.44	0.19
MH-1010	581.28	579.77	(N/A)	(N/A)	579.77	3.734	0.15
MH-277	581.29	579.99	580.34	580.33	579.99	0.075	0.04
MH-631	581.37	(N/A)	(N/A)	(N/A)	580.42	0.01	0.01
MH-850	581.46	(N/A)	(N/A)	(N/A)	580.3	0.035	0.02
MH-797	581.5	580.14	580.55	(N/A)	580.14	0.477	0.07
MH-727	581.58	576.4	579.38	(N/A)	576.1	27.088	0.51
MH-439	581.58	(N/A)	(N/A)	(N/A)	580.63	0.016	0.01
MH-691	581.66	580.71	580.36	(N/A)	580.36	0.449	0.07
MH-1016	581.66	580.16	(N/A)	(N/A)	580.16	25.413	0.34
MH-545	581.74	580.73	578.94	(N/A)	578.92	0.647	0.09
MH-163	581.76	580.81	580.37	580.81	580.37	0.037	0.03
MH-662	581.81	580.86	580.55	(N/A)	580.55	0.413	0.07
MH-469	581.94	(N/A)	(N/A)	(N/A)	580.99	0.01	0.01
MH-211	581.95	581	580.76	(N/A)	580.76	0.376	0.06
MH-606	581.97	(N/A)	(N/A)	(N/A)	581.02	0.057	0.03
MH-544	582.01	(N/A)	(N/A)	(N/A)	581.06	0.174	0.04
MH-326	582.01	(N/A)	(N/A)	(N/A)	581.06	0.014	0.01
MH-59	582.03	581.08	580.9	(N/A)	580.9	0.345	0.06
MH-693	582.04	(N/A)	(N/A)	(N/A)	581.09	0.114	0.03
MH-290	582.09	581.14	580.97	(N/A)	580.97	0.02	0.02
MH-519	582.09	(N/A)	(N/A)	(N/A)	581.14	0.026	0.02
MH-162	582.1	(N/A)	(N/A)	(N/A)	581.05	0.004	0.01
MH-58	582.11	581.16	580.98	(N/A)	580.98	0.329	0.06
MH-109	582.17	581.07	581.22	(N/A)	581.07	0.311	0.06
MH-499	582.19	(N/A)	(N/A)	(N/A)	581.24	0.211	0.04
MH-108	582.19	581.17	(N/A)	(N/A)	581.17	0.283	0.05
MH-195	582.25	581.3	580.95	(N/A)	580.95	0.037	0.03
MH-230	582.26	(N/A)	(N/A)	(N/A)	581.31	0.263	0.05
MH-694	582.27	580.79	580.77	(N/A)	580.77	0.66	0.09

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-686	582.28	(N/A)	(N/A)	(N/A)	581.33	0.006	0.03
MH-261	582.3	580.79	(N/A)	(N/A)	580.79	0.543	0.08
MH-1015	582.31	580.81	(N/A)	(N/A)	580.81	25.278	0.34
MH-967	582.33	579.44	(N/A)	(N/A)	579.44	23.065	0.42
MH-676	582.34	(N/A)	(N/A)	(N/A)	581.39	0.053	0.03
MH-607	582.35	580.87	580.87	(N/A)	580.84	0.539	0.08
MH-262	582.38	580.87	(N/A)	(N/A)	580.87	0.478	0.09
MH-677	582.41	581.33	580.71	(N/A)	580.71	0.723	0.1
MH-520	582.41	580.88	580.88	(N/A)	580.88	0.476	0.1
MH-386	582.46	(N/A)	(N/A)	(N/A)	581.51	0.006	0.01
MH-500	582.51	581.28	580.98	(N/A)	580.98	0.444	0.07
MH-430	582.54	(N/A)	(N/A)	(N/A)	581.59	0.004	0.01
MH-227	582.55	581.6	(N/A)	(N/A)	581.44	0.011	0.01
MH-192	582.56	581.37	(N/A)	(N/A)	581.37	0.229	0.05
MH-176	582.59	581.64	(N/A)	(N/A)	581.47	0.019	0.01
MH-616	582.59	581.44	(N/A)	(N/A)	581.44	0.225	0.05
MH-289	582.6	(N/A)	(N/A)	(N/A)	581.44	0.004	0.01
MH-644	582.61	(N/A)	(N/A)	(N/A)	581.66	0.019	0.02
MH-194	582.62	(N/A)	(N/A)	(N/A)	581.56	0.011	0.01
MH-832	582.66	(N/A)	(N/A)	(N/A)	581.26	0.012	0.01
MH-645	582.67	580.66	581.61	(N/A)	580.66	0.747	0.1
MH-687	582.7	581.29	581.27	(N/A)	581.27	0.609	0.09
MH-482	582.7	580.64	(N/A)	(N/A)	580.64	0.749	0.1
MH-617	582.7	(N/A)	(N/A)	(N/A)	581.75	0.211	0.04
MH-387	582.75	581.47	581.8	581.47	581.45	0.587	0.07
MH-767	582.76	581.53	(N/A)	(N/A)	581.53	0.115	0.04
MH-812	582.77	(N/A)	(N/A)	(N/A)	581.38	0.013	0.01
MH-747	582.78	(N/A)	(N/A)	(N/A)	581.44	0.016	0.01
MH-658	582.8	(N/A)	(N/A)	(N/A)	581.85	0.018	0.02
MH-626	582.81	580.89	580.82	(N/A)	580.82	1.23	0.13
MH-431	582.83	581.88	581.55	(N/A)	581.55	0.108	0.05
MH-568	582.84	581.89	581.41	(N/A)	581.41	1.171	0.1
MH-636	582.84	(N/A)	(N/A)	(N/A)	581.89	0.01	0.02
MH-649	582.86	581.91	581.44	(N/A)	581.44	1.133	0.12
MH-860	582.86	581.11	581.84	(N/A)	581.11	0.649	0.09
MH-659	582.87	580.62	581.8	(N/A)	580.62	0.771	0.1
MH-776	582.87	581.92	(N/A)	(N/A)	581.92	0.094	0.04
MH-394	582.9	581.48	581.95	(N/A)	581.48	1.111	0.12
MH-811	582.94	580.78	579.48	(N/A)	579.48	22.962	0.43
MH-756	582.96	(N/A)	(N/A)	(N/A)	581.61	0.013	0.01
MH-817	582.98	582.03	(N/A)	(N/A)	582.03	0.06	0.04
MH-729	582.99	(N/A)	(N/A)	(N/A)	581.66	0.008	0.01
MH-393	582.99	582.04	581.54	(N/A)	581.54	1.079	0.12
MH-682	583.01	582.02	580.6	(N/A)	580.6	0.794	0.1
MH-681	583.02	(N/A)	(N/A)	(N/A)	582.07	0.019	0.02
MH-777	583.03	(N/A)	(N/A)	(N/A)	582.08	0.081	0.03
MH-325	583.07	(N/A)	(N/A)	(N/A)	581.96	0.014	0.01
MH-581	583.07	582.12	581.63	(N/A)	581.63	1.015	0.11
MH-432	583.08	581.98	581.98	(N/A)	581.98	0.461	0.07
MH-300	583.08	(N/A)	(N/A)	(N/A)	581.92	0.005	0.01

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MH-816	583.09	(N/A)	(N/A)	(N/A)	582.14	0.019	0.02
MH-256	583.17	582.22	(N/A)	(N/A)	582.22	0.045	0.02
MH-481	583.17	580.57	(N/A)	(N/A)	580.53	0.801	0.1
MH-711	583.17	(N/A)	(N/A)	(N/A)	582.22	0.172	0.04
MH-250	583.21	581.82	582.26	(N/A)	581.77	0.871	0.1
MH-78	583.21	581.71	582.26	(N/A)	581.71	0.961	0.11
MH-255	583.23	582.28	(N/A)	(N/A)	582.28	0.035	0.02
MH-712	583.29	581.81	580.51	(N/A)	580.51	0.981	0.11
MH-249	583.3	581.88	582.35	(N/A)	581.88	0.789	0.11
MH-775	583.34	(N/A)	(N/A)	(N/A)	582.37	0.536	0.08
MH-680	583.35	(N/A)	(N/A)	(N/A)	582.4	0.021	0.02
MH-156	583.4	582.45	(N/A)	(N/A)	582.45	0.046	0.03
MH-614	583.41	582.46	582.46	(N/A)	582.46	0.108	0.05
MH-715	583.48	582.47	582.19	(N/A)	582.19	0.405	0.07
MH-347	583.49	582.02	(N/A)	(N/A)	582.02	0.733	0.1
MH-77	583.51	582.56	(N/A)	(N/A)	582.44	0.085	0.03
MH-755	583.55	(N/A)	(N/A)	(N/A)	582.6	0.02	0.02
MH-140	583.55	582.6	(N/A)	(N/A)	582.6	0.036	0.02
MH-157	583.57	582.62	582.43	582.43	582.43	0.253	0.05
MH-139	583.59	(N/A)	(N/A)	(N/A)	582.64	0.028	0.02
MH-371	583.65	582.7	(N/A)	(N/A)	582.7	0.092	0.03
MH-187	583.66	580.45	(N/A)	(N/A)	580.45	1.033	0.12
MH-35	583.69	(N/A)	(N/A)	(N/A)	582.74	0.021	0.02
MH-36	583.69	582.72	(N/A)	(N/A)	582.4	0.03	0.02
MH-668	583.69	(N/A)	(N/A)	(N/A)	582.74	0.027	0.02
MH-1067	583.71	(N/A)	(N/A)	(N/A)	582.76	0.447	0.07
MH-648	583.71	(N/A)	(N/A)	(N/A)	582.42	0.016	0.01
MH-186	583.73	580.41	(N/A)	(N/A)	580.41	1.044	0.12
MH-660	583.74	(N/A)	(N/A)	(N/A)	582.45	0.024	0.01
MH-363	583.75	582.8	(N/A)	(N/A)	582.8	0.08	0.03
MH-20	583.76	580.36	580.89	(N/A)	580.31	1.727	0.16
MH-615	583.79	582.69	(N/A)	(N/A)	582.69	0.057	0.02
MH-43	583.81	580.93	(N/A)	(N/A)	580.93	0.674	0.09
MH-351	583.81	582.86	(N/A)	(N/A)	582.62	0.076	0.03
MH-362	583.83	(N/A)	(N/A)	(N/A)	582.88	0.07	0.03
MH-312	583.83	582.88	(N/A)	(N/A)	582.67	0.05	0.02
MH-653	583.85	(N/A)	(N/A)	(N/A)	582.56	0.051	0.02
MH-138	583.87	582.92	(N/A)	(N/A)	582.77	0.078	0.03
MH-336	583.89	582.94	(N/A)	(N/A)	582.94	0.105	0.03
MH-96	583.9	582.21	(N/A)	(N/A)	582.21	0.609	0.09
MH-19	583.92	580.29	(N/A)	(N/A)	580.29	1.733	0.16
MH-664	583.92	(N/A)	(N/A)	(N/A)	582.63	0.041	0.02
MH-449	583.96	583.01	(N/A)	(N/A)	583.01	0.091	0.04
MH-890	583.97	(N/A)	(N/A)	(N/A)	583.02	0.031	0.03
MH-805	584	583.05	583.05	(N/A)	583.05	0.138	0.04
MH-933	584.04	580.45	(N/A)	(N/A)	580.45	18.878	0.45
MH-242	584.07	582.1	(N/A)	(N/A)	582.1	0.68	0.09
MH-97	584.08	582.16	(N/A)	(N/A)	582.16	0.662	0.09
MH-508	584.09	579.56	(N/A)	(N/A)	579.56	21.593	0.44
MH-806	584.1	(N/A)	(N/A)	(N/A)	583.15	0.077	0.03

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MH-882	584.1	(N/A)	(N/A)	(N/A)	583.15	0.01	0.01
MH-337	584.16	583.19	(N/A)	(N/A)	583.19	0.031	0.02
MH-574	584.16	583.21	(N/A)	(N/A)	583.21	0.019	0.02
MH-1072	584.28	582.78	(N/A)	(N/A)	582.78	24.893	0.33
MH-842	584.28	(N/A)	(N/A)	(N/A)	583.33	0.028	0.02
MH-179	584.28	580.26	(N/A)	(N/A)	580.26	1.749	0.16
MH-10	584.3	583.35	(N/A)	(N/A)	583.18	0.07	0.03
MH-9	584.33	(N/A)	(N/A)	(N/A)	583.38	0.017	0.01
MH-928	584.38	580.35	(N/A)	(N/A)	580.35	18.964	0.43
MH-61	584.39	583.44	(N/A)	(N/A)	583.21	0.068	0.02
MH-966	584.4	580.31	582.33	(N/A)	580.31	19.162	0.42
MH-346	584.41	(N/A)	(N/A)	(N/A)	583.23	0.037	0.02
MH-4	584.42	583.47	582.3	(N/A)	582.3	0.451	0.07
MH-502	584.43	583.48	583.48	(N/A)	583.48	0.081	0.03
MH-929	584.43	580.26	(N/A)	(N/A)	580.26	19.187	0.37
MH-60	584.44	(N/A)	(N/A)	(N/A)	583.49	0.045	0.02
MH-44	584.45	(N/A)	(N/A)	(N/A)	583.5	0.004	0.01
MH-501	584.49	583.54	(N/A)	(N/A)	583.54	0.049	0.03
MH-964	584.51	580.25	581.9	(N/A)	580.25	19.307	0.31
MH-513	584.53	(N/A)	(N/A)	(N/A)	583.58	0.033	0.03
MH-428	584.54	(N/A)	(N/A)	(N/A)	583.59	0.013	0.01
MH-1036	584.56	583.54	(N/A)	(N/A)	581.74	2.366	0.14
MH-889	584.57	583.62	582.93	(N/A)	582.93	0.066	0.04
MH-178	584.57	580.24	(N/A)	(N/A)	580.24	1.78	0.16
MH-1024	584.64	(N/A)	(N/A)	(N/A)	583.69	0.021	0.02
MH-881	584.69	582.9	582.9	(N/A)	582.9	0.089	0.04
MH-989	584.72	583.77	583.77	(N/A)	583.77	0.127	0.03
MH-507	584.73	579.61	(N/A)	(N/A)	579.61	21.482	0.44
MH-716	584.78	580.55	(N/A)	(N/A)	580.55	18.868	0.46
MH-841	584.79	582.87	582.87	(N/A)	582.87	0.134	0.04
MH-1083	584.81	583.52	(N/A)	(N/A)	583.52	16.637	0.32
MH-429	584.83	580.6	(N/A)	(N/A)	580.6	18.845	0.46
MH-398	584.84	580.61	(N/A)	(N/A)	580.61	18.831	0.46
MH-397	584.88	583.81	580.65	(N/A)	580.65	18.818	0.46
MH-985	584.89	583.94	583.36	(N/A)	583.36	0.167	0.04
MH-1042	584.99	583.4	(N/A)	(N/A)	583.4	24.237	0.4
MH-85	584.99	583.16	(N/A)	(N/A)	583.16	0.176	0.04
MH-1025	585.01	582.33	(N/A)	(N/A)	582.33	0.157	0.04
MH-979	585.03	(N/A)	(N/A)	(N/A)	584.08	0.06	0.02
MH-1048	585.06	(N/A)	(N/A)	(N/A)	584.11	0.198	0.04
MH-1027	585.08	583.68	(N/A)	(N/A)	583.58	23.418	0.46
MH-204	585.09	584.14	(N/A)	(N/A)	584.14	0.428	0.07
MH-231	585.12	580.19	579.86	(N/A)	579.76	21.179	0.44
MH-86	585.12	583.03	(N/A)	(N/A)	583.03	0.201	0.04
MH-203	585.14	584.04	584.19	(N/A)	583.92	1.67	0.15
MH-3131	585.17	(N/A)	(N/A)	(N/A)	584.22	0.004	0.01
MH-879	585.23	579.75	(N/A)	(N/A)	579.75	21.252	0.44
MH-741	585.37	584.42	581.93	582.63	581.93	0.403	0.07
MH-464	585.51	584.56	(N/A)	(N/A)	584.56	0.395	0.06
MH-1068	585.53	584.51	(N/A)	(N/A)	584.19	2.137	0.13

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-988	585.54	(N/A)	(N/A)	(N/A)	584.59	0.043	0.02
MH-740	585.59	(N/A)	(N/A)	(N/A)	584.64	0.022	0.02
MH-1013	585.64	(N/A)	(N/A)	(N/A)	584.69	0.012	0.02
MH-977	585.67	580.76	(N/A)	(N/A)	580.76	17.111	0.45
MH-732	585.67	579.66	(N/A)	(N/A)	579.66	21.411	0.44
MH-744	585.7	584.75	581.75	(N/A)	581.75	0.457	0.07
MH-984	585.71	(N/A)	(N/A)	(N/A)	584.76	0.026	0.02
MH-34	585.71	584.76	584.68	(N/A)	584.68	1.213	0.11
MH-760	585.78	(N/A)	(N/A)	(N/A)	584.83	0.03	0.03
MH-33	585.79	584.84	(N/A)	(N/A)	584.84	0.292	0.05
MH-764	585.87	584.47	582.91	(N/A)	582.46	14.983	0.39
MH-763	585.9	584.95	582.4	584.65	582.4	15.324	0.38
MH-876	585.91	584.51	(N/A)	(N/A)	584.51	21.552	0.32
MH-743	585.92	(N/A)	(N/A)	(N/A)	584.97	0.029	0.02
MH-736	586.02	584.77	581.59	585.07	581.57	0.538	0.08
MH-954	586.14	585.13	585.13	(N/A)	585.13	0.308	0.05
MH-735	586.24	(N/A)	(N/A)	(N/A)	585.29	0.028	0.02
MH-539	586.26	585.31	(N/A)	(N/A)	585.31	0.898	0.09
MH-875	586.34	584.94	(N/A)	(N/A)	584.94	20.644	0.32
MH-670	586.34	585.37	585.39	(N/A)	585.37	0.274	0.05
MH-878	586.35	585.29	585.29	(N/A)	585.29	0.253	0.05
MH-465	586.36	584.96	(N/A)	(N/A)	584.96	0.343	0.06
MH-900	586.41	581.42	584.94	582.27	581	17.051	0.43
MH-877	586.49	(N/A)	(N/A)	(N/A)	585.54	0.065	0.03
MH-87	586.51	585.56	(N/A)	(N/A)	585.56	0.058	0.04
MH-953	586.53	(N/A)	(N/A)	(N/A)	585.58	0.032	0.02
MH-731	586.57	(N/A)	(N/A)	(N/A)	585.62	0.017	0.01
MH-12	586.58	585.53	585.53	(N/A)	585.53	0.17	0.04
MH-11	586.58	585.54	(N/A)	(N/A)	585.54	0.07	0.04
MH-459	586.71	585.76	(N/A)	(N/A)	585.76	0.856	0.09
MH-424	586.73	(N/A)	(N/A)	(N/A)	585.78	0.009	0.01
MH-899	586.74	580.91	(N/A)	(N/A)	580.91	17.06	0.43
MH-418	586.76	585.79	585.09	(N/A)	585.02	1.17	0.13
MH-517	586.82	585.87	(N/A)	(N/A)	585.87	0.087	0.03
MH-650	586.86	(N/A)	(N/A)	(N/A)	585.91	0.031	0.03
MH-417	586.87	585.23	585.23	(N/A)	585.23	0.259	0.05
MH-888	586.89	585.49	(N/A)	(N/A)	585.49	20.508	0.32
MH-709	586.91	585.96	(N/A)	(N/A)	585.96	0.066	0.02
MH-132	586.96	585.76	(N/A)	(N/A)	585.76	0.018	0.01
MH-516	587.12	586.17	(N/A)	(N/A)	586.17	0.055	0.02
MH-53	587.12	(N/A)	(N/A)	(N/A)	586.17	0.018	0.03
MH-909	587.15	(N/A)	(N/A)	(N/A)	586.2	0.029	0.02
MH-133	587.16	585.55	585.55	(N/A)	585.55	0.221	0.05
MH-458	587.27	586.32	(N/A)	(N/A)	586.16	0.816	0.09
MH-191	587.28	(N/A)	(N/A)	(N/A)	586.33	0.018	0.02
MH-975	587.3	585.92	(N/A)	(N/A)	585.92	0.182	0.04
MH-403	587.33	586.36	(N/A)	(N/A)	586.36	0.892	0.09
MH-143	587.36	585.86	(N/A)	(N/A)	585.86	0.041	0.03
MH-857	587.37	(N/A)	(N/A)	(N/A)	586.42	0.186	0.04
MH-452	587.37	(N/A)	(N/A)	(N/A)	586.42	0.02	0.02

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-38	587.37	586.26	(N/A)	(N/A)	586.26	0.057	0.04
MH-4	587.39	(N/A)	(N/A)	(N/A)	586.44	0.021	0.02
MH-52	587.4	586.14	586.45	586.14	586.11	0.71	0.1
MH-359	587.42	585.32	(N/A)	(N/A)	585.32	0.3	0.05
MH-708	587.42	(N/A)	(N/A)	(N/A)	586.47	0.031	0.02
MH-939	587.45	586.05	(N/A)	(N/A)	586.05	20.333	0.31
MH-602	587.46	(N/A)	(N/A)	(N/A)	586.51	0.027	0.02
MH-37	587.53	586.58	586.25	(N/A)	586.25	0.082	0.04
MH-980	587.54	585.04	(N/A)	(N/A)	585.04	14.71	0.27
MH-190	587.55	586.3	(N/A)	(N/A)	586.3	0.03	0.02
MH-402	587.6	586.56	586.58	(N/A)	586.56	0.863	0.09
MH-144	587.6	585.84	586.04	(N/A)	585.84	0.184	0.04
MH-1082	587.63	586.43	(N/A)	(N/A)	586.43	14.32	0.3
MH-3	587.66	586.71	586.71	586.41	586.41	0.112	0.03
MH-898	587.68	(N/A)	(N/A)	(N/A)	586.73	0.032	0.02
MH-145	587.74	586.38	(N/A)	(N/A)	586.38	0.029	0.03
MH-474	587.76	(N/A)	(N/A)	(N/A)	586.81	0.027	0.02
MH-972	587.78	586.33	(N/A)	(N/A)	586.33	19.662	0.35
MH-477	587.78	(N/A)	(N/A)	(N/A)	586.83	0.019	0.02
MH-94	587.78	586.83	(N/A)	(N/A)	586.83	0.556	0.07
MH-1080	587.85	(N/A)	(N/A)	(N/A)	586.9	0.039	0.02
MH-89	587.85	586.04	(N/A)	(N/A)	586.04	0.179	0.04
MH-93	587.85	586.9	(N/A)	(N/A)	586.9	0.546	0.08
MH-1004	587.85	586.45	(N/A)	(N/A)	586.45	19.121	0.44
MH-733	587.94	(N/A)	(N/A)	(N/A)	586.99	0.011	0.01
MH-146	587.95	586.36	586.71	(N/A)	586.36	0.127	0.03
MH-974	587.96	587.01	(N/A)	(N/A)	587.01	0.111	0.03
MH-88	587.98	586.2	587.03	(N/A)	586.2	0.143	0.04
MH-118	588	(N/A)	(N/A)	(N/A)	587.05	0.027	0.02
MH-119	588.01	587.06	(N/A)	(N/A)	587.06	0.535	0.07
MH-883	588.01	(N/A)	(N/A)	(N/A)	587.06	0.032	0.02
MH-628	588.05	(N/A)	(N/A)	(N/A)	587.1	0.021	0.02
MH-8	588.09	(N/A)	(N/A)	(N/A)	587.14	0.008	0.01
MH-758	588.09	587.01	(N/A)	(N/A)	587.01	0.166	0.04
MH-834	588.11	(N/A)	(N/A)	(N/A)	587.16	0.11	0.03
MH-360	588.12	585.5	(N/A)	(N/A)	585.5	0.265	0.05
MH-92	588.12	587.17	(N/A)	(N/A)	587.17	0.052	0.02
MH-120	588.14	586.77	(N/A)	(N/A)	586.77	0.04	0.03
MH-101	588.17	587.22	(N/A)	(N/A)	587.22	0.526	0.07
MH-382	588.2	587.11	(N/A)	(N/A)	587.11	0.012	0.02
MH-117	588.2	586.79	587.03	(N/A)	586.79	0.053	0.06
MH-7	588.25	587.1	585.87	585.89	585.83	1.178	0.13
MH-84	588.27	587.32	(N/A)	(N/A)	587.32	0.04	0.02
MH-100	588.31	587.36	587.36	(N/A)	587.36	0.515	0.07
MH-579	588.32	586.92	(N/A)	(N/A)	586.92	18.757	0.34
MH-121	588.34	586.75	587.39	(N/A)	586.75	0.086	0.04
MH-723	588.36	585.61	585.16	(N/A)	585.16	14.135	0.36
MH-667	588.37	587.42	587.03	586.77	586.75	0.73	0.1
MH-83	588.4	587.45	(N/A)	(N/A)	587.45	0.028	0.02
MH-99	588.44	587.48	(N/A)	(N/A)	587.48	0.383	0.06

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MH-485	588.46	587.44	(N/A)	(N/A)	585.77	1.826	0.12
MH-107	588.49	587.09	(N/A)	(N/A)	587.09	18.654	0.3
MH-808	588.5	587.55	587.55	(N/A)	587.34	0.782	0.09
MH-153	588.5	587.55	586.18	586.18	586.18	0.438	0.06
MH-98	588.51	587.56	587.56	(N/A)	587.56	0.372	0.06
MH-759	588.51	(N/A)	(N/A)	(N/A)	587.56	0.133	0.03
MH-106	588.53	587.13	(N/A)	(N/A)	587.13	18.169	0.34
MH-95	588.54	(N/A)	(N/A)	(N/A)	587.59	0.017	0.01
MH-57	588.56	587.05	587.61	(N/A)	587.05	0.054	0.03
MH-123	588.58	(N/A)	(N/A)	(N/A)	587.63	0.106	0.03
MH-389	588.69	(N/A)	(N/A)	(N/A)	587.74	0.025	0.02
MH-486	588.69	587.74	(N/A)	(N/A)	587.68	1.649	0.16
MH-6	588.7	587.75	586.39	(N/A)	586.39	0.344	0.06
MH-56	588.72	(N/A)	(N/A)	(N/A)	587.77	0.026	0.02
MH-6	588.73	(N/A)	(N/A)	(N/A)	587.78	0.004	0.01
MH-5	588.76	587.81	(N/A)	(N/A)	587.81	0.036	0.02
MH-154	588.76	587.81	(N/A)	(N/A)	587.78	0.041	0.02
MH-210	588.78	587.38	(N/A)	(N/A)	587.38	18.136	0.3
MH-773	588.79	586.49	587.84	(N/A)	586.49	0.296	0.05
MH-828	588.81	(N/A)	(N/A)	(N/A)	587.86	0.116	0.03
MH-205	588.84	587.89	(N/A)	(N/A)	587.89	0.256	0.05
MH-116	588.85	587.9	587.54	(N/A)	587.54	0.617	0.09
MH-209	588.91	587.51	(N/A)	(N/A)	587.51	18.098	0.3
MH-1014	589.01	(N/A)	(N/A)	(N/A)	588.03	0.028	0.02
MH-206	589.03	(N/A)	(N/A)	(N/A)	588.08	0.233	0.05
MH-286	589.03	587.63	(N/A)	(N/A)	587.63	17.806	0.4
MH-772	589.04	(N/A)	(N/A)	(N/A)	588.09	0.108	0.03
MH-141	589.05	588.1	(N/A)	(N/A)	588.06	0.03	0.02
MH-112	589.05	587.71	(N/A)	(N/A)	587.71	0.036	0.05
MH-80	589.05	588.1	(N/A)	(N/A)	588.1	0.188	0.04
MH-807	589.18	588.23	(N/A)	(N/A)	588.22	0.263	0.05
MH-285	589.22	587.82	(N/A)	(N/A)	587.82	17.708	0.29
MH-79	589.22	588.27	(N/A)	(N/A)	588.27	0.181	0.04
MH-113	589.24	587.69	588.18	(N/A)	587.69	0.415	0.07
MH-142	589.29	(N/A)	(N/A)	(N/A)	588.32	0.018	0.01
MH-605	589.3	(N/A)	(N/A)	(N/A)	588.1	0.028	0.02
MH-918	589.3	587.25	585.68	(N/A)	585.3	13.572	0.36
MH-125	589.36	(N/A)	(N/A)	(N/A)	588.41	0.02	0.03
MH-919	589.36	587.44	(N/A)	(N/A)	587.34	12.047	0.33
MH-82	589.42	588.47	(N/A)	(N/A)	588.47	0.172	0.04
MH-1052	589.43	588.48	588.48	(N/A)	588.19	1.587	0.12
MH-580	589.44	(N/A)	(N/A)	(N/A)	588.49	0.128	0.03
MH-124	589.56	588.38	(N/A)	(N/A)	588.38	0.028	0.05
MH-81	589.59	(N/A)	(N/A)	(N/A)	588.64	0.161	0.04
MH-571	589.61	588.66	(N/A)	(N/A)	588.51	0.481	0.07
MH-627	589.69	588.29	(N/A)	(N/A)	588.29	16.626	0.41
MH-869	589.72	588.13	(N/A)	(N/A)	588.13	17.439	0.31
MH-416	589.72	588.77	588.37	588.77	588.37	0.366	0.06
MH-155	589.91	587.55	(N/A)	(N/A)	587.55	11.495	0.36
MH-76	589.91	588.96	(N/A)	(N/A)	588.96	0.058	0.02

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MH-821	589.91	(N/A)	(N/A)	(N/A)	588.93	0.201	0.04
MH-44	589.96	588.05	(N/A)	(N/A)	588.05	0.151	0.04
MH-75	590.08	(N/A)	(N/A)	(N/A)	589.13	0.05	0.02
MH-19	590.1	588.8	(N/A)	(N/A)	588.8	10.223	0.32
MH-45	590.14	588.75	587.92	(N/A)	587.57	10.614	0.36
MH-436	590.23	589.28	(N/A)	(N/A)	589.27	0.273	0.05
MH-570	590.26	589.13	(N/A)	(N/A)	589.13	0.453	0.07
MH-293	590.57	588.24	(N/A)	(N/A)	588.24	16.941	0.41
MH-437	590.62	589.67	(N/A)	(N/A)	589.67	0.249	0.05
MH-823	590.62	589.02	(N/A)	(N/A)	589.02	16.592	0.28
MH-294	590.66	588.21	(N/A)	(N/A)	588.21	17.36	0.4
MH-21	590.66	(N/A)	(N/A)	(N/A)	589.71	0.386	0.07
MH-22	590.76	589.66	(N/A)	(N/A)	589.66	0.41	0.06
MH-20	590.8	589.4	(N/A)	(N/A)	589.4	10.223	0.23
MH-329	590.95	589.55	(N/A)	(N/A)	589.55	15.245	0.38
MH-21	591	589.7	(N/A)	(N/A)	589.7	10.223	0.32
MH-330	591.06	589.52	(N/A)	(N/A)	589.52	15.268	0.38
MH-836	591.08	(N/A)	(N/A)	(N/A)	590.13	0.224	0.05
MH-150	591.41	589.41	(N/A)	(N/A)	589.41	16.511	0.28
MH-149	591.42	590.45	589.43	(N/A)	589.43	16.439	0.35
MH-492	591.43	589.47	(N/A)	(N/A)	589.47	15.276	0.37
MH-1064	591.65	(N/A)	(N/A)	(N/A)	590.67	0.789	0.11
MH-22	591.8	589.83	590.16	(N/A)	589.83	10.223	0.31
MH-1049	591.81	(N/A)	(N/A)	(N/A)	589.91	0.615	0.08
MH-810	591.95	590.55	(N/A)	(N/A)	590.23	15.105	0.27
MH-1063	591.99	589.99	(N/A)	(N/A)	589.99	9.172	0.32
MH-1051	592.12	(N/A)	(N/A)	(N/A)	590.48	0.849	0.09
MH-906	592.4	591.34	(N/A)	(N/A)	591.34	1.153	0.1
MH-822	592.42	(N/A)	(N/A)	(N/A)	591.47	0.161	0.04
MH-558	592.49	591.09	(N/A)	(N/A)	591.09	15.075	0.27
MH-1078	592.51	590.09	590.42	(N/A)	590.09	8.867	0.32
MH-1032	592.54	591.5	(N/A)	(N/A)	591.48	1.05	0.1
MH-1035	592.78	(N/A)	(N/A)	(N/A)	591.83	0.372	0.06
MH-557	592.79	591.39	(N/A)	(N/A)	591.39	15.038	0.27
MH-819	592.88	590.95	590.6	591.62	590.6	7.905	0.2
MH-1071	592.98	591.56	(N/A)	(N/A)	591.56	10.621	0.25
MH-820	593.2	(N/A)	(N/A)	(N/A)	592.25	0.137	0.04
MH-903	593.24	592.26	(N/A)	(N/A)	592.26	1.095	0.1
MH-932	593.24	(N/A)	(N/A)	(N/A)	592.29	0.11	0.05
MH-1079	593.26	591.01	(N/A)	(N/A)	591.01	7.538	0.2
MH-2300	593.33	591.03	(N/A)	(N/A)	591.03	7.449	0.25
MH-856	593.48	591.94	(N/A)	(N/A)	591.94	14.978	0.27
MH-12	593.48	591.07	591.42	(N/A)	591.07	7.449	0.27
MH-14	593.5	591.29	(N/A)	(N/A)	591.29	7.077	0.21
MH-341	593.53	(N/A)	(N/A)	(N/A)	592.58	0.033	0.03
MH-902	593.59	592.61	(N/A)	(N/A)	592.61	1.011	0.1
MH-1017	593.61	592.21	(N/A)	(N/A)	592.21	14.337	0.38
MH-340	593.73	592.54	(N/A)	(N/A)	592.54	0.077	0.03
MH-148	593.75	592.8	(N/A)	(N/A)	592.8	0.074	0.04
MH-401	593.86	(N/A)	(N/A)	(N/A)	592.91	0.049	0.02

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-147	593.88	592.78	(N/A)	(N/A)	592.78	0.154	0.04
MH-1012	593.98	592.86	591.33	(N/A)	591.33	7.077	0.25
MH-493	594	591.86	593.05	591.86	591.86	0.521	0.11
MH-851	594	592.96	(N/A)	(N/A)	592.96	0.886	0.09
MH-490	594.03	592.6	(N/A)	(N/A)	592.6	14.037	0.37
MH-489	594.04	592.64	(N/A)	(N/A)	592.64	13.883	0.37
MH-830	594.05	592.45	(N/A)	(N/A)	592.45	14.181	0.31
MH-864	594.07	592.02	(N/A)	(N/A)	592.02	14.779	0.36
MH-835	594.09	593.14	(N/A)	(N/A)	593.12	0.789	0.11
MH-829	594.13	592.52	(N/A)	(N/A)	592.52	14.124	0.36
MH-15	594.2	593.24	(N/A)	(N/A)	593.24	0.245	0.05
MH-858	594.2	593.25	592.2	(N/A)	592.2	0.339	0.06
MH-494	594.27	593.2	591.82	593.07	591.47	6.761	0.27
MH-1026	594.4	(N/A)	(N/A)	(N/A)	593.45	0.245	0.05
MH-16	594.5	593.3	593.55	(N/A)	593.3	3.26	0.14
MH-831	594.57	593.62	(N/A)	(N/A)	593.62	0.617	0.08
MH-26	594.65	593.45	(N/A)	(N/A)	593.45	3.154	0.14
MH-303	594.8	593.85	(N/A)	(N/A)	593.85	0.07	0.03
MH-983	594.92	593.43	(N/A)	(N/A)	593.43	13.349	0.25
MH-166	594.95	593.65	(N/A)	(N/A)	593.55	13.089	0.35
MH-25	594.98	593.78	(N/A)	(N/A)	593.78	3.154	0.13
MH-952	594.99	(N/A)	(N/A)	(N/A)	593.88	0.106	0.03
MH-165	595.01	593.81	(N/A)	(N/A)	593.71	12.806	0.3
MH-685	595.07	594.05	(N/A)	(N/A)	594.05	0.433	0.06
MH-24	595.1	593.8	(N/A)	(N/A)	593.8	3.154	0.16
MH-479	595.19	593.85	594.1	(N/A)	593.85	3.154	0.19
MH-229	595.31	594.33	(N/A)	(N/A)	594.33	0.194	0.04
MH-884	595.33	594.26	(N/A)	(N/A)	594.13	2.892	0.17
MH-569	595.47	594.27	(N/A)	(N/A)	594.27	11.735	0.27
MH-228	595.48	594.53	(N/A)	(N/A)	594.53	0.17	0.04
MH-551	595.48	594.09	(N/A)	(N/A)	594.09	2.924	0.13
MH-684	595.49	594.54	(N/A)	(N/A)	594.54	0.133	0.03
MH-998	595.5	593.3	594.3	(N/A)	593.17	8.41	0.22
MH-304	595.58	(N/A)	(N/A)	(N/A)	594.18	0.039	0.02
MH-942	595.58	594.25	(N/A)	(N/A)	594.2	1.458	0.14
MH-33	595.6	593.37	(N/A)	(N/A)	593.37	2.509	0.2
MH-802	595.61	594.54	(N/A)	(N/A)	594.54	2.446	0.2
MH-957	595.62	594.55	(N/A)	(N/A)	594.55	2.917	0.15
MH-724	595.62	594.67	(N/A)	(N/A)	594.67	0.111	0.05
MH-32	595.7	593.43	(N/A)	(N/A)	593.43	2.509	0.21
MH-215	595.7	(N/A)	(N/A)	(N/A)	594.75	0.025	0.01
MH-894	595.79	594.5	594.44	594.5	594.44	1.198	0.13
MH-31	595.8	593.49	(N/A)	(N/A)	593.49	2.509	0.21
MH-30	595.83	593.94	(N/A)	(N/A)	593.94	2.509	0.21
MH-895	595.85	(N/A)	(N/A)	(N/A)	594.9	0.087	0.03
MH-216	595.88	594.47	594.6	(N/A)	594.47	2.506	0.13
MH-941	595.89	594.06	(N/A)	(N/A)	594.06	2.509	0.21
MH-949	595.95	(N/A)	(N/A)	(N/A)	595	0.228	0.05
MH-800	596.02	(N/A)	(N/A)	(N/A)	595.07	0.021	0.01
MH-241	596.05	594.85	(N/A)	(N/A)	594.85	11.7	0.27

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Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-948	596.22	594.5	(N/A)	(N/A)	594.5	0.841	0.1
MH-240	596.31	595.11	(N/A)	(N/A)	595.11	11.579	0.27
MH-914	596.47	595.52	595.5	(N/A)	595.4	1.781	0.16
MH-913	596.49	595.54	595.1	(N/A)	595.1	2.197	0.13
MH-725	596.5	594.61	595.37	(N/A)	594.55	0.819	0.1
MH-915	596.56	595.31	(N/A)	(N/A)	595.31	1.845	0.16
MH-766	596.66	595.18	595.71	(N/A)	595.18	2.105	0.18
MH-868	596.68	(N/A)	(N/A)	(N/A)	595.48	0.063	0.02
MH-688	596.73	595.53	(N/A)	(N/A)	595.53	11.526	0.26
MH-803	596.99	596.04	(N/A)	(N/A)	596.04	0.28	0.05
MH-1002	597.06	(N/A)	(N/A)	(N/A)	596.11	0.34	0.06
MH-689	597.1	595.9	(N/A)	(N/A)	595.9	11.401	0.26
MH-36	597.24	(N/A)	(N/A)	(N/A)	596.29	0.004	0.01
MH-804	597.29	595.71	596.34	(N/A)	595.68	1.3	0.12
MH-901	597.48	596.53	(N/A)	(N/A)	595.42	0.133	0.03
MH-65	597.49	596.29	(N/A)	(N/A)	594.85	5.347	0.18
MH-64	597.57	596.37	(N/A)	(N/A)	596.37	5.305	0.25
MH-1001	597.59	596.64	595.59	(N/A)	595.56	0.665	0.09
MH-838	597.69	596.49	(N/A)	(N/A)	596.49	11.137	0.26
MH-765	597.71	596.59	(N/A)	(N/A)	596.25	0.204	0.04
MH-1054	597.74	596.79	596.79	(N/A)	596.79	0.083	0.03
MH-951	597.83	596.88	(N/A)	(N/A)	596.88	0.163	0.04
MH-843	597.88	596.91	(N/A)	(N/A)	596.81	1.622	0.15
MH-833	598.05	597.1	(N/A)	(N/A)	597.01	0.282	0.05
MH-532	598.15	596.66	597.08	(N/A)	596.53	5.176	0.2
MH-589	598.24	(N/A)	(N/A)	(N/A)	597.29	0.043	0.02
MH-927	598.25	597.18	597.3	(N/A)	595.59	2.857	0.14
MH-1034	598.29	(N/A)	(N/A)	(N/A)	595.24	0.067	0.02
MH-943	598.39	597.19	(N/A)	(N/A)	597.19	10.883	0.26
MH-27	598.47	(N/A)	(N/A)	(N/A)	597.5	0.004	0.01
MH-753	598.52	597.57	597.57	(N/A)	597.57	0.395	0.06
MH-590	598.64	597.57	(N/A)	(N/A)	597.38	2.432	0.13
MH-704	598.83	597.76	(N/A)	(N/A)	597.76	3.516	0.16
MH-855	598.84	597.89	(N/A)	(N/A)	597.89	0.286	0.05
MH-535	598.93	597.82	(N/A)	(N/A)	597.82	0.23	0.05
MH-950	599.18	598.23	(N/A)	(N/A)	597.96	0.111	0.03
MH-28	599.2	598.23	(N/A)	(N/A)	597.94	1.412	0.11
MH-534	599.21	(N/A)	(N/A)	(N/A)	598.26	0.153	0.04
MH-854	599.3	(N/A)	(N/A)	(N/A)	598.35	0.26	0.05
MH-632	599.37	598.42	(N/A)	(N/A)	598.17	0.079	0.03
MH-924	599.41	598.46	(N/A)	(N/A)	597.32	0.396	0.06
MH-541	599.7	598.75	(N/A)	(N/A)	598.75	0.055	0.02
MH-867	599.78	598.71	(N/A)	(N/A)	598.36	2.413	0.13
MH-769	599.86	598.58	598.88	(N/A)	598.58	3.407	0.16
MH-990	599.94	598.74	(N/A)	(N/A)	598.37	10.498	0.25
MH-1053	600	(N/A)	(N/A)	(N/A)	598.82	0.048	0.02
MH-1041	600.11	599.13	(N/A)	(N/A)	598.93	1.412	0.11
MH-475	600.17	599.22	599.1	(N/A)	599.08	2.373	0.13
MH-1009	600.29	599.22	(N/A)	(N/A)	599.22	2.146	0.12
MH-540	600.34	(N/A)	(N/A)	(N/A)	599.2	0.022	0.01

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MH-524	600.53	599.56	(N/A)	(N/A)	599.49	1.187	0.1
MH-1022	600.65	599.69	(N/A)	(N/A)	597.52	0.23	0.05
MH-450	600.71	599.76	(N/A)	(N/A)	599.69	0.075	0.03
MH-774	600.9	599.67	(N/A)	(N/A)	599.67	2.28	0.13
MH-907	600.9	599.95	(N/A)	(N/A)	599.95	0.191	0.04
MH-771	600.94	599.6	(N/A)	(N/A)	599.4	0.239	0.05
MH-619	600.98	600.03	599.91	(N/A)	599.91	2.245	0.13
MH-272	601.01	600.03	(N/A)	(N/A)	599.99	1.137	0.1
MH-618	601.04	599.97	(N/A)	(N/A)	599.97	2.214	0.18
MH-814	601.05	600.1	(N/A)	(N/A)	600.1	0.174	0.04
MH-451	601.12	600.17	(N/A)	(N/A)	600.15	0.053	0.02
MH-35	601.14	600.14	600.19	(N/A)	600.14	0.173	0.04
MH-271	601.35	600.34	(N/A)	(N/A)	600.34	1.094	0.1
MH-291	601.37	(N/A)	(N/A)	(N/A)	600.42	0.011	0.01
MH-1044	601.4	599.46	599.5	(N/A)	599.4	2.075	0.15
MH-10	601.43	600.48	(N/A)	(N/A)	600.45	0.023	0.01
MH-9	601.5	600.43	(N/A)	(N/A)	600.43	2.068	0.12
MH-657	601.52	600.57	(N/A)	(N/A)	600.48	0.162	0.04
MH-1021	601.53	600.33	(N/A)	(N/A)	600.33	9.722	0.24
MH-292	601.75	(N/A)	(N/A)	(N/A)	600.77	0.023	0.01
MH-886	601.8	(N/A)	(N/A)	(N/A)	600.85	0.095	0.03
MH-770	601.88	600.83	(N/A)	(N/A)	600.83	1.247	0.11
MH-1060	601.94	600.99	(N/A)	(N/A)	597.96	0.916	0.1
MH-656	601.98	601.03	(N/A)	(N/A)	601.03	0.141	0.04
MH-892	602	(N/A)	(N/A)	(N/A)	601.05	0.064	0.04
MH-893	602.02	600.96	601.07	(N/A)	600.96	0.361	0.06
MH-11	602.08	(N/A)	(N/A)	(N/A)	601.13	0.004	0.01
MH-42	602.08	601.13	601.13	(N/A)	601.13	0.828	0.1
MH-411	602.08	599.79	(N/A)	(N/A)	599.79	0.631	0.09
MH-8	602.1	601.03	(N/A)	(N/A)	601.03	2.068	0.12
MH-49	602.16	601.19	(N/A)	(N/A)	601.19	1.018	0.1
MH-987	602.21	601.19	601.26	(N/A)	601.14	2.068	0.15
MH-48	602.34	601.37	601.36	(N/A)	601.34	0.977	0.09
MH-308	602.34	601.37	(N/A)	(N/A)	601.37	0.111	0.04
MH-309	602.36	(N/A)	(N/A)	(N/A)	601.41	0.057	0.03
MH-410	602.51	599.9	601.56	(N/A)	599.87	0.631	0.09
MH-41	602.56	601.52	601.52	(N/A)	601.52	0.73	0.08
MH-1003	602.57	601.37	(N/A)	(N/A)	601.37	9.053	0.23
MH-7	602.61	601.66	600.06	(N/A)	600.06	0.455	0.07
MH-742	602.63	600.11	(N/A)	(N/A)	600.11	0.42	0.07
MH-40	602.64	601.69	(N/A)	(N/A)	601.69	0.159	0.04
MH-779	602.69	(N/A)	(N/A)	(N/A)	601.74	0.031	0.02
MH-523	602.73	601.75	(N/A)	(N/A)	601.75	0.087	0.03
MH-1066	602.75	(N/A)	(N/A)	(N/A)	601.8	0.055	0.03
MH-135	602.76	601.74	(N/A)	(N/A)	601.74	0.923	0.09
MH-846	602.82	600.6	601.87	(N/A)	600.6	1.376	0.11
MH-134	602.9	601.93	(N/A)	(N/A)	601.93	0.907	0.09
MH-801	602.93	601.71	601.71	(N/A)	601.71	0.562	0.07
MH-991	603.11	(N/A)	(N/A)	(N/A)	602.16	0.066	0.03
MH-845	603.14	(N/A)	(N/A)	(N/A)	602.19	0.05	0.02

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MH-591	603.14	(N/A)	(N/A)	(N/A)	602.19	0.061	0.04
MH-239	603.2	602.22	(N/A)	(N/A)	602.21	0.884	0.09
MH-543	603.22	(N/A)	(N/A)	(N/A)	602.14	0.036	0.02
MH-587	603.32	(N/A)	(N/A)	(N/A)	602.37	0.051	0.02
MH-528	603.35	602.4	602.06	(N/A)	602.06	0.235	0.05
MH-824	603.4	600.67	(N/A)	(N/A)	600.67	1.306	0.14
MH-43	603.5	601.96	(N/A)	(N/A)	601.96	0.435	0.07
MH-599	603.52	602.12	(N/A)	(N/A)	602.12	0.139	0.04
MH-453	603.56	602.49	(N/A)	(N/A)	602.49	0.123	0.03
MH-170	603.58	602.38	(N/A)	(N/A)	602.38	8.343	0.22
MH-815	603.6	602.58	(N/A)	(N/A)	602.58	1.313	0.14
MH-986	603.6	602.33	(N/A)	(N/A)	602.33	1.386	0.11
MH-454	603.73	602.66	(N/A)	(N/A)	602.66	0.1	0.03
MH-673	603.73	602.77	(N/A)	(N/A)	602.77	0.07	0.04
MH-1055	603.75	602.8	(N/A)	(N/A)	602.8	0.092	0.03
MH-674	603.77	(N/A)	(N/A)	(N/A)	602.82	0.02	0.02
MH-169	603.79	602.59	(N/A)	(N/A)	602.59	7.978	0.22
MH-825	603.81	601.77	602.83	(N/A)	601.74	1.166	0.1
MH-671	603.88	602.15	602.72	(N/A)	602.15	0.253	0.05
MH-553	603.92	602.97	602.13	(N/A)	602.13	0.407	0.07
MH-529	603.93	602.83	(N/A)	(N/A)	602.83	0.137	0.04
MH-970	603.97	(N/A)	(N/A)	(N/A)	603.02	0.107	0.04
MH-555	604.03	603.08	(N/A)	(N/A)	603.08	0.177	0.04
MH-629	604.12	600.86	603.09	(N/A)	600.86	1.236	0.13
MH-669	604.24	603.04	(N/A)	(N/A)	603.04	7.866	0.22
MH-639	604.28	603.14	(N/A)	(N/A)	603.14	0.828	0.09
MH-809	604.28	602.87	601.06	(N/A)	600.99	0.902	0.1
MH-1007	604.29	(N/A)	(N/A)	(N/A)	603.34	0.127	0.03
MH-552	604.3	603.35	(N/A)	(N/A)	603.35	0.249	0.05
MH-792	604.32	603.36	601.36	(N/A)	601.36	0.323	0.06
MH-905	604.4	(N/A)	(N/A)	(N/A)	603.45	0.081	0.04
MH-598	604.55	603.6	(N/A)	(N/A)	603.6	0.07	0.04
MH-621	604.59	603.62	(N/A)	(N/A)	603.62	0.769	0.08
MH-39	604.59	(N/A)	(N/A)	(N/A)	603.14	0.004	0.01
MH-554	604.6	603.55	(N/A)	(N/A)	603.55	0.137	0.04
MH-630	604.74	603.79	(N/A)	(N/A)	603.79	0.188	0.04
MH-1008	604.78	603.83	(N/A)	(N/A)	603.77	0.978	0.12
MH-791	604.85	601.76	(N/A)	(N/A)	601.76	0.208	0.04
MH-778	604.86	(N/A)	(N/A)	(N/A)	603.91	0.055	0.03
MH-422	604.87	(N/A)	(N/A)	(N/A)	603.92	0.037	0.03
MH-219	604.88	603.68	(N/A)	(N/A)	603.68	7.693	0.21
MH-625	604.92	603.85	603.97	(N/A)	603.85	0.261	0.05
MH-423	604.97	603.88	(N/A)	(N/A)	603.88	0.124	0.03
MH-620	605.04	604.07	(N/A)	(N/A)	604.07	0.713	0.08
MH-218	605.05	603.85	(N/A)	(N/A)	603.85	6.918	0.2
MH-1023	605.15	603.84	(N/A)	(N/A)	603.84	0.832	0.09
MH-995	605.22	(N/A)	(N/A)	(N/A)	604.27	0.111	0.03
MH-244	605.27	604.07	(N/A)	(N/A)	604.07	6.819	0.2
MH-945	605.29	603	(N/A)	(N/A)	603	0.523	0.12
MH-207	605.33	604.38	604.38	(N/A)	604.38	0.152	0.04

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-208	605.35	(N/A)	(N/A)	(N/A)	604.4	0.02	0.02
MH-14	605.38	604.23	(N/A)	(N/A)	604.23	0.668	0.09
MH-595	605.44	(N/A)	(N/A)	(N/A)	604.49	0.056	0.02
MH-243	605.45	604.25	(N/A)	(N/A)	604.25	6.709	0.2
MH-13	605.47	604.26	604.28	(N/A)	604.26	0.655	0.09
MH-698	605.48	603.28	(N/A)	(N/A)	603.28	1.224	0.1
MH-1039	605.53	604.58	604.58	(N/A)	604.54	0.923	0.1
MH-739	605.55	604.06	(N/A)	(N/A)	604.06	0.762	0.09
MH-788	605.68	604.37	(N/A)	(N/A)	604.37	0.241	0.05
MH-738	605.74	(N/A)	(N/A)	(N/A)	604.54	6.202	0.19
MH-789	605.76	604.01	(N/A)	(N/A)	604.01	0.345	0.06
MH-1037	605.8	(N/A)	(N/A)	(N/A)	604.85	0.044	0.02
MH-944	605.93	603.37	(N/A)	(N/A)	603.37	0.44	0.07
MH-959	605.99	604.26	604.26	(N/A)	604.24	0.712	0.1
MH-640	605.99	604.39	(N/A)	(N/A)	604.39	0.586	0.08
MH-547	606.01	605.06	(N/A)	(N/A)	605.06	0.099	0.05
MH-1046	606.09	604.36	(N/A)	(N/A)	604.36	0.499	0.11
MH-993	606.11	605.16	603.74	(N/A)	603.74	1.152	0.13
MH-897	606.13	604.67	605.18	(N/A)	604.67	0.438	0.07
MH-798	606.13	604.99	(N/A)	(N/A)	604.99	0.158	0.04
MH-910	606.17	605.17	605.17	(N/A)	605.17	0.242	0.05
MH-963	606.18	605.23	(N/A)	(N/A)	605.23	0.094	0.04
MH-612	606.2	604.52	(N/A)	(N/A)	604.52	0.56	0.08
MH-958	606.24	(N/A)	(N/A)	(N/A)	605.29	0.16	0.04
MH-992	606.28	605.19	(N/A)	(N/A)	605.19	0.096	0.03
MH-546	606.29	(N/A)	(N/A)	(N/A)	605.34	0.039	0.02
MH-1047	606.32	(N/A)	(N/A)	(N/A)	605.37	0.064	0.04
MH-478	606.49	604.67	(N/A)	(N/A)	604.65	0.541	0.08
MH-1020	606.52	605.57	(N/A)	(N/A)	605.57	0.569	0.07
MH-896	606.52	(N/A)	(N/A)	(N/A)	605.57	0.111	0.03
MH-749	606.6	605.65	(N/A)	(N/A)	605.65	0.245	0.05
MH-697	606.65	603.57	(N/A)	(N/A)	603.57	1.172	0.1
MH-852	606.68	605.73	605.73	(N/A)	605.16	0.844	0.09
MH-887	606.69	(N/A)	(N/A)	(N/A)	605.74	0.096	0.03
MH-750	606.7	605.32	(N/A)	(N/A)	605.32	0.284	0.05
MH-790	606.72	605.23	604.78	(N/A)	604.78	0.493	0.11
MH-425	606.76	604.71	(N/A)	(N/A)	604.71	0.518	0.11
MH-426	606.81	(N/A)	(N/A)	(N/A)	605.86	0.069	0.03
MH-460	606.88	(N/A)	(N/A)	(N/A)	605.93	0.024	0.02
MH-726	607.12	605.71	(N/A)	(N/A)	605.71	0.167	0.04
MH-461	607.16	606.21	605.89	(N/A)	605.89	0.123	0.03
MH-713	607.21	606.26	606.26	(N/A)	606.26	0.192	0.04
MH-679	607.24	606.29	(N/A)	(N/A)	606.29	0.079	0.03
MH-678	607.31	(N/A)	(N/A)	(N/A)	606.36	0.043	0.03
MH-714	607.68	(N/A)	(N/A)	(N/A)	606.73	0.039	0.02
MH-1043	608.07	(N/A)	(N/A)	(N/A)	607.12	0.09	0.03
MH-853	608.11	607.16	(N/A)	(N/A)	606.51	0.333	0.06
MH-1006	608.96	(N/A)	(N/A)	(N/A)	606.95	0.267	0.05
MH-1038	609.37	(N/A)	(N/A)	(N/A)	606.23	0.051	0.02
MH-962	609.44	608.49	(N/A)	(N/A)	606.31	0.154	0.04

NODE REPORT ZONE 6

Label	Elevation (Ground) (m)	Elevation (Invert in 1) (m)	Elevation (Invert in 2) (m)	Elevation (Invert in 3) (m)	Elevation (Invert) (m)	Base Load (Local Sanitary) (MLD)	Depth (Out) (m)
MH-1005	610	(N/A)	(N/A)	(N/A)	608.43	0.286	0.05
MH-1074	612.14	(N/A)	(N/A)	(N/A)	608.39	0.485	0.07
MH-961	612.46	(N/A)	(N/A)	(N/A)	609.54	0.121	0.03

OUTFALL REPORT ZONE 6

ID	Label	Elevation (Ground) (m)	Elevation (Invert) (m)	Hydraulic Grade (m)	Flow (Total Out) (MLD)
2394	OF-1	571.5	569.61	569.61	56.498
2398	OF-2	571.5	567.9	567.9	58.514

SALIM ALI

Pipe Report for Zone Salim Ali STP

Label	Start Node	Stop Node	Invert (Start) (m)	Invert (Stop) (m)	Length (Unified) (m)	Diameter (mm)	Velocity (Average) (m/s)	Slope (%)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)
co1	MH-195	OF-1	588.18	588.17	12.5	600	0.89	0.133	16.56	1.4	1.46	1.42	52.6
co2	MH-189	MH-24	599.14	598.64	69.2	200	0.97	0.723	1.75	0.8	0.8	0.8	62.2
co3	MH-193	MH-30	593.22	593.2	20.7	450	0.72	0.133	6.88	2	2.03	2.05	66.4
co4	MH-210	MH-168	593.55	593.51	33.2	400	0.69	0.133	6.08	4.4	4.61	4.18	63.2
co5	MH-13	MH-196	594.01	593.92	61.9	300	0.6	0.152	2.82	4.9	4.93	4.94	69.5
co6	MH-88	MH-105	597.86	598.53	90.8	150	0.6	0.739	0.26	1.1	1.32	0.8	34
co7	MH-207	MH-151	597.51	596.9	161.2	200	0.6	0.377	0.67	3.7	3.07	4.23	40.1
co8	MH-151	MH-226	596.85	596.48	132.6	250	0.6	0.281	1.04	3.7	4.23	3.25	50.8
co9	MH-226	MH-76	596.48	596.27	96.9	250	0.6	0.217	1.55	2.8	3.25	2.44	60.4
co10	MH-93	MH-33	588.43	588.4	22.3	600	0.87	0.133	14.28	1.4	1.43	1.41	67.4
co11	MH-33	MH-58	588.4	588.37	24.1	600	0.88	0.133	15.85	1.4	1.41	1.44	67.6
co12	MH-7	MH-255	588.89	588.8	68.9	350	0.63	0.133	4.29	1.7	1.76	1.65	74.8
co13	MH-255	MH-256	588.8	588.73	53	350	0.63	0.133	4.36	1.6	1.65	1.49	71.6
co14	MH-256	MH-93	588.73	588.68	34.4	350	0.63	0.133	4.38	1.5	1.49	1.43	58.3
co15	MH-156	MH-212	602.71	602.05	125.6	150	0.65	0.53	0.54	1.5	1.97	1.06	55.7
co16	MH-212	MH-123	602.05	601.2	84.4	150	0.89	1	0.77	0.9	1.06	0.8	56.3
co17	MH-172	MH-28	602.25	601.68	56.4	150	0.36	1	0.03	0.9	1	0.8	10.9
co18	MH-115	MH-26	590.35	590.51	26.2	150	0.73	0.611	0.7	0.8	0.8	0.8	58
co19	MH-114	MH-35	598.01	597.95	46.3	150	0.16	0.133	0.02	0.9	0.84	0.9	12.2
co20	MH-71	MH-35	597.08	597.06	13.4	150	0.26	0.133	0.12	1.7	1.52	1.78	37.2
co21	MH-215	MH-115	589.92	590.3	103.9	200	0.6	0.364	0.7	1	1.24	0.8	50.3
co22	MH-26	MH-143	590.51	590.95	51.8	150	0.34	0.851	0.03	0.8	0.8	0.8	36.1
co23	MH-143	MH-144	590.95	591.03	38.1	150	0.16	0.206	0.01	0.8	0.8	0.8	10.7
co24	MH-26	MH-148	590.51	591.18	71.9	150	0.84	0.931	0.65	0.9	0.8	1.06	57
co25	MH-148	MH-149	591.18	591.38	39.9	150	0.6	0.499	0.44	0.9	1.06	0.8	50.8
co26	MH-149	MH-146	591.38	592.05	94.5	150	0.68	0.708	0.42	1.3	0.8	1.75	45.6
co27	MH-146	MH-135	592.05	592.1	38.4	150	0.29	0.133	0.17	1.7	1.75	1.55	42.3
co28	MH-135	MH-111	592.1	592.15	35.7	150	0.28	0.133	0.16	1.5	1.55	1.41	40.4
co29	MH-111	MH-112	592.15	592.18	25.3	150	0.27	0.133	0.13	1.4	1.41	1.31	37.6
co30	MH-112	MH-214	592.18	593.11	99.4	150	0.27	0.939	0.01	1.1	1.31	0.8	21.6
co31	MH-167	MH-141	593.81	593.73	53.6	150	0.25	0.133	0.1	0.9	0.8	1	29.9
co32	MH-141	MH-142	593.73	593.41	37.2	150	0.6	0.878	0.21	1	1	1.03	29.7
co33	MH-142	MH-146	593.41	592.77	77.4	150	0.6	0.827	0.22	1	1.03	1.03	29.7
co34	MH-142	MH-178	593.41	593.5	59.4	150	0.11	0.161	0	0.9	1.03	0.8	18.5
co35	MH-183	MH-135	593.43	592.85	61	150	0.23	0.954	0.01	0.8	0.8	0.8	5.5
co36	MH-187	MH-111	593.36	592.76	62.8	150	0.3	0.963	0.02	0.8	0.8	0.8	8.1

Pipe Report for Zone Salim Ali STP

Label	Start Node	Stop Node	Invert (Start) (m)	Invert (Stop) (m)	Length (Unified) (m)	Diameter (mm)	Velocity (Average) (m/s)	Slope (%)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)
co37	MH-170	MH-160	593.13	592.64	55.5	150	0.3	0.886	0.02	0.8	0.8	0.8	13.5
co38	MH-160	MH-147	592.64	592.23	47.2	150	0.46	0.855	0.08	0.8	0.8	0.8	25.1
co39	MH-147	MH-112	592.23	592.18	39.3	150	0.25	0.133	0.11	1.1	0.8	1.31	33.9
co40	MH-213	MH-160	592.99	592.64	96.3	150	0.29	0.367	0.05	0.8	0.8	0.8	17.5
co41	MH-237	MH-148	593.44	591.44	200.3	150	0.61	1	0.19	1	1.26	0.8	26.8
co42	MH-215	MH-216	589.92	589.62	100.3	200	0.6	0.302	0.94	1.2	1.24	1.18	50
co43	MH-216	MH-205	589.57	589.26	132.9	250	0.6	0.235	1.36	1.2	1.18	1.27	55.4
co44	MH-205	MH-163	589.26	589.07	85.6	250	0.6	0.218	1.54	1.2	1.27	1.14	50.8
co45	MH-163	MH-33	589.07	588.75	52.1	250	0.89	0.612	1.57	1.3	1.14	1.41	43.3
co46	MH-58	MH-194	588.37	588.28	69.5	600	0.88	0.133	15.87	1.6	1.44	1.72	66.5
co47	MH-194	MH-195	588.28	588.18	69.5	600	0.88	0.133	15.89	1.6	1.72	1.46	61.7
co48	MH-229	MH-230	596.43	595.05	137.8	150	0.5	1	0.09	1.1	1.42	0.8	29.8
co49	MH-230	MH-86	595.05	594	178	150	0.6	0.591	0.34	0.9	0.8	1.03	39.1
co50	MH-86	MH-87	593.95	593.87	17.7	200	0.6	0.414	0.59	1	1.03	0.92	36.8
co51	MH-87	MH-165	592.43	591.62	81.4	200	0.86	1	0.69	1.6	2.36	0.8	35.6
co52	MH-165	MH-108	590.53	590	53	200	0.9	1	0.82	1.3	1.89	0.8	44.9
co53	MH-108	MH-109	590	589.89	25	200	0.67	0.424	0.88	0.8	0.8	0.8	49.2
co54	MH-109	MH-119	589.89	589.78	27.4	200	0.68	0.421	0.91	0.8	0.8	0.8	47.9
co55	MH-119	MH-130	589.78	589.44	60	200	0.76	0.563	0.93	0.8	0.8	0.8	51.4
co56	MH-130	MH-93	589.44	589.34	32.9	200	0.6	0.299	0.95	0.9	0.8	0.92	50.5
co57	MH-93	MH-129	589.21	589.28	32.9	450	0.91	0.211	8.93	0.8	0.8	0.8	57
co58	MH-129	MH-157	589.28	589.5	97.2	450	0.95	0.233	8.86	0.8	0.8	0.84	64.3
co59	MH-157	MH-47	589.5	589.56	46	450	0.75	0.133	8.72	0.9	0.84	0.89	68.2
co60	MH-47	MH-48	589.56	589.57	7.6	450	0.74	0.133	8.66	0.9	0.89	0.9	72.5
co61	MH-48	MH-85	589.87	590.02	15.8	150	0.6	0.923	0.2	0.8	0.9	0.8	27.5
co62	MH-85	MH-200	590.02	590.76	74.1	150	0.52	1	0.11	1.1	0.8	1.47	24.8
co63	MH-48	MH-67	589.67	590.78	110.3	450	1.62	1	8.38	1.1	0.8	1.48	49.5
co64	MH-67	MH-68	591.75	591.88	12.8	150	0.7	1	0.3	0.8	0.8	0.85	34
co65	MH-68	MH-182	591.93	592.53	60.7	150	0.63	1	0.21	0.9	0.8	1.01	28.4
co66	MH-67	MH-174	591.45	592.38	92.7	450	1.6	1	8	1	0.8	1.1	43
co67	MH-174	MH-152	592.68	593.02	57.6	450	1.29	0.585	7.51	0.9	0.8	0.94	44.6
co68	MH-152	MH-153	593.02	593.07	42.1	450	0.73	0.133	7.43	1.2	0.94	1.37	54.5
co69	MH-153	MH-30	593.07	593.2	92.4	450	0.73	0.133	7.14	1.7	1.37	2.05	65.1
co70	MH-193	MH-168	593.22	593.46	174.7	450	0.71	0.133	6.47	3.1	2.03	4.18	64.6
co71	MH-75	MH-116	596.43	596.52	27.1	200	0.6	0.339	0.78	2.3	2.32	2.2	52.5
co72	MH-116	MH-38	596.52	596.64	35.1	200	0.6	0.344	0.77	2.2	2.2	2.13	48.1

Pipe Report for Zone Salim Ali STP

Label	Start Node	Stop Node	Invert (Start) (m)	Invert (Stop) (m)	Length (Unified) (m)	Diameter (mm)	Velocity (Average) (m/s)	Slope (%)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)
co73	MH-39	MH-136	596.65	596.85	50.9	200	0.6	0.386	0.65	2.2	2.13	2.25	43.9
co74	MH-38	MH-39	596.64	596.65	2.7	200	0.6	0.375	0.68	2.1	2.13	2.13	46.7
co75	MH-136	MH-94	596.85	596.99	35.7	200	0.6	0.392	0.64	2.3	2.25	2.32	41.7
co76	MH-94	MH-59	598.56	598.98	74.4	150	0.64	0.569	0.47	0.9	0.8	1.02	46.4
co77	MH-60	MH-36	599.04	599.15	22.9	150	0.6	0.487	0.45	0.9	0.94	0.8	49.8
co78	MH-59	MH-60	598.98	599.04	11.9	150	0.6	0.484	0.46	1	1.02	0.94	49.1
co79	MH-113	MH-114	598.05	598.01	26.5	150	0.12	0.133	0.01	0.8	0.8	0.84	12.3
co80	MH-35	MH-94	597.06	597.04	19.5	150	0.28	0.133	0.15	2	1.78	2.32	31.9
co81	MH-184	MH-104	597.21	597.13	61.3	150	0.22	0.133	0.06	1	0.8	1.13	27.4
co82	MH-104	MH-70	597.13	597.1	23.8	150	0.24	0.133	0.09	1.2	1.13	1.25	32.1
co83	MH-70	MH-71	597.1	597.08	13.1	150	0.26	0.133	0.12	1.4	1.25	1.52	34.8
co84	MH-185	MH-70	597.52	597.1	61.6	150	0.24	0.682	0.01	1	0.8	1.25	20.7
co85	MH-166	MH-39	598.04	597.97	53.6	150	0.11	0.133	0.01	0.8	0.8	0.86	6.4
co86	MH-92	MH-54	597.63	597.57	20.4	150	0.2	0.308	0.02	0.8	0.8	0.86	11.6
co87	MH-54	MH-79	597.57	597.4	38.4	150	0.26	0.429	0.03	1	0.86	1.18	19
co88	MH-79	MH-80	597.4	597.38	14.3	150	0.22	0.133	0.07	1.2	1.18	1.26	26.2
co89	MH-80	MH-38	597.38	597.35	25.9	150	0.23	0.133	0.08	1.4	1.26	1.47	22.1
co90	MH-50	MH-79	597.43	597.4	22.9	150	0.18	0.133	0.03	1.2	1.16	1.18	21.7
co91	MH-50	MH-138	597.43	597.52	66.4	150	0.15	0.133	0.02	1	1.16	0.8	15.5
co92	MH-49	MH-50	597.83	597.79	9.8	150	0.17	0.405	0.01	0.8	0.8	0.8	6.4
co93	MH-74	MH-71	597.81	597.79	13.7	150	0.1	0.133	0	0.8	0.8	0.82	5.5
co94	MH-53	MH-54	597.58	597.57	10.4	150	0.1	0.133	0	0.8	0.8	0.86	9.5
co95	MH-234	MH-228	606.3	604.73	156.7	150	0.86	1	0.65	2.6	4.37	0.8	51.4
co96	MH-228	MH-190	601.78	600.44	133.8	150	0.96	1	1.08	2.3	3.75	0.8	69.2
co97	MH-190	MH-191	599.81	599.13	68	150	0.98	1	1.28	1.1	1.43	0.8	77.3
co98	MH-191	MH-180	599.08	598.44	72.8	200	0.98	0.877	1.36	0.8	0.8	0.8	52.1
co99	MH-180	MH-219	594.94	595.55	114.9	150	0.6	0.535	0.4	3.2	4.35	2.08	44.9
co100	MH-219	MH-124	595.55	596.27	104.5	150	0.6	0.687	0.29	1.6	2.08	1.2	39.8
co101	MH-124	MH-125	596.27	596.31	30.8	150	0.29	0.133	0.17	1	1.2	0.8	37.9
co102	MH-201	MH-202	604.46	603.66	80.8	150	0.7	1	0.29	1.1	1.42	0.8	33.6
co103	MH-202	MH-36	600.76	599.15	161.2	150	0.76	1	0.41	2.2	3.69	0.8	45.6
co104	MH-88	MH-100	597.86	596.66	175.3	150	0.6	0.681	0.29	1.6	1.32	1.8	38.5
co105	MH-100	MH-101	596.66	596.53	23.5	150	0.6	0.569	0.36	2	1.8	2.14	44.2
co106	MH-11	MH-27	594.1	594.06	31.7	300	0.6	0.154	2.7	4.6	4.56	4.71	70.1
co107	MH-101	MH-11	596.53	595.87	128.9	150	0.6	0.515	0.42	2.5	2.14	2.94	44.4
co108	MH-27	MH-13	594.06	594.01	29.9	300	0.6	0.154	2.73	4.8	4.71	4.93	70.7

Pipe Report for Zone Salim Ali STP

Label	Start Node	Stop Node	Invert (Start) (m)	Invert (Stop) (m)	Length (Unified) (m)	Diameter (mm)	Velocity (Average) (m/s)	Slope (%)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)
co109	MH-224	MH-13	597.84	597.69	114.3	150	0.22	0.133	0.07	1.1	0.8	1.4	21.1
co110	MH-2	MH-173	598.23	598.31	56.7	150	0.22	0.133	0.06	1.1	0.94	1.23	20.3
co111	MH-173	MH-177	598.31	598.39	58.5	150	0.15	0.133	0.02	1	1.23	0.8	19.2
co112	MH-24	MH-2	593.7	593.77	49.7	350	0.63	0.133	4.16	5.4	5.58	5.2	70.6
co113	MH-24	MH-210	593.65	593.55	77.7	400	0.68	0.133	5.98	5.1	5.58	4.61	70.4
co114	MH-123	MH-188	600.49	599.58	121	200	0.9	0.746	1.21	1.1	1.46	0.8	55
co115	MH-188	MH-189	599.58	599.14	57.9	200	0.98	0.771	1.65	0.8	0.8	0.8	61.4
co116	MH-155	MH-156	602.77	602.71	43.6	150	0.26	0.133	0.12	1.4	0.8	1.97	43.7
co117	MH-2	MH-196	593.77	593.87	71.6	350	0.62	0.133	4.03	5.1	5.2	4.94	72.3
co118	MH-196	MH-75	595.91	596.43	171.6	200	0.6	0.299	0.95	2.7	3.04	2.32	50.5
co119	MH-9	MH-164	595.74	595.41	51.5	250	0.99	0.63	2.26	0.9	0.94	0.8	53.8
co120	MH-76	MH-9	596.27	595.74	253.9	250	0.6	0.209	1.66	1.7	2.44	0.94	57.6
co121	MH-19	MH-171	592.35	592.26	56.1	300	0.6	0.151	2.85	2.8	3.07	2.43	59
co122	MH-164	MH-19	595.41	594.67	76.2	250	1.18	0.97	2.44	0.8	0.8	0.8	51.7
co123	MH-21	MH-161	590.81	590.33	61	300	1.21	0.777	3.76	1.1	1.41	0.8	54.1
co124	MH-171	MH-21	592.26	591.42	138.7	300	1.05	0.609	3.06	1.6	2.43	0.8	48.2
co125	MH-161	MH-7	590.33	589.9	46.6	300	1.31	0.929	3.86	0.8	0.8	0.8	51.6
co126	MH-225	MH-9	597.23	595.98	124.7	150	0.62	1	0.2	1	1.26	0.8	27.4
co127	MH-235	MH-19	593.94	592.5	171.6	150	0.6	0.841	0.22	1.9	0.8	3.07	34.8
co128	MH-233	MH-227	593.14	591.57	156.7	150	0.67	1	0.26	1.1	1.31	0.8	41.6
co129	MH-227	MH-21	591.57	590.96	128.3	150	0.6	0.481	0.46	1.1	0.8	1.41	47.5
co130	MH-186	MH-159	591.22	590.68	61.9	150	0.41	0.871	0.06	0.8	0.8	0.8	24.6
co131	MH-5	MH-7	589.53	589.09	75.9	150	0.6	0.577	0.36	1.6	1.49	1.76	42.1
co132	MH-159	MH-5	590.68	590.22	46.9	150	0.67	0.982	0.27	0.8	0.8	0.8	32.4
co133	MH-232	MH-5	589.71	589.53	140.8	150	0.2	0.133	0.04	1.1	0.8	1.49	30.9
co134	MH-206	MH-207	598.26	597.56	108.8	150	0.6	0.648	0.3	1.9	0.8	3.07	36.2
co135	MH-134	MH-150	601.31	600.86	45.1	150	0.64	1	0.22	1	1.22	0.8	28.8
co136	MH-150	MH-151	600.78	600.38	40.2	150	0.67	1	0.26	0.8	0.88	0.8	31.6
co137	MH-211	MH-212	603.25	602.3	95.1	150	0.56	1	0.14	1.1	1.5	0.8	22.9
co138	MH-156	MH-218	603.89	604.89	100.6	150	0.7	1	0.3	1.4	0.8	2.07	34
co139	MH-16	MH-179	602.14	602.43	29	150	0.43	1	0.06	0.8	0.8	0.85	14.8
co140	MH-28	MH-16	601.68	602	32	150	0.47	1	0.08	0.9	0.8	0.94	17
co141	MH-123	MH-28	600.54	600.69	30.5	150	0.6	0.518	0.42	1.6	1.46	1.79	44.2
co142	MH-192	MH-158	601.69	601	68.6	150	0.66	1	0.25	0.9	0.92	0.8	34
co143	MH-158	MH-28	601	600.69	46.3	150	0.6	0.665	0.29	1.3	0.8	1.79	41
co144	MH-180	MH-181	594.84	594.72	60.4	250	0.6	0.2	1.81	5.2	4.35	5.99	56.8

Pipe Report for Zone Salim Ali STP

Label	Start Node	Stop Node	Invert (Start) (m)	Invert (Stop) (m)	Length (Unified) (m)	Diameter (mm)	Velocity (Average) (m/s)	Slope (%)	Flow (MLD)	Average Conduit Cover (m)	Cover (Start) (m)	Cover (Stop) (m)	Depth (Average End) / Rise (%)
co145	MH-181	MH-204	594.67	594.51	84.7	300	0.6	0.187	1.91	5.7	5.99	5.38	52.9
co146	MH-204	MH-203	594.51	594.26	137.5	300	0.6	0.18	2.02	5.3	5.38	5.14	56.2
co147	MH-203	MH-11	594.26	594.1	90.5	300	0.6	0.172	2.2	4.8	5.14	4.56	64
co148	MH-217	MH-203	599.76	598.75	100.9	150	0.49	1	0.09	1	1.23	0.8	18.1
co149	MH-209	MH-197	599.7	599.3	93.6	150	0.33	0.428	0.06	0.8	0.8	0.8	25
co150	MH-197	MH-198	599.3	599.2	71.9	150	0.25	0.133	0.11	1.5	0.8	2.23	32.4
co151	MH-198	MH-226	599.2	598.28	125.9	150	0.6	0.734	0.26	1.9	2.23	1.55	32.7
co152	MH-201	MH-223	605.08	606.22	113.4	150	0.6	1	0.18	1.2	0.8	1.63	25.8
co153	MH-105	MH-106	598.53	598.77	23.8	150	0.61	1	0.19	0.8	0.8	0.87	30.3
co154	MH-106	MH-137	598.84	599.2	36.6	150	0.57	1	0.15	0.8	0.8	0.87	23.4

PUMPING STATION DESIGN

Pump Design Sheet for Golwadi PS-1

Pump Design Calculation for Sewage Water Pump Station:-

Flow (Volumetric)	246.4 MLD	=	246400 m ³ / day	=	10267 m ³ / hr
Head	28 Mtr.				

No. of working Pumps = 6

Flow for each pump = 1711.11 m³/hr
 = 0.47530864 m³/sec

Mass Flow Rate = ρV
 m = 499.074074 $\rho = 1050 \text{ kg/m}^3$

Fluid Power P = mgh
 P = 137085.667 Watt
 P = 137.085667 kW
 P = 183.760947 HP

Shaft Power P_s = hp+(hp*25%)
 = 229.701184

Motor Power P_m = $P_s * 1.25$
 = 287.12648 HP

Proposed motor for pump = 300 HP

Considering 50% standby, so 6W + 3S

Total no. of Pump-Motors = 9 Nos.

Provide submersible pumps, (6 W + 3 S) , of 1470.14 m³/hr & 28 m head capacity.
 3 Nos same capacity working pumps will fulfill the Avg. Flow Requirement.

AURANGABAD MUNICIPAL CORPORATION

UNDERGROUND SEWERAGE SYSTEM FOR AURANGABAD TOWN

Pump Design Sheet for 60 MLD SPS , BANEWADI

Peak Flow

Pump Design Calculation for Sewage Water Pump Station:-

Flow (Volumetric)	60 MLD	=	60000 m ³ / day	=	2500 m ³ / hr
Head	20 Mtr.				
No. of working Pumps		=	4		
Flow for each pump		=	625.00 m ³ /hr		
		=	0.17361111 m ³ /sec		
Mass Flow Rate		=	pV		
m		=	182.291667	p=1050kg/m ³	
Fluid Power P		=	mgh		
P		=	35765.625 Watt		
P		=	35.765625 kW		
P		=	47.9431971 HP		
Shaft Power P _s		=	hp+(hp*25%)		
		=	59.9289963	833.33 m ³ / hr	
Motor Power P _m		=	P _s *1.25		
			74.9112454 HP	24.97 HP	
Proposed motor for pump =			75 HP		

Considering 50% standby, so 4 W + 2 S

Provide submersible pumps, (4 W + 2 S) , of 625 m³/hr & 20 m head capacity.
2 No of same capacity pumps will fulfill the Avg flow requirement.

AURANGABAD MUNICIPAL CORPORATION

UNDERGROUND SEWERAGE SYSTEM FOR AURANGABAD

Pump Design Sheet for 13.5 MLD SPS , Padegaon

Peak Flow

Pump Design Calculation for Sewage Water Pump Station:-

Flow (Volumetric)	30.67 MLD	=	30670 m ³ / day	=	1277.9 m ³ / hr
Head	20 Mtr.				

No. of working Pumps = 2

Flow for each pump = 638.96 m³/hr
0.17748843 m³/sec

Mass Flow Rate = ρV
m = 186.362847 $\rho=1050\text{kg/m}^3$

Fluid Power P = mgh
P = 36564.3906 Watt
P = 36.5643906 kW
P = 49.0139285 HP

Shaft Power P_s = hp+(hp*25%)
= 61.2674106

Motor Power P_m = P_s*1.30
79.6476337 HP

Proposed motor for pump = **80 HP**

Considering 50% standby, so 2W +1S

**Provide submersible pumps,3 nos. (2 W + 1 S) , of 639 m³/hr & 20 m head capacity.
1 same capacity working pumps will fulfill the Avg. Flow Requirement.**

AURANGABAD MUNICIPAL CORPORATION

UNDERGROUND SEWERAGE SYSTEM FOR AURANGABAD

Pump Design Sheet for 4.5 MLD SPS , Siddarth Garden

Peak Flow

Pump Design Calculation for Sewage Water Pump Station:-

Flow (Volumetric)	9 MLD	=	9000 m ³ / day	=	375 m ³ / hr
Head	20 Mtr.				

No. of working Pumps = 2

Flow for each pump = 187.50 m³/hr
 = 0.052083333 m³/sec

Mass Flow Rate = ρV
 m = 54.6875 $\rho=1050\text{kg/m}^3$

Fluid Power P = mgh
 P = 10729.6875 Watt
 P = 10.7296875 kW
 P = 14.38295912 HP

Shaft Power P_s = hp+(hp*25%)
 = 17.97869889

Motor Power P_m = P_s*1.25
 = 23.37230856 HP

Proposed motor for pump = **25 HP**

Considering 50% standby, so 2 W + 1 S

**Provide submersible pumps, (2 W + 1 S) , of 190 m³/hr & 20 m head capacity.
 1 same capacity working pumps will fulfill the Avg. Flow Requirement.**

AURANGABAD MUNICIPAL COUNCIL

UNDERGROUND SEWERAGE SYSTEM FOR AURANGABAD TOWN

Pump Design Sheet for Cidco

Peak Flow

Pump Design Calculation for Sewage Water Pump Station:-

Flow (Volumetric) = **39.4 MLD** = 39400 m³/ day = 1641.7 m³/ hr
 Head = **20 Mtr.**

No. of working Pumps = 2

Flow for each pump = 820.83 m³/hr
 = 0.22800926 m³/sec

Mass Flow Rate = ρV
 m = 239.409722 $\rho=1050\text{kg/m}^3$

Fluid Power P = mgh
 P = 46972.1875 Watt
 P = 46.9721875 kW
 P = 62.9653988 HP

Shaft Power P_s = hp+(hp*25%)
 = 78.7067485

Motor Power P_m = P_s*1.25
 = 98.3834356 HP

Proposed motor for pump = **100 HP**

Considering 50% standby, so 2 W + 1 S

**Provide submersible pumps, (2 W + 1 S) , of 821 m³/hr & 20 m head capacity.
 1 same capacity pump will fulfill the Avg. flow condition.**

AURANGABAD MUNICIPAL CORPORATION
UNDERGROUND SEWERAGE SYSTEM FOR AURANGABAD

Pump Design Sheet for ZALTA

Peak Flow

Pump Design Calculation for Sewage Water Pump Station:-

Flow (Volumetric) **61.2 MLD** = 61200 m³/ day = 2550 m³/ hr
 Head **20 Mtr.**

No. of working Pumps = 4

Flow for each pump = 637.50 m³/hr
 = 0.177083333 m³/sec

Mass Flow Rate = ρV
 m = 185.9375 ρ=1050kg/m³

Fluid Power P = mgh
 P = 36480.9375 Watt
 P = 36.4809375 kW
 P = 48.90206099 HP

Shaft Power P_s = hp+(hp*25%)
 = 61.12757624

Motor Power P_m = P_s*1.25
 = 73.35309149 HP

Proposed motor for pump = **80 HP**

Considering 50% standby, so 4W + 2S

**Provide submersible pumps, 6 nos. (4 W + 2 S) , of 640 m³/hr & 20 m head capacity.
 2 Nos same capacity working pumps will fulfill the Avg. Flow Requirement.**

AURANGABAD MUNICIPAL COUNCIL

UNDERGROUND SEWERAGE SYSTEM FOR AURANGABAD TOWN

Pump Design Sheet for 12.98 MLD SPS , Ward 98

Peak Flow

Pump Design Calculation for Sewage Water Pump Station:-

Flow (Volumetric)	12.78 MLD	=	12780 m ³ / day	=	532.5 m ³ / hr
Head	25 Mtr.				

No. of working Pumps = 2

Flow for each pump = 266.25 m³/hr
 = 0.073958333 m³/sec

Mass Flow Rate = ρV
 m = 77.65625 $\rho=1050\text{kg/m}^3$

Fluid Power P = mgh
 P = 19045.19531 Watt
 P = 19.04519531 kW
 P = 25.52975243 HP

Shaft Power P_s = hp+(hp*25%)
 = 31.91219054

Motor Power P_m = P_s*1.25
 = 39.89023817 HP

Proposed motor for pump = **40 HP**

Considering 50% standby, so 2 W + 1 S

Provide submersible pumps, (2 W + 1 S) , of 267 m³/hr & 25 m head capacity.

1 No same capacity working pump will fulfill the Avg. Flow Requirement.

Aurangabad Municipal Corporation

Underground Sewerage Project for Aurangabad City

Design of Pumping Station

I. General Design Description

The location of the pumping station provided with vertical non-clog sewage pumps is at Banewadi. As per the design calculations the proposed dimensions and the types of various units of the pumping station in brief will be as follows

II. Design Calculations

A. Design Data

(i)	Location	=	Banewadi	
(ii)	Capacity of STP	=	30	MLD
(iii)	Average Flow (2030)	=	30	MLD
	Average Flow (2045)	=	30	MLD
	Peak Factor	=	2.25	
(iii)	Ground Level	=	546.55	m
(iv)	Invert level of pipe at node 84	=	543.84	m

Incoming Sewer Lines into the Junction Manhole			
Line No.	Size	Invert Level (m)	Capacity m ³ /sec
	1800	2.71	

(iii) Flows

Q avg. (2030)	=	0.347	m ³ /sec.
Q peak (2030)	=	0.781	m ³ /sec.
Q avg. (2045)	=	0.347	m ³ /sec.
Q peak (2045)	=	0.781	m ³ /sec.

B. Design Basis

- (i) Civil structures for Q peak (2045) conditions.
- (ii) Mech./Electrical plants for Q peak (2030) conditions.

C. Screen Chamber

It is proposed to provide three screen channels, Two will be mechanical screens and one will be manual screen.

(a) Design of screen chamber

$Q_{\text{peak (2045)}}$	=	0.781	$\text{m}^3/\text{sec.}$
Q_{full}	=	0.883	$\text{m}^3/\text{sec.}$
<i>(i) Dia. of connecting sewer</i>			
Assume velocity in the connecting sewer	=	0.600	$\text{m}^3/\text{sec.}$
\Area of pipe	=	1.302	m^2
Dia. of pipe, D =	=	1.287	m
	say	1.3	m
Velocity of flow in the pipe at full flow	=	0.665	m/sec
<i>(ii) Depth of flow (d) in the connecting sewer</i>			
Q/Q_{full}	=	0.88	
d/D	=	0.728	
d	=	0.9464	

(b) Coarse Screen Channel				
No. of Mechanical (Working) Screens	=		2 Nos	Mechanical
No. of Manual (Standby) Screens	=		1 Nos	manual
Total No. of Screens	=		3 Nos	
No. of Mechanical Screens	=		2 Nos	
Design Flow	=	Peak Flow		
	=		67.4784 MLD	
	=		18.744 m^3/hr	
	=		0.781 m^3/s	
	=			
Average Flow (Q_{av})	=		30.0 MLD	
	=		8.328 m^3/hr	
	=		0.347 m^3/s	
	=			
Design Peak Flow in each screen			<u>0.781 m^3/s</u>	
			2 Nos	
			0.3905 m^3/s	
Average Flow in each screen			<u>0.347 m^3/s</u>	
			2 Nos	
			0.1735 m^3/s	
Maximum Velocity through screen at Peak Flow			0.9 m/s	
Minimum Velocity through screen at Average Flow			0.6 m/s	
Clear area of opening through screen at Peak flow			<u>0.3905 m^3/s</u>	
			0.9 m/s	

		0.434 m ²
Clear area of opening through screen at Average flow		$\frac{0.1735 \text{ m}^3/\text{s}}{0.6 \text{ m/s}}$
		0.28917 m ²
Considering Maximum area of opening through screen		0.434 m ²
Clear spacing of bars		20 mm
Thickness of bars		6 mm
Gross area of screen	$0.434 \times (20+6) / 20$	0.564055556 m ²
Assuming Depth of Screen Channel		0.95 m
Gross Width of Screen		$\frac{0.564055556}{0.95}$
		0.594 m
No. of Bars	(Gross Width of Screen / Center to Center Spacing of Bars) - 1 $(0.564 / ((20 + 6) / 1000)) - 1$	
		21.84 Nos
Say		22.00 Nos
Width of screen provided	=	(Number of Bars+1) x Clear Spacing '+ (Number of Bars x Bar Thickness)
	=	$(22+1) \times 20 + (22 \times 6)$
		592 mm
Width of side Frame of screen on each side	=	50 mm
Total width of screen channel	=	692 mm
Say	=	720 mm
Height of blind plate at bottom of screen provided	=	50 mm
Liquid depth of screen channel provided	=	1000 mm
Length of screen channel provided	=	5000 mm
Freeboard provided	=	300 mm
Velocity in channel at Average flow	=	Average Flow / Cross Sectional Area of Screen Channel $0.347 / (0.72 \times 1)$
	=	0.482 m/sec
		0.3 m/sec ok

(c) Head Loss across Screen

Head Loss across Screen	=	$0.0728 (V^2 - v^2)$
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen
	=	0.196
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel
	=	0.542
Head Loss across Screen at Peak Flow	=	-0.019

Head Loss across Screen at 50% Clogged Condition

Velocity through Screen at 50% Clogged Condition at Peak Flow = 0.392

Head Loss across screen at 50% Clogged Condition at Peak Flow = -0.010

(d) Coarse Screen Channel: Manual

No. of Manual Screen = 1 No.

Design Flow = 1/2 Peak Flow
 = 33.739 MLD
 = 1405.800 m³/hr
 = 0.391 m³/sec

Average Flow (Q_{av}) = 14.990 MLD
 = 624.600 m³/hr
 = 0.174 m³/sec

Design Flow in each Screen = $\frac{0.391}{1}$ m³/sec
 No.

= 0.391 m³/sec

Average Flow in each Screen = $\frac{0.174}{1}$ m³/sec
 No.

= 0.174 m³/sec

Velocity through Screen at Peak Flow = 1.2 m/sec

Velocity through Screen at Average Flow = 0.6 m/sec

Clear Area of Opening through Screen for Peak Flow = $\frac{0.391}{1.2}$ m³/sec
 m/sec

= 0.325 m²

Clear Area of Opening through Screen for Average Flow = $\frac{0.174}{0.6}$ m³/sec
 m/sec

= 0.289 m²

Considering maximum Area of Opening through Screen = 0.325 m²

Clear Spacing of Bars = 20 mm

Thickness of Bars = 6 mm

Gross Area of Screen = $0.325 \times (20+6) / 20$

= 0.423 m²

Assuming Depth of Screen Channel	=	0.950	m
Gross Width of Screen	=	0.423 / 0.95	
	=	0.445	m
No. of Bars	=	(Gross Width of Screen / Center to Center Spacing of Bars) - 1	
	=	(0.445 / (20 + 6) / 1000) - 1	
Say	=	16.127	Nos.
	=	17	Nos.
Width of Screen provided	=	(Number of Bars+1) x Clear Spacing + (Number of Bars x Bar Thickness)	
	=	(17+1) x 20 + (17 x 6)	
	=	462	mm
Width of Side Frame of Screen on each Side	=	50	mm
Total Width of Screen Channel	=	562	mm
Width of Screen Channel provided, Say	=	600	mm
Liquid Depth of Screen Channel provided	=	950	mm
Length of Screen Channel	=	5000	mm
Freeboard Provided	=	300	mm
Velocity in Channel at Average Flow	=	Average Flow / Cross Sectional Area of Screen Channel	
	=	0.174 / (0.6 x 0.95)	
	=	0.304	m/sec
	≥	0.300	m/sec
	=	OK	

(e) Head Loss across Screen

Head Loss across Screen	=	0.0728 (V ² - v ²)	
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen	
	=	1.069	
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel	
	=	0.685	
Head Loss across Screen at Peak Flow	=	0.049	
Head Loss across Screen at 50% Clogged Condition			
Velocity through Screen at 50% Clogged Condition at Peak Flow	=	2.137	

Head Loss across screen at 50% Clogged Condition at Peak Flow	=	0.298		
E Raw Sewage Sump (Wet Well) of Raw Sewage Pumping Station				
No. of Units	=	1	No.	
Average Flow (Qav)	=	30.0	MLD	
		1249.20	m3/hr	
		0.347	m3/s	
Design Flow	=	Peak Flow		
		67.5	MLD	
		2810.70	m3/hr	
		0.781	m3/s	
Hydraulic Retention time (HRT) of Peak flow	=	5	Min	
Vol. Required	=	234.300	M3	
Hydraulic Retention time (HRT) of Average flow	=	Volume/Avg. Flow		
		11.25	Min	
	<	30	Min	OK
HRT at Peak flow (Designed flow)	=	30	Sec	
Volume of Receiving chamber (Inside Wet Well)	=	23.4300	M3	
Total Volume of Wet Well	=	257.7300	m3	
Liquid Depth	=	2.5	m	
Plan Area of wet well	=	103.092	m2	
Diameter of Sump Required	=	11.46	m	
Diameter of Sump Provided	=	11.5	m	
Freeboard Provided	=	0.5	m	
So Volume of Sump Provided	=	259.67	m3	
G Hydraulic Levels				
NGL at Sump	=	546.550	m	
FGL at Sump	=	546.550	m	
Plinth Level at sump	=	548.550	m	
Invert level of pipe at node 84	=	543.840	m	
Dia of Sewer Line	=	1.800	m	
Maxi. Water level. In Screen Chamber	=	543.540	m	
Invert level. In Screen Chamber	=	542.540	m	
Maxi. Water level. in WET Well (MWL)	=	541.940	m	0.6 m
Lowest Draw Down Level in WET Well (LDL)	=	539.440	m	
Mini. Submergance for pump	=	0.750	m	
Bottom Level in Wet Well	=	538.690	m	
Total Depth for Screen Below FGL	=	4.010	m	
Total Depth for Wet Well Below FGL	=	7.110	m	
Total Depth of Wet Well	=	9.110	m	

Aurangabad Municipal Corporation

Underground Sewerage Project for Aurangabad City

Design of Pumping Station

I. General Design Description

The location of the pumping station provided with vertical non-clog sewage pumps is at Cidco. As per the design calculations the proposed dimensions and the types of various units of the pumping station in brief will be as follows

II. Design Calculations

A. Design Data

(i)	Location	=	Cidco (Airport)	
(ii)	Capacity of Pumping Station	=	18.5	MLD
(iii)	Average Flow (2030)	=	18.5	MLD
	Average Flow (2045)	=	30.09	MLD
	Peak Factor	=	2.25	
(iii)	Ground Level	=	571.5	m
(iv)	Invert level of pipe at OF2	=	569.61	m

Incoming Sewer Lines into the Junction Manhole			
Line No.	Size	Invert Level (m)	Capacity m ³ /sec
OF-1	1000	1.89	

(iii) Flows

Q avg. (2030)	=	0.214	m ³ /sec.
Q peak (2030)	=	0.482	m ³ /sec.
Q avg. (2045)	=	0.348	m ³ /sec.
Q peak (2045)	=	0.784	m ³ /sec.

B. Design Basis

- (i) Civil structures for Q peak (2045) conditions.
- (ii) Mech./Electrical plants for Q peak (2030) conditions.

C. Screen Chamber

It is proposed to provide three screen channels, Two will be mechanical screens and one will be manual screen.

(a) Design of screen chamber

$Q_{\text{peak (2045)}}$ = 0.784 $\text{m}^3/\text{sec.}$

Q_{full} = 0.786 $\text{m}^3/\text{sec.}$

(i) Dia. of connecting sewer

Velocity in the connecting sewer = 1.230 $\text{m}^3/\text{sec.}$

Area of pipe = 0.637 m^2

Dia. of pipe, D = 0.901 m
say 1 m

Slope of Sewer Pipe = 0.13

Velocity of flow in the pipe at full flow= 1.00 m/sec

(ii) Depth of flow (d) in the connecting sewer

Q/Q_{full} = 1
 d/D = 1.00
 d = 1

(iii) Size of screen chamber

Assume depth of flow in the screen chamber = 1 m
(i.e. same as that in the incoming sewer)

(b) Coarse Screen Channel

No. of Mechanical (Working) Screens = 2 Nos Mechanical
No. of Manual (Standby) Screens = 1 Nos manual
Total No. of Screens = 3 Nos

No. of Mechanical Screens = 2 Nos
Design Flow = Peak Flow
= 67.74 MLD
= 18.82 m^3/hr
= 0.78 m^3/s

Average Flow (Q_{av}) = 30.07 MLD
= 8.35 m^3/hr
= 0.35 m^3/s

Design Peak Flow in each screen = $\frac{0.784}{2}$ m^3/s
= 0.392 m^3/s

Average Flow in each screen = $\frac{0.348}{2}$ m^3/s
= 0.174 m^3/s

Maximum Velocity through screen at Peak Flow		0.9	m/s
Minimum Velocity through screen at Average Flow		0.6	m/s
Clear area of opening through screen at Peak flow		0.392	m ³ /s
		0.9	m/s
		0.436	m ²
Clear area of opening through screen at Average flow		0.174	m ³ /s
		0.6	m/s
		0.29	m ²
Considering Maximum area of opening through screen		0.436	m ²
Clear spacing of bars		20	mm
Thickness of bars		6	mm
Gross area of screen		0.436 x (20+6) / 20	
		0.566	m ²
Assuming Depth of Screen Channel		1	m
Gross Width of Screen		0.566	
		1	
		0.566	m
No. of Bars		(Gross Width of Screen / Center to Center Spacing (0.566 / ((20 + 6)/1000)) - 1	
			20.78 Nos
Say			21.00 Nos
Width of screen provided	=	(Number of Bars+1) x Clear Spacing '+ (Number of Bars x Bar Thickness)	
	=	(21+1) x 20 + (21 x 6)	566 mm
Width of side Frame of screen on each side	=		50 mm
Total width of screen channel	=		666 mm
Say	=		700 mm
Height of blind plate at bottom of screen provided	=		50 mm
Liquid depth of screen channel provided	=		1050 mm
Length of screen channel provided	=		5000 mm
Freeboard provided	=		300 mm
Velocity in channel at Average flow	=	Average Flow / Cross Sectional Area of Screen 0.348 / (0.7 x 1.05)	
	=		0.473 m/sec
	=		0.3 m/sec ok

(c) Head Loss across Screen

Head Loss across Screen	=	0.0728 (V ² - v ²)
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen
	=	0.181
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel

= 0.533

Head Loss across Screen at Peak Flow = -0.018

Head Loss across Screen at 50% Clogged Condition

Velocity through Screen at 50% Clogged Condition at Peak Flow = 0.362

Head Loss across screen at 50% Clogged Condition at Peak Flow = -0.011

(d) Coarse Screen Channel: Manual

No. of Manual Screen = 1 No.

Design Flow = 1/2 Peak Flow
= 33.869 MLD
= 1411.200 m³/hr
= 0.392 m³/sec

Average Flow (Q_{av}) = 15.034 MLD
= 626.400 m³/hr
= 0.174 m³/sec

Design Flow in each Screen = 0.392 m³/sec
1 No.

= 0.392 m³/sec

Average Flow in each Screen = 0.174 m³/sec
1 No.

= 0.174 m³/sec

Velocity through Screen at Peak Flow = 1.2 m/sec

Velocity through Screen at Average Flow = 0.6 m/sec

Clear Area of Opening through Screen for Peak Flow = 0.392 m³/sec
1.2 m/sec

= 0.327 m²

Clear Area of Opening through Screen for Average Flow = 0.174 m³/sec
0.6 m/sec

= 0.290 m²

Considering maximum Area of Opening through Screen = 0.327 m²

Clear Spacing of Bars = 20 mm

Thickness of Bars = 6 mm

Gross Area of Screen	=	$0.327 \times (20+6) / 20$	
	=	0.425	m ²
Assuming Depth of Screen Channel	=	1.000	m
Gross Width of Screen	=	$0.4247 / 1$	
	=	0.425	m
No. of Bars	=	(Gross Width of Screen / Center to Center Spacing of Bars) -	
	=	$(0.425 / ((20 + 6) / 1000)) - 1$	
	=	15.333	Nos.
Say	=	16	Nos.
Width of Screen provided	=	(Number of Bars+1) x Clear Spacing + (Number of Bars x Bar Thickness)	
	=	$(16+1) \times 20 + (16 \times 6)$	
	=	436	mm
Width of Side Frame of Screen on each Side	=	50	mm
Total Width of Screen Channel	=	536	mm
Width of Screen Channel provided, Say	=	550	mm
Liquid Depth of Screen Channel provided	=	1000	mm
Length of Screen Channel	=	5000	mm
Freeboard Provided	=	300	mm
Velocity in Channel at Average Flow	=	Average Flow / Cross Sectional Area of Screen Channel	
	=	$0.174 / (0.55 \times 1)$	
	=	0.316	m/sec
	≥	0.300	m/sec
	=	OK	

(e) Head Loss across Screen

Head Loss across Screen	=	$0.0728 (V^2 - v^2)$
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen
	=	1.132
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel
	=	0.713
Head Loss across Screen at Peak Flow	=	0.056

Head Loss across Screen at 50% Clogged Condition

Velocity through Screen at 50% Clogged Condition at Peak Flow = 2.265

Head Loss across screen at 50% Clogged Condition at Peak Flow = 0.336

E Raw Sewage Sump (Wet Well) of Raw Sewage Pumping Station

No. of Units = 1 No.
 Average Flow (Qav) = 30.07 MLD
 1252.80 m3/hr
 0.348 m3/s

Design Flow = Peak Flow
 67.7376 MLD
 2822.40 m3/hr
 0.784 m3/s

Hydraulic Retention time (HRT) of Peak flow = 5 Min
 Vol. Required = 235.2 M3

Hydraulic Retention time (HRT) of Average flow = Volume/Avg. Flow
 11.26436782 Min
 < 30 Min **OK**

HRT at Peak flow (Designed flow) = 30 Sec
 Volume of Receiving chamber (Inside Wet Well) = 23.52 M3

Total Volume of Wet Well = 258.72 m3

Liquid Depth = 2.5 m

Plan Area of wet well = 103.488 m2
 Diameter of Sump Required = 11.48 m
 Diameter of Sump Provided = 11.50 m
 Freeboard Provided = 0.5 m

So Volume of Sump Provided = 259.67 m3

G Hydraulic Levels

NGL at Sump = 571.500 m
 FGL at Sump = 571.500 m
 Plinth Level at sump = 573.500 m
 Invert level of pipe CO 516 = 569.610 m
 Dia of Sewer Line = 1.000 m
 Maxi. Water level. In Screen Chamber = 569.310 m
 Invert level. In Screen Chamber = 568.260 m
 Maxi. Water level. in WET Well (MWL) = 567.660 m **0.6 m**

Lowest Draw Down Level in WET Well (LDL) = 565.160 m
 Mini. Submergance for pump = 0.750 m
 Bottom Level in Wet Well = 564.410 m

Total Depth for Screen Below FGL	=	3.240	m
Total Depth for Wet Well Below FGL	=	6.340	m
Total Depth of Wet Well	=	8.340	m

Aurangabad Municipal Corporation

Underground Sewerage Project for Aurangabad City

Design of Pumping Station

I. General Design Description

The location of the pumping station provided with vertical non-clog sewage pumps is at Golwadi. As per the design calculations the proposed dimensions and the types of various units of the pumping station in brief will be as follows

II. Design Calculations

A. Design Data

(i)	Location	=	Golwadi	
(ii)	Capacity of Pumping Station	=	136.5	MLD
(iii)	Average Flow (2030)	=	136.5	MLD
	Average Flow (2045)	=	186.5	MLD
	Peak Factor	=	2.25	
(iii)	Ground Level	=	535	m
(iv)	Invert level of pipe at node 84	=	530.54	m

Incoming Sewer Lines into the Junction Manhole			
Line No.	Size	Invert Level (m)	Capacity m ³ /sec
CO-516	2000	4.46	

(iii)	Flows			
	Q avg. (2030)	=	1.58	m3/sec.
	Q peak (2030)	=	3.555	m3/sec.
	Q avg. (2045)	=	2.159	m3/sec.
	Q peak (2045)	=	4.857	m3/sec.

B. Design Basis

- (i) Civil structures for Q peak (2045) conditions.
- (ii) Mech./Electrical plants for Q peak (2030) conditions.

C. Screen Chamber

It is proposed to provide three screen channels, Two will be mechanical screens and one will be manual screen.

(a) Design of screen chamber

$Q_{\text{peak (2045)}}$ = 4.857 $\text{m}^3/\text{sec.}$

Q_{full} = 4.932 $\text{m}^3/\text{sec.}$

(i) Dia. of connecting sewer

Velocity in the connecting sewer = 1.990 $\text{m}^3/\text{sec.}$

Area of pipe = 2.441 m^2

Dia. of pipe, D = 1.763 m

= say 2 m

Slope of Sewer Pipe = 0.133

Velocity of flow in the pipe at full flow = 1.57 m/sec

(ii) Depth of flow (d) in the connecting sewer

Q/Q_{full} = 0.98

d/D = 0.802

d = 1.604

(iii) Size of screen chamber

Assume depth of flow in the screen chamber = 1.6 m
(i.e. same as that in the incoming sewer)

(b)

Coarse Screen Channel

No. of Mechanical (Working) Screens = 2 Nos Mechanical

No. of Manual (Standby) Screens = 1 Nos manual

Total No. of Screens = 3 Nos

No. of Mechanical Screens = 2 Nos

Design Flow = Peak Flow
= 419.6448 MLD
= 116.568 m^3/hr
= 4.857 m^3/s

Average Flow (Q_{av}) = 186.5376 MLD
= 51.816 m^3/hr
= 2.159 m^3/s

Design Peak Flow in each screen = 4.857 m^3/s
2 Nos

2.4285 m^3/s

Average Flow in each screen = 2.159 m^3/s
2 Nos

1.0795 m^3/s

Maximum Velocity through screen at Peak Flow 0.9 m/s

Minimum Velocity through screen at Average Flow 0.6 m/s

Clear area of opening through screen at Peak flow		<u><u>2.4285</u></u> m ³ /s
		0.9 m/s
		2.698 m ²
Clear area of opening through screen at Average flow		<u><u>1.0795</u></u> m ³ /s
		0.6 m/s
		1.799166667 m ²
Considering Maximum area of opening through screen		2.698 m ²
Clear spacing of bars		20 mm
Thickness of bars		6 mm
Gross area of screen	$2.698 \times (20+6) / 20$	3.507833333 m ²
Assuming Depth of Screen Channel		2.5 m
Gross Width of Screen		<u><u>3.507833333</u></u>
		2.5
		1.403 m
No. of Bars	$(\text{Gross Width of Screen} / \text{Center to Center Spacing of } (3.508 / ((20 + 6) / 1000)) - 1$	52.97 Nos
Say		53.00 Nos
Width of screen provided	=	(Number of Bars+1) x Clear Spacing '+ (Number of Bars x Bar Thickness) (53+1) x 20 + (53 x 6)
	=	1398 mm
Width of side Frame of screen on each side	=	50 mm
Total width of screen channel	=	1498 mm
Say	=	1500 mm
Height of blind plate at bottom of screen provided	=	50 mm
Liquid depth of screen channel provided	=	2550 mm
Length of screen channel provided	=	5000 mm
Freeboard provided	=	300 mm
Velocity in channel at Average flow	=	Average Flow / Cross Sectional Area of Screen $2.159 / (1.5 \times 2.55)$
	=	0.564 m/sec
	=	0.3 m/sec ok

(c) Head Loss across Screen

Head Loss across Screen	=	$0.0728 (V^2 - v^2)$
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen
	=	1.046
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel
	=	0.635
Head Loss across Screen at Peak Flow	=	0.050

Head Loss across Screen at 50% Clogged Condition

Velocity through Screen at 50% Clogged Condition at Peak Flow = 2.092

Head Loss across screen at 50% Clogged Condition at Peak Flow = 0.289

(d) Coarse Screen Channel: Manual

No. of Manual Screen	=	1	No.
Design Flow	=	1/2 Peak Flow	
	=	209.822	MLD
	=	8742.600	m ³ /hr
	=	2.429	m ³ /sec
Average Flow (Q _{av})	=	93.269	MLD
	=	3886.200	m ³ /hr
	=	1.080	m ³ /sec
Design Flow in each Screen	=	<u><u>2.429</u></u>	m ³ /sec
		1	No.
	=	2.429	m ³ /sec
Average Flow in each Screen	=	<u><u>1.080</u></u>	m ³ /sec
		1	No.
	=	1.080	m ³ /sec
Velocity through Screen at Peak Flow	=	1.2	m/sec
Velocity through Screen at Average Flow	=	0.6	m/sec
Clear Area of Opening through Screen for Peak Flow	=	<u><u>2.429</u></u>	m ³ /sec
		1.2	m/sec
	=	2.024	m ²
Clear Area of Opening through Screen for Average Flow	=	<u><u>1.080</u></u>	m ³ /sec
		0.6	m/sec
	=	1.799	m ²
Considering maximum Area of Opening through Screen	=	2.024	m ²
Clear Spacing of Bars	=	20	mm
Thickness of Bars	=	6	mm
Gross Area of Screen	=	2.024 x (20+6) / 20	
	=	2.631	m ²

Assuming Depth of Screen Channel	=	2.500	m
Gross Width of Screen	=	2.6309 / 2.5	
	=	1.052	m
No. of Bars	=	(Gross Width of Screen / Center to Center Spacing of Bars) - 1	
	=	(1.052 / ((20 + 6)/1000)) - 1	
	=	39.475	Nos.
Say	=	40	Nos.
Width of Screen provided	=	(Number of Bars+1) x Clear Spacing + (Number of Bars x Bar Thickness)	
	=	(40+1) x 20 + (40 x 6)	
	=	1060	mm
Width of Side Frame of Screen on each Side	=	50	mm
Total Width of Screen Channel	=	1160	mm
Width of Screen Channel provided, Say	=	1200	mm
Liquid Depth of Screen Channel provided	=	2500	mm
Length of Screen Channel	=	5000	mm
Freeboard Provided	=	300	mm
Velocity in Channel at Average Flow	=	Average Flow / Cross Sectional Area of Screen Channel	
	=	1.08 / (1.2 x 2.5)	
	=	0.360	m/sec
	≥	0.300	m/sec
	=	OK	

(e) Head Loss across Screen

Head Loss across Screen	=	0.0728 (V ² - v ²)	
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen	
	=	1.148	
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel	
	=	0.810	
Head Loss across Screen at Peak Flow	=	0.048	
Head Loss across Screen at 50% Clogged Condition			
Velocity through Screen at 50% Clogged Condition at Peak Flow	=	2.296	

	Head Loss across screen at 50% Clogged Condition at Peak Flow	=	0.336	
E	Raw Sewage Sump (Wet Well) of Raw Sewage Pumping Station			
	No. of Units	=	1	No.
	Average Flow (Qav)	=	186.54	MLD
			7772.40	m3/hr
			2.159	m3/s
	Design Flow	=	Peak Flow	
			419.6448	MLD
			17485.20	m3/hr
			4.857	m3/s
	Hydraulic Retention time (HRT) of Peak flow	=	5	Min
	Vol. Required	=	1457.1	M3
	Hydraulic Retention time (HRT) of Average flow	=	Volume/Avg. Flow	
			11.24826308	Min
		<	30	Min
	HRT at Peak flow (Designed flow)	=	30	Sec
	Volume of Receiving chamber (Inside Wet Well)	=	145.71	M3
	Total Volume of Wet Well	=	1602.81	m3
	Liquid Depth	=	3	m
	Plan Area of wet well	=	534.27	m2
	Diameter of Sump Required	=	26.09	m
	Diameter of Sump Provided	=	26.00	m
	Freeboard Provided	=	0.5	m
	So Volume of Sump Provided	=	1592.79	m3
G	Hydraulic Levels			
	NGL at Sump	=	535.000	m
	FGL at Sump	=	536.000	m
	Plinth Level at sump	=	538.000	m
	Invert level of pipe CO 516	=	530.540	m
	Dia of Sewer Line	=	2.000	m
	Maxi. Water level. In Screen Chamber	=	530.240	m
	Invert level. In Screen Chamber	=	527.690	m
	Maxi. Water level. in WET Well (MWL)	=	527.090	m
	Lowest Draw Down Level in WET Well (LDL)	=	524.090	m
	Mini. Submergance for pump	=	0.750	m
	Bottom Level in Wet Well	=	523.340	m
	Total Depth for Screen Below FGL	=	8.310	m
	Total Depth for Wet Well Below FGL	=	11.910	m
	Total Depth of Wet Well	=	13.910	m

OK

0.6 m

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Design of Pumping Station

I. General Design Description

The location of the pumping station provided with vertical non-clog sewage pumps is at Padegaon. As per the design calculations the proposed dimensions and the types of various units of the pumping station in brief will be as follows

II. Design Calculations

A. Design Data

(i)	Location	=	Padegaon	
(ii)	Capacity of Pumping Station	=	10.5	MLD
(iii)	Average Flow (2030)	=	10.5	MLD
	Average Flow (2045)	=	14.09	MLD
	Peak Factor	=	2.25	
(iii)	Ground Level	=	549.85	m
(iv)	Invert level of pipe at node 84	=	545.36	m

Incoming Sewer Lines into the Junction Manhole			
Line No.	Size	Invert Level (m)	Capacity m ³ /sec
CO-2	700	4.49	

(iii)	Flows			
	Q avg. (2030)	=	0.122	m ³ /sec.
	Q peak (2030)	=	0.273	m ³ /sec.
	Q avg. (2045)	=	0.163	m ³ /sec.
	Q peak (2045)	=	0.367	m ³ /sec.

B. Design Basis

- Civil structures for Q peak (2045) conditions.
- Mech./Electrical plants for Q peak (2030) conditions.

C. Pumps

It is proposed to provide 6 Vertical Submersible non clog pumps each of 0.2 m³/sec. capacity . Out of the 6 pumps maximum 4 pumps shall be working and two pumps will remain standby. During Average flow only two pumps will be working.

D. Screen Chamber

It is proposed to provide three screen channels, Two will be mechanical screens and one will be manual screen.

(a) Design of screen chamber

$Q_{\text{peak (2045)}}$ = 0.367 $\text{m}^3/\text{sec.}$

Q_{full} = 0.300 $\text{m}^3/\text{sec.}$

(i) Dia. of connecting sewer

Velocity in the connecting sewer = 0.990 $\text{m}^3/\text{sec.}$

Area of pipe = 0.371 m^2

Dia. of pipe, D = 0.687 m
say 0.7 m

Slope of Sewer Pipe 0.133

Velocity of flow in the pipe at full flow= 0.78 m/sec

(ii) Depth of flow (d) in the connecting sewer

Q/Q_{full} = 1.22

d/D = 1

d = 0.7

(iii) Size of screen chamber

Assume depth of flow in the screen chamber = 0.7 m
(i.e. same as that in the incoming sewer)

(b) Coarse Screen Channel

No. of Mechanical (Working) Screens = 2 Nos Mechanical

No. of Manual (Standby) Screens = 1 Nos manual

Total No. of Screens = 3 Nos

No. of Mechanical Screens = 2 Nos

Design Flow = Peak Flow

31.7088 MLD

8.808 m^3/hr

0.367 m^3/s

Average Flow (Q_{av}) = 14.0832 MLD

3.912 m^3/hr

0.163 m^3/s

Design Peak Flow in each screen 0.367 m^3/s
2 Nos

0.1835 m^3/s

Average Flow in each screen 0.163 m^3/s
2 Nos

0.0815 m^3/s

Maximum Velocity through screen at Peak Flow 0.9 m/s

Minimum Velocity through screen at Average Flow 0.6 m/s

Clear area of opening through screen at Peak flow		<u>0.1835 m³/s</u>	
		0.9 m/s	
		0.204 m ²	
Clear area of opening through screen at Average flow		<u>0.0815 m³/s</u>	
		0.6 m/s	
		0.135833333 m ²	
Considering Maximum area of opening through screen		0.204 m ²	
Clear spacing of bars		20 mm	
Thickness of bars		6 mm	
Gross area of screen	0.204 x (20+6) / 20	0.265055556 m ²	
Assuming Depth of Screen Channel		0.7 m	
Gross Width of Screen		<u>0.265055556</u>	
		0.7	
		0.379 m	
No. of Bars	(Gross Width of Screen / Center to Center Spacing of (0.265 / ((20 + 6) / 1000)) - 1	13.56 Nos	
Say		14.00 Nos	
Width of screen provided	= (Number of Bars+1) x Clear Spacing + (Number of Bars x Bar Thickness)		
	= (14+1) x 20 + (14 x 6)	384 mm	
Width of side Frame of screen on each side	=	50 mm	
Total width of screen channel	=	484 mm	
Say	=	500 mm	
Height of blind plate at bottom of screen provided	=	50 mm	
Liquid depth of screen channel provided	=	750 mm	
Length of screen channel provided	=	5000 mm	
Freeboard provided	=	300 mm	
Velocity in channel at Average flow	=	Average Flow / Cross Sectional Area of Screen Channel	
		0.163 / (0.5 x 0.75)	
		0.435 m/sec	
		0.3 m/sec	ok

(c) Head Loss across Screen

Head Loss across Screen	=	0.0728 (V ² - v ²)
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen
	=	0.081
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel
	=	0.489
Head Loss across Screen at Peak Flow	=	-0.017

Head Loss across Screen at 50% Clogged Condition

Velocity through Screen at 50% Clogged Condition at Peak Flow = 0.161

Head Loss across screen at 50% Clogged Condition at Peak Flow = -0.016

(d) Coarse Screen Channel: Manual

No. of Manual Screen = 1 No.

Design Flow = 1/2 Peak Flow
 = 15.854 MLD
 = 660.600 m³/hr
 = 0.184 m³/sec

Average Flow (Q_{av}) = 14.083 MLD
 = 586.800 m³/hr
 = 0.163 m³/sec

Design Flow in each Screen = $\frac{0.184}{1}$ m³/sec
 No.

= 0.184 m³/sec

Average Flow in each Screen = $\frac{0.163}{1}$ m³/sec
 No.

= 0.163 m³/sec

Velocity through Screen at Peak Flow = 1.2 m/sec

Velocity through Screen at Average Flow = 0.6 m/sec

Clear Area of Opening through Screen for Peak Flow = $\frac{0.184}{1.2}$ m³/sec
 m/sec

= 0.153 m²

Clear Area of Opening through Screen for Average Flow = $\frac{0.163}{0.6}$ m³/sec
 m/sec

= 0.272 m²

Considering maximum Area of Opening through Screen = 0.272 m²

Clear Spacing of Bars = 20 mm

Thickness of Bars = 6 mm

Gross Area of Screen = $0.272 \times (20+6) / 20$

= 0.353 m²

Assuming Depth of Screen Channel = 0.700 m

Gross Width of Screen = $0.3532 / 0.7$

= 0.505 m

No. of Bars	=	(Gross Width of Screen / Center to Center Spacing of Bars) - 1	
	=	(0.505 / ((20 + 6) / 1000)) - 1	
Say	=	18.405	Nos.
	=	19	Nos.
Width of Screen provided	=	(Number of Bars+1) x Clear Spacing + (Number of Bars x Bar Thickness)	
	=	(19+1) x 20 + (19 x 6)	
	=	514	mm
Width of Side Frame of Screen on each Side	=	50	mm
Total Width of Screen Channel	=	614	mm
Width of Screen Channel provided, Say	=	650	mm
Liquid Depth of Screen Channel provided	=	700	mm
Length of Screen Channel	=	5000	mm
Freeboard Provided	=	300	mm
Velocity in Channel at Average Flow	=	Average Flow / Cross Sectional Area of Screen Channel	
	=	0.163 / (0.65 x 0.7)	
	=	0.358	m/sec
	≥	0.300	m/sec
	=	OK	

(e) Head Loss across Screen

Head Loss across Screen	=	0.0728 (V ² - v ²)	
V = Velocity through Screen at Peak Flow	=	Peak Flow through Screen Channel / Clear Area of Opening through Screen	
	=	0.620	
v = Velocity in approach Channel at Peak Flow	=	Peak Flow through Screen Channel / Cross Sectional Area of Screen Channel	
	=	0.403	
Head Loss across Screen at Peak Flow	=	0.016	
Head Loss across Screen at 50% Clogged Condition			
Velocity through Screen at 50% Clogged Condition at Peak Flow	=	1.239	
Head Loss across screen at 50% Clogged Condition at Peak Flow	=	0.100	

E Raw Sewage Sump (Wet Well) of Raw Sewage Pumping Station

No. of Units	=	1	No.
Average Flow (Q _{av})	=	14.08	MLD

		586.80	m3/hr	
		0.163	m3/s	
Design Flow	=	Peak Flow		
		31.7088	MLD	
		1321.20	m3/hr	
		0.367	m3/s	
Hydraulic Retention time (HRT) of Peak flow	=	5	Min	
Vol. Required	=	110.1	M3	
Hydraulic Retention time (HRT) of Average flow	=	Volume/Avg. Flow		
		11.25766871	Min	
	<	30	Min	OK
HRT at Peak flow (Designed flow)	=	30	Sec	
Volume of Receiving chamber (Inside Wet Well)	=	11.01	M3	
Total Volume of Wet Well	=	121.11	m3	
Liquid Depth	=	2.5	m	
Plan Area of wet well	=	48.444	m2	
Diameter of Sump Required	=	7.86	m	
Diameter of Sump Provided	=	7.50	m	
Freeboard Provided	=	0.5	m	
So Volume of Sump Provided	=	110.45	m3	
G Hydraulic Levels				
NGL at Sump	=	549.850	m	
FGL at Sump	=	549.850	m	
Plinth Level at sump	=	551.850	m	
Invert level of pipe CO 516	=	545.360	m	
Dia of Sewer Line	=	0.700	m	
Maxi. Water level. In Screen Chamber	=	545.710	m	
Invert level. In Screen Chamber	=	544.960	m	
Maxi. Water level. in WET Well (MWL)	=	544.360	m	0.6 m
Lowest Draw Down Level in WET Well (LDL)	=	541.860	m	
Mini. Submergance for pump	=	0.750	m	
Bottom Level in Wet Well	=	541.110	m	
Total Depth for Screen Below FGL	=	4.890	m	
Total Depth for Wet Well Below FGL	=	7.990	m	
Total Depth of Wet Well	=	9.990	m	

Aurangabad Municipal Corporation

Underground Sewerage Project for Aurangabad City

Design of Pumping Station

I. General Design Description

The location of the pumping station provided with vertical non-clog sewage pumps is at Siddarth Garden. As per the design calculations the proposed dimensions and the types of various units of the pumping station in brief will be as follows

II. Design Calculations

A. Design Data

(i)	Location	=	Siddarth Garden	
(ii)	Capacity of Pumping Station	=	4.5	MLD
(iii)	Average Flow (2030)	=	4.5	MLD
	Average Flow (2045)	=	4.5	MLD
	Peak Factor	=	2.25	
(iii)	Ground Level	=	560.3	m
(iv)	Invert level of pipe at OF2	=	555.13	m

Incoming Sewer Lines into the Junction Manhole			
Line No.	Size	Invert Level (m)	Capacity m ³ /sec
OF-1	1500	5.17	

(iii)	Flows			
	Q avg. (2030)	=	0.052	m ³ /sec.
	Q peak (2030)	=	0.117	m ³ /sec.
	Q avg. (2045)	=	0.052	m ³ /sec.
	Q peak (2045)	=	0.117	m ³ /sec.

B. Design Basis

- (i) Civil structures for Q peak (2045) conditions.
- (ii) Mech./Electrical plants for Q peak (2030) conditions.

C. Pumps

It is proposed to provide 6 Vertical Submersible non clog pumps each of 0.2 m³/sec. capacity . Out of the 6 pumps maximum 4 pumps shall be working and two pumps will remain standby. During Average flow only two pumps will be working.

D. Screen Chamber

It is proposed to provide three screen channels, Two will be mechanical screens and one will be manual screen.

(a) Design of screen chamber

$Q_{\text{peak (2045)}}$ = 0.117 m³/sec.

Q_{full} = 2.316 m³/sec.

(i) Dia. of connecting sewer

Velocity in the connecting sewer = 0.600 m³/sec.

Area of pipe = 0.195 m²

Dia. of pipe, D = 0.498 m
say 1.5 m

Slope of Sewer Pipe = 0.13

Velocity of flow in the pipe at full flow= 1.31 m/sec

(ii) Depth of flow (d) in the connecting sewer

Q/Q_{full} = 0.05

d/D = 0.15

d = 0.228

(iii) Size of screen chamber

Assume depth of flow in the screen chamber = 0.23 m
(i.e. same as that in the incoming sewer)

(b) Coarse Screen Channel

No. of Mechanical (Working) Screens = 2 Nos Mechanical

No. of Manual (Standby) Screens = 1 Nos manual

Total No. of Screens = 3 Nos

No. of Mechanical Screens = 2 Nos

Design Flow = Peak Flow

= 10.11 MLD

= 2.81 m³/hr

= 0.12 m³/s

=

Average Flow (Qav) = 4.49 MLD

= 1.25 m³/hr

= 0.05 m³/s

Design Peak Flow in each screen = 0.117 m³/s

2 Nos

0.0585 m³/s

Average Flow in each screen	$\frac{0.052}{2}$	m3/s Nos
	0.026	m3/s
Maximum Velocity through screen at Peak Flow	0.9	m/s
Minimum Velocity through screen at Average Flow	0.6	m/s
Clear area of opening through screen at Peak flow	$\frac{0.0585}{0.9}$	m3/s m/s
	0.065	m2
Clear area of opening through screen at Average flow	$\frac{0.026}{0.6}$	m3/s m/s
	0.043333333	m2
Considering Maximum area of opening through screen	0.065	m2
Clear spacing of bars	20	mm
Thickness of bars	6	mm
Gross area of screen	$0.065 \times (20+6) / 20$	
	0.085	m2
Assuming Depth of Screen Channel	0.23	m
Gross Width of Screen	$\frac{0.085}{0.23}$	
	0.367	m
No. of Bars	$(\text{Gross Width of Screen} / \text{Center to Center Spacing}) - 1$	
	$(0.085 / ((20 + 6) / 1000)) - 1$	13.13 Nos
Say		14.00 Nos
Width of screen provided	$(\text{Number of Bars} + 1) \times \text{Clear Spacing} + (\text{Number of Bars} \times \text{Bar Thickness})$	
	$(14+1) \times 20 + (14 \times 6)$	384 mm
Width of side Frame of screen on each side		50 mm
Total width of screen channel		484 mm
Say		500 mm
Height of blind plate at bottom of screen provided		50 mm
Liquid depth of screen channel provided		280 mm
Length of screen channel provided		5000 mm
Freeboard provided		300 mm
Velocity in channel at Average flow	$\text{Average Flow} / \text{Cross Sectional Area of Screen}$	
	$0.052 / (0.5 \times 0.28)$	0.371 m/sec
		0.3 m/sec ok

(c) Head Loss across Screen

Head Loss across Screen = $0.0728 (V^2 - v^2)$

$$V = \text{Velocity through Screen at Peak Flow} = \frac{\text{Peak Flow through Screen Channel}}{\text{Clear Area of Opening through Screen}}$$

$$= 0.078$$

$$v = \text{Velocity in approach Channel at Peak Flow} = \frac{\text{Peak Flow through Screen Channel}}{\text{Cross Sectional Area of Screen Channel}}$$

$$= 0.418$$

$$\text{Head Loss across Screen at Peak Flow} = -0.012$$

Head Loss across Screen at 50% Clogged Condition

$$\text{Velocity through Screen at 50% Clogged Condition at Peak Flow} = 0.157$$

$$\text{Head Loss across screen at 50% Clogged Condition at Peak Flow} = -0.011$$

(d) Coarse Screen Channel: Manual

$$\text{No. of Manual Screen} = 1 \quad \text{No.}$$

$$\begin{aligned} \text{Design Flow} &= 1/2 \text{ Peak Flow} \\ &= 5.054 \quad \text{MLD} \\ &= 210.600 \quad \text{m}^3/\text{hr} \\ &= 0.059 \quad \text{m}^3/\text{sec} \end{aligned}$$

$$\begin{aligned} \text{Average Flow (Q}_{av}\text{)} &= 4.493 \quad \text{MLD} \\ &= 187.200 \quad \text{m}^3/\text{hr} \\ &= 0.052 \quad \text{m}^3/\text{sec} \end{aligned}$$

$$\text{Design Flow in each Screen} = \frac{0.059}{1} \quad \begin{matrix} \text{m}^3/\text{sec} \\ \text{No.} \end{matrix}$$

$$= 0.059 \quad \text{m}^3/\text{sec}$$

$$\text{Average Flow in each Screen} = \frac{0.052}{1} \quad \begin{matrix} \text{m}^3/\text{sec} \\ \text{No.} \end{matrix}$$

$$= 0.052 \quad \text{m}^3/\text{sec}$$

$$\begin{aligned} \text{Velocity through Screen at Peak Flow} &= 1.2 \quad \text{m/sec} \\ \text{Velocity through Screen at Average Flow} &= 0.6 \quad \text{m/sec} \end{aligned}$$

$$\begin{aligned} \text{Clear Area of Opening through Screen for Peak Flow} &= \frac{0.059}{1.2} \quad \begin{matrix} \text{m}^3/\text{sec} \\ \text{m/sec} \end{matrix} \\ &= 0.049 \quad \text{m}^2 \end{aligned}$$

$$\text{Clear Area of Opening through Screen for Average Flow} = \frac{0.052}{1} \quad \text{m}^3/\text{sec}$$

	=	0.6	m/sec
	=	0.087	m ²
Considering maximum Area of Opening through Screen	=	0.087	m ²
Clear Spacing of Bars	=	20	mm
Thickness of Bars	=	6	mm
Gross Area of Screen	=	$0.087 \times (20+6) / 20$	
	=	0.113	m ²
Assuming Depth of Screen Channel	=	0.230	m
Gross Width of Screen	=	$0.1127 / 0.23$	
	=	0.490	m
No. of Bars	=	$(\text{Gross Width of Screen} / \text{Center to Center Spacing of Bars}) - 1$	
	=	$(0.49 / ((20 + 6)/1000)) - 1$	
	=	17.841	Nos.
Say	=	18	Nos.
Width of Screen provided	=	$(\text{Number of Bars}+1) \times \text{Clear Spacing} + (\text{Number of Bars} \times \text{Bar Thickness})$	
	=	$(18+1) \times 20 + (18 \times 6)$	
	=	488	mm
Width of Side Frame of Screen on each Side	=	50	mm
Total Width of Screen Channel	=	588	mm
Width of Screen Channel provided, Say	=	600	mm
Liquid Depth of Screen Channel provided	=	250	mm
Length of Screen Channel	=	5000	mm
Freeboard Provided	=	300	mm
Velocity in Channel at Average Flow	=	$\text{Average Flow} / \text{Cross Sectional Area of Screen Channel}$	
	=	$0.052 / (0.6 \times 0.25)$	
	=	0.347	m/sec
	≥	0.300	m/sec
	=	OK	

(e) Head Loss across Screen

Head Loss across Screen	=	$0.0728 (V^2 - v^2)$
V = Velocity through Screen at Peak Flow	=	$\text{Peak Flow through Screen Channel} / \text{Clear Area of Opening through Screen}$