

**MINISTRY OF INDUSTRY, MINES AND ENERGY
SIEM REAP WATER SUPPLY AUTHORITY
THE KINGDOM OF CAMBODIA**

**THE PREPARATORY STUDY
ON
THE SIEM REAP WATER SUPPLY
EXPANSION PROJECT
IN
THE KINGDOM OF CAMBODIA**

FINAL REPORT 1

**VOLUME IV
DATA BOOK**

JANUARY 2011

**JAPAN INTERNATIONAL COOPERATION AGENCY
NJS CONSULTANTS CO., LTD.
KOKUSAI KOGYO CO., LTD.**

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Data Book

*Data Sheets for
Distribution Network Analysis*

Data Book

Data No.

Title of Data

Data Sheets for Distribution Network Analysis

DSD 1	Existing Distribution Pipelines
DSD 2	Distribution Main Pipelines (F/S : Central Zone)
DSD 3	Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)
DSD 4	Existing Distribution Junctions
DSD 5	Distribution Main Junctions (F/S : Central Zone)
DSD 6	Sub-Main and Branch Distribution Junctions (F/S : Central Zone)

Notes: Those pipes identified by yellow color should be installed under the KTC bulk water supply project.

DSD 1
Existing Distribution Pipelines

DSD 1 Existing Distribution Pipelines

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
Q1 Block						19,435.68	Total
2390	PE1-01	Tank E	JE1-01	Ductile Iron	500	2,677.38	
2414	PE1-02	JE1-01	JSm1-01 (JE1)	Ductile Iron	500	402.57	
2415	PE1-03	JSm1-01 (JE1)	JE1-02	Ductile Iron	500	106.20	
φ500 Total						3,186.15	
3234	PE1-04	JE1-02	JSm1-04 (JE1)	Ductile Iron	250	471.58	
3235	PE1-05	JSm1-04 (JE1)	JSf1-01 (JE1)	Ductile Iron	250	886.10	
2387	PE1-10	JSf1-11 (JE1-03)	JE1-29	Ductile Iron	250	176.03	
2820	PE1-1089	JE1-432	JE1-547	Ductile Iron	250	183.94	
2821	PE1-1090	JE1-547	JM-23 (JE1)	Ductile Iron	250	10.95	
2775	PE1-11	JE1-29	JE1-04	Ductile Iron	250	123.77	
2391	PE1-12	JE1-04	JE1-05	Ductile Iron	250	180.17	
2923	PE1-1202	JSf1-01 (JE1)	JE1-586	Ductile Iron	250	358.29	
2924	PE1-1203	JE1-586	JE1-442	Ductile Iron	250	101.77	
2783	PE1-2181	JSf1-02 (JE1)	JE1-985	Ductile Iron	250	172.53	
3663	PE1-2182	JE1-985	JE1-432	Ductile Iron	250	187.05	
2393	PE1-755	JE1-0211	JSf1-02 (JE1)	Ductile Iron	250	213.78	
2595	PE1-800	JE1-442	JE1-0211	Ductile Iron	250	254.90	
2596	PE1-804	JM-23 (JE1)	JE1-444	Ductile Iron	250	184.97	
2597	PE1-805	JE1-444	JSf1-08 (JE1)	Ductile Iron	250	187.62	
2602	PE1-814	JSf1-08 (JE1)	JE1-449	Ductile Iron	250	178.20	
2574	PE1-962	JE1-449	JE1-502	Ductile Iron	250	318.59	
2575	PE1-963	JE1-502	JSf1-11 (JE1-03)	Ductile Iron	250	219.02	
φ250 Total						4,409.26	
2388	PE1-15	JSf1-19 (JE1-07)	JSf3-01 (JE3-01)	PVC	200	119.10	
3193	PE1-1571	JE1-743	JSf1-15 (JE1-06)	PVC	200	310.32	
3198	PE1-1577	JE1-05	JE1-747	PVC	200	103.45	
3199	PE1-1578	JE1-747	JE1-743	PVC	200	77.37	
6361	PE1-7054	JSf1-15 (JE1-06)	JE1-2869	PVC	200	170.21	
6362	PE1-7055	JE1-2869	JSf1-19 (JE1-07)	PVC	200	222.96	
φ200 Total						1,003.41	
2935	PE1-1244	JE1-602	JSf1-12 (JE1)	PVC	150	102.57	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2939	PE1-1248	JE1-507	JE1-604	PVC	150	75.01	
2940	PE1-1249	JE1-604	JE1-602	PVC	150	182.16	
2960	PE1-1264	JE1-608	JE1-610	PVC	150	106.96	
2961	PE1-1265	JE1-610	JE1-507	PVC	150	81.53	
2966	PE1-1270	JSf1-12 (JE1)	JE1-612	PVC	150	211.71	
2967	PE1-1271	JE1-612	JSf1-11 (JE1-03)	PVC	150	184.88	
3000	PE1-1310	JE1-08	JE1-630	PVC	150	78.54	
3005	PE1-1319	JE1-630	JE1-635	PVC	150	58.46	
3016	PE1-1380	JE1-635	JE1-663	PVC	150	73.85	
3017	PE1-1381	JE1-663	JE1-07'	PVC	150	66.19	
3074	PE1-1410	JE1-675	JE1-11	PVC	150	89.68	
3077	PE1-1413	JE1-07'	JE1-677	PVC	150	137.33	
3088	PE1-1429	JE1-677	JE1-686	PVC	150	140.81	
3112	PE1-1459	JE1-686	JE1-697	PVC	150	128.94	
3113	PE1-1460	JE1-697	JE1-675	PVC	150	134.59	
3160	PE1-1516	JE1-720	JE1-22	PVC	150	132.59	
3165	PE1-1521	JE1-13	JE1-722	PVC	150	79.48	
3176	PE1-1540	JE1-16	JE1-731	PVC	150	161.39	
3177	PE1-1541	JE1-731	JSf1-16 (JE1-17)	PVC	150	262.93	
3192	PE1-1568	JE1-742	JE1-16	PVC	150	83.61	
3338	PE1-1641	JSf1-19 (JE1-07)	JE1-771	PVC	150	227.82	
3340	PE1-1647	JSf1-22 (JE1-20)	JE1-773	PVC	150	232.30	
3343	PE1-1652	JE1-773	JE1-775	PVC	150	185.61	
3344	PE1-1653	JE1-775	JE1-754	PVC	150	100.07	
3348	PE1-1657	JE1-754	JE1-777	PVC	150	107.99	
3349	PE1-1658	JE1-777	JM-29 (JE1-20)	PVC	150	207.66	
3351	PE1-1660	JE1-771	JE1-778	PVC	150	286.42	
3352	PE1-1661	JE1-778	JSf1-22 (JE1-20)	PVC	150	116.43	
3357	PE1-1669	JM-29 (JE1-20)	JSf1-20 (JE1)	PVC	150	59.31	
3358	PE1-1670	JSf1-20 (JE1)	JSf1-21 (JE1-21)	PVC	150	101.55	
3371	PE1-1688	JSf1-21 (JE1-21)	JE1-791	PVC	150	160.48	
3373	PE1-1689	JE1-791	JE1-792	PVC	150	129.03	
3374	PE1-1691	JE1-792	JB4-790	PVC	150	92.87	
3401	PE1-1730	JB4-790	JE1-809	PVC	150	125.61	
3402	PE1-1731	JE1-809	JE1-720	PVC	150	167.22	
3025	PE1-6846	JE1-608	JSf1-13 (PE1)	PVC	150	157.77	
3174	PE1-846	JE1-722	JE1-12597	PVC	150	89.23	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3175	PE1-847	JE1-12597	JE1-742	PVC	150	103.03	
2530	PE1-881	JE1-08	JE1-473	PVC	150	124.89	
2627	PE1-966	JE1-473	JSf1-13 (PE1)	PVC	150	62.34	
φ150 Total						5,410.84	
3191	PE1-1565	JE1-05	JE1-741	PVC	100	254.59	
3196	PE1-1574	JE1-741	JE1-746	PVC	100	95.65	
3201	PE1-1580	JE1-746	JE1-748	PVC	100	72.72	
3203	PE1-1585	JE1-748	JE1-750	PVC	100	70.76	
3204	PE1-1586	JE1-750	JE1-16	PVC	100	102.29	
2408	PE1-16	JE1-01	JE1-21"	PE	100	561.01	
3337	PE1-1640	JE1-770	JSf1-15 (JE1-06)	PVC	100	123.23	
3339	PE1-1645	JSf1-24 (JE1)	JSf1-22 (JE1-20)	PVC	100	212.43	
3341	PE1-1650	JE1-774	JSf1-24 (JE1)	PVC	100	190.47	
3345	PE1-1654	JE1-23	JE1-776	PVC	100	217.92	
3346	PE1-1655	JE1-776	JE1-774	PVC	100	203.29	
3356	PE1-1666	JE1-23	JE1-781	PVC	100	187.77	
3364	PE1-1677	JE1-781	JE1-785	PVC	100	99.80	
3365	PE1-1678	JE1-785	JM-29 (JE1-20)	PVC	100	115.99	
3367	PE1-1680	JSf1-26 (JE1-24)	JE1-786	PVC	100	320.54	
3368	PE1-1681	JE1-786	JSf1-21 (JE1-21)	PVC	100	199.78	
2774	PE1-21	JE1-09	JE1-08	PVC	100	100.01	
3173	PE1-60846	JE1-14	JE1-15	PVC	100	509.59	
2624	PE1-6795	JE1-770	JE1-749	PVC	100	233.34	
φ100 Total						3,871.18	
2968	PE1-1272	JE1-29	JE1-613	PVC	80	235.74	
2969	PE1-1273	JE1-613	JE1-13	PVC	80	226.74	
3255	PE1-1820	JE1-12	JE1-846	PVC	80	108.54	
3257	PE1-1821	JE1-846	JE1-847	PVC	80	81.81	
3260	PE1-1826	JE1-847	JE1-848	PVC	80	98.54	
3261	PE1-1827	JE1-848	JE1-11	PVC	80	187.96	
2776	PE1-23	JE1-04	JE1-14	PVC	80	322.63	
φ80 Total						1,261.96	
3020	PE1-1449	JE1-510	JE1-490	PE	50	106.26	
2552	PE1-928	JE1-10	JE1-490	PE	50	108.98	
2634	PE1-983	JE1-510	JE1-08	PE	50	77.64	
φ50 Total						292.88	
Q2 Block						14,909.72	Total
2413	PE2-01	JE1-02	JK-02(JE2)	Ductile Iron	450	24.32	
3233	PE2-02	JK-02(JE2)	JSf2-01	Ductile Iron	450	1,137.12	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
			(JE2)				
3236	PE2-05	JSf2-01 (JE2)	JSf2-02 (JE2)	Ductile Iron	450	937.93	
φ450 Total						2,099.37	
2686	PE2-08	JE2-03	JE2-314	Ductile Iron	350	214.51	
2687	PE2-09	JE2-314	JSf2-08 (JE2-05)	Ductile Iron	350	128.01	
3662	PE2-2179	JSf2-02 (JE2)	JE2-984	Ductile Iron	350	384.33	
3666	PE2-2185	JE2-984	JE2-986	Ductile Iron	350	189.88	
3669	PE2-2189	JE2-986	JE2-988	Ductile Iron	350	182.42	
3670	PE2-2190	JE2-988	JM-22 (JE2)	Ductile Iron	350	12.85	
3702	PE2-2281	JM-22 (JE2)	JE2-1028	Ductile Iron	350	179.22	
3703	PE2-2282	JE2-1028	JSf2-05 (JE2)	Ductile Iron	350	190.37	
3711	PE2-2294	JSf2-05 (JE2)	JE2-1032	Ductile Iron	350	192.17	
3712	PE2-2295	JE2-1032	JE2-01	Ductile Iron	350	16.12	
3728	PE2-2321	JE2-01	JE2-1047	Ductile Iron	350	133.94	
3732	PE2-2331	JSf2-315	JE2-06	Ductile Iron	350	98.46	
3735	PE2-2338	JSf2-08 (JE2-05)	JE2-1054	Ductile Iron	350	142.35	
3736	PE2-2339	JE2-1054	JE2-07	Ductile Iron	350	125.10	
3653	PE2-6850	JE2-1047	JE2-03	Ductile Iron	350	239.88	
φ350 Total						2,429.61	
2382	PE2-12	JE2-10	JSf2-12 (JE2-12)	Ductile Iron	250	156.39	
2392	PE2-13	JSf2-12 (JE2-12)	JE2-13	Ductile Iron	250	19.29	
3733	PE2-2335	JE2-07	JE2-1053	Ductile Iron	250	195.31	
3734	PE2-2336	JE2-1053	JE2-10	Ductile Iron	250	136.51	
3795	PE2-2470	JE2-13	JE2-1107	Ductile Iron	250	162.83	
3796	PE2-2471	JE2-1107	JSf2-21 (JE2-14)	Ductile Iron	250	225.60	
φ250 Total						895.93	
2383	PE2-15	JSf2-21 (JE2-14)	JSf4-01 (JE4-01)	PVC	200	109.69	
2689	PE2-23	JE2-11	JSf2-14	PVC	200	103.82	
3764	PE2-2370	JE2-07	JE2-1066	PVC	200	134.29	
3765	PE2-2371	JE2-1066	JE2-1052	PVC	200	71.23	
3772	PE2-2389	JE2-1073	JE2-1070	PVC	200	157.01	
2690	PE2-24	JSf2-14	JSf2-13 (JE2-15)	PVC	200	84.39	
3789	PE2-2460	JE2-1052	JE2-1103	PVC	200	125.36	
3790	PE2-2461	JE2-1103	JE2-1073	PVC	200	63.87	
3813	PE2-2494	JE2-08	JE2-1120	PVC	200	57.40	
2396	PE2-27	JSf2-13	JE2-16	PVC	200	16.98	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
		(JE2-15)					
6163	PE2-6079	JE2-1120	JE2-2541	PVC	200	71.43	
6164	PE2-6080	JE2-2541	JE2-11	PVC	200	100.50	
6174	PE2-6090	JE2-1070	JE2-2545	PVC	200	133.21	
6175	PE2-6091	JE2-2545	JE2-08	PVC	200	81.69	
6271	PE2-6276	JM-20	JSm2-10	PVC	200	18.45	
φ200 Total						1,329.32	
3792	PE2-2465	JSf2-12 (JE2-12)	JE2-1105	Ductile Iron	150	280.92	
3794	PE2-2468	JE2-13	JE2-1106	PVC	150	83.35	
3799	PE2-2477	JE2-16	JE2-1112	Ductile Iron	150	157.30	
3801	PE2-2480	JE2-1106	JE2-1113	PVC	150	90.00	
3803	PE2-2481	JE2-1113	JE2-1114	PVC	150	107.99	
3805	PE2-2483	JE2-1114	JE2-1115	PVC	150	130.82	
3806	PE2-2485	JE2-1115	JE2-16	PVC	150	192.14	
3849	PE2-2547	JE2-1105	JE2-1140	Ductile Iron	150	139.31	
3850	PE2-2548	JE2-1140	JSf2-13 (JE2-15)	Ductile Iron	150	189.47	
3872	PE2-2603	JSf2-42 (JE2)	JSf2-1165 (JE2)	PVC	150	22.17	
2419	PE2-29	JE2-16	JE2-18	PVC	150	93.75	
2397	PE2-30	JE2-18	JE2-19	PVC	150	212.10	
2403	PE2-37	JE2-18	JE2-26	PVC	150	174.53	
2404	PE2-38	JE2-26	JE2-27	PVC	150	120.76	
2405	PE2-39	JE2-27	JE2-28	PVC	150	63.30	
2406	PE2-40	JE2-28	JSf2 (JE2-29)	PVC	150	86.49	
5051	PE2-4431	JE2-1907	JSf2 (JE2-17)	Ductile Iron	150	95.40	
5059	PE2-4441	JE2-1112	JE2-1912	Ductile Iron	150	51.93	
5060	PE2-4442	JE2-1912	JE2-1907	Ductile Iron	150	123.65	
φ150 Total						2,415.38	
3759	PE2-2365	JSf2-08 (JE2-05)	JE2-1064	PVC	100	194.87	
3760	PE2-2366	JE2-1064	JE2-06	PVC	100	200.60	
3788	PE2-2458	JE2-1102	JE2-11	PVC	100	179.75	
3791	PE2-2463	JE2-1104	JE2-1102	PVC	100	207.15	
3830	PE2-2515	JE2-1128	JSf2-16 (JE2-40)	PVC	100	145.27	
3847	PE2-2544	JE2-10	JE2-1139	PVC	100	119.50	
3848	PE2-2545	JE2-1139	JE2-1104	PVC	100	152.70	
2398	PE2-31	JE2-19	JE2-20	PVC	100	12.08	
2399	PE2-32	JE2-20	JE2-21	PVC	100	104.83	
2400	PE2-33	JE2-21	JE2-22	PVC	100	27.28	
2418	PE2-34	JE2-22	JE2-23	PVC	100	64.65	
2401	PE2-35	JE2-23	JE2-24	PVC	100	43.72	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2402	PE2-36	JE2-24	JSf2-19 (JE2-25)	PVC	100	54.01	
2691	PE2-62	JSf2-16 (JE2-40)	JSf2-15 (JE2-39)	PVC	100	155.05	
2439	PE2-65	JSf2 (JE2-29)	JSf4-13 (JE4)	Ductile Iron	100	86.55	
3654	PE2-68500	JE2-03	JE2-2595	PVC	100	175.20	
3655	PE2-6851	JE2-2595	JE2-04	PVC	100	84.47	
φ100 Total						2,007.68	
2510	PE2-16	JE2-01	JE2-02	PVC	80	80.13	
3837	PE2-2525	JSf2-320 (JE2)	JSf2-1132 (JE2)	PVC	80	45.37	
3840	PE2-2530	JSf2-1132 (JE2)	JSf2-1134 (JE2)	PVC	80	176.15	
3843	PE2-2536	JSf2-1136 (JE2)	JSf2-15 (JE2-39)	PVC	80	55.47	
3854	PE2-2575	JSf2-20 (JE2-38)	JE2-1152	PVC	80	234.22	
3855	PE2-2577	JSf2-20 (JE2-38)	JSf2 (JE2-1153)	PVC	80	201.55	
3857	PE2-2580	JE2-1152	JE2-1154	PVC	80	127.96	
3858	PE2-2581	JE2-1154	JSf2-15 (JE2-39)	PVC	80	182.44	
3859	PE2-2582	JSf2 (JE2-1153)	JSf2-1155 (JE2)	PVC	80	139.78	
3869	PE2-2600	JSf2-1155 (JE2)	JSf2-1164 (JE2)	PVC	80	24.58	
3870	PE2-2601	JSf2-1164 (JE2)	JSf2-42 (JE2)	PVC	80	197.21	
2433	PE2-370	JE2-23	JE2-33	PVC	80	25.96	
2431	PE2-41	JSf2 (JE2-30)	JSf2 (JE2-31)	PVC	80	84.50	
2432	PE2-42	JSf2 (JE2-31)	JSf2-19 (JE2-25)	PVC	80	78.43	
2421	PE2-43	JE2-19	JE2-26	PVC	80	115.23	
2422	PE2-44	JE2-20	JE2-32	PVC	80	94.18	
2425	PE2-45	JE2-21	JE2-32	PVC	80	61.63	
2426	PE2-46	JE2-32	JE2-27	PVC	80	119.62	
2445	PE2-47	JE2-22	JE2-33	PVC	80	55.61	
2434	PE2-48	JE2-33	JE2-34	PVC	80	79.44	
2423	PE2-49	JE2-32	JE2-34	PVC	80	71.04	
2427	PE2-50	JE2-34	JE2-28	PVC	80	125.47	
2435	PE2-51	JE2-33	JSf2 (JE2-31)	PVC	80	87.98	
2424	PE2-52	JE2-34	JSf2 (JE2-30)	PVC	80	89.04	
2436	PE2-53	JE2-28	JE2-35	PVC	80	72.86	
2437	PE2-54	JE2-35	JSf2 (JE2-36)	PVC	80	108.09	
2438	PE2-55	JE2-35	JSf2 (JE2-37)	PVC	80	89.26	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2429	PE2-56	JSf2 (JE2-37)	JSf2 (JE2-29)	PVC	80	89.74	
2428	PE2-57	JSf2 (JE2-36)	JSf2 (JE2-37)	PVC	80	74.27	
2688	PE2-58	JE2-24	JSf2-320 (JE2)	PVC	80	233.87	
2417	PE2-60	JSf2-19 (JE2-25)	JSf2-20 (JE2-38)	PVC	80	47.65	
6183	PE2-6100	JSf2-1134 (JE2)	JSf2-2549 (JE2)	PVC	80	135.31	
6184	PE2-6101	JSf2-2549 (JE2)	JSf2-1136 (JE2)	PVC	80	137.30	
φ80 Total						3,541.34	
2702	PE2-20	JE2-09	JE2-08	PVC	50	191.09	
φ50 Total						191.09	
Q3 Block						5,939.43	Total
2389	PE3-01	JSf3-01 (JE3-01)	JSf3-02 (JE3)	PVC	200	131.43	
φ200 Total						131.43	
3917	PE3-2739	JSf3-02 (JE3)	JSf3-1225 (JE3)	PVC	150	471.52	
3972	PE3-2817	JSf3-1225 (JE3)	JSf3-1260 (JE3)	PVC	150	201.09	
3973	PE3-2818	JSf3-1260 (JE3)	JSf3-06 (JE3)	PVC	150	151.52	
3984	PE3-2831	JSf3-06 (JE3)	JSf3-1267 (JE3)	PVC	150	163.15	
3985	PE3-2832	JSf3-1267 (JE3)	JSf3-03 (JE3)	PVC	150	133.78	
3992	PE3-2841	JSf3-03 (JE3)	JSf3-1271 (JE3)	PVC	150	104.35	
4010	PE3-2862	JSf3-1271 (JE3)	JSf3-1281 (JE3)	PVC	150	240.36	
4012	PE3-2866	JSf3-1281 (JE3)	JSf3-1284 (JE3)	PVC	150	64.40	
4013	PE3-2867	JSf3-1284 (JE3)	JSf3-04 (JE3)	PVC	150	72.06	
4124	PE3-3018	JSf3-04 (JE3)	JSf3-1345 (JE3)	PVC	150	164.98	
4528	PE3-3311	JSf3-1345 (JE3)	JSf3-05 (JE3)	PVC	150	149.14	
φ150 Total						1,916.35	
2509	PE3-09	JE3-06	JE3-08	PVC	100	79.65	
3912	PE3-2727	JSf3-01 (JE3-01)	JE3-1219	PVC	100	279.88	
3944	PE3-2778	JE3-1219	JE3-1243	PVC	100	103.25	
3945	PE3-2779	JE3-1243	JE3-06	PVC	100	106.93	
3949	PE3-2783	JE3-06	JE3-1245	PVC	100	249.69	
3987	PE3-2835	JSf3-03 (JE3)	JE3-1269	PVC	100	131.22	
3999	PE3-2850	JE3-10	JE3-1276	PVC	100	162.91	
4000	PE3-2851	JE3-1276	JE3-11	PVC	100	114.47	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4003	PE3-2854	JE3-1269	JE3-1278	PVC	100	168.70	
4004	PE3-2855	JE3-1278	JE3-11	PVC	100	122.18	
4042	PE3-2914	JE3-1245	JE3-1304	PVC	100	129.26	
4044	PE3-2915	JE3-1304	JE3-1305	PVC	100	88.83	
4045	PE3-2917	JE3-1305	JSf3-02 (JE3-07)	PVC	100	69.89	
4120	PE3-3010	JSf3-12 (JE3)	JSf3-1341 (JE3)	PE	100	49.23	
4123	PE3-3016	JE3-1343	JSf3-12 (JE3)	PE	100	186.71	
4125	PE3-3022	JE3-1346	JE3-1343	PE	100	117.13	
4130	PE3-3028	JSf3-1341 (JE3)	JSf3-1349 (JE3)	PE	100	116.77	
4134	PE3-3033	JSf3-04 (JE3)	JE3-1351	PE	100	133.24	
4135	PE3-3034	JE3-1351	JE3-1346	PE	100	131.70	
4516	PE3-3294	JSf3-1349 (JE3)	JSf3-13 (JE3)	PE	100	72.03	
4518	PE3-3296	JE3-1453	JSf3-13 (JE3)	PE	100	279.41	
4530	PE3-3313	JSf3-05 (JE3)	JE3-1453	PE	100	305.34	
φ100 Total						3,198.42	
3914	PE3-2732	JSf3-02 (JE3)	JE3-1221	PVC	80	136.47	
3915	PE3-2733	JE3-1221	JE3-1220	PVC	80	134.07	
3925	PE3-2750	JE3-1220	JE3-1229	PVC	80	71.80	
3928	PE3-2754	JE3-1231	JE3-08	PVC	80	64.65	
3946	PE3-2780	JE3-1229	JE3-1244	PVC	80	43.91	
3947	PE3-2781	JE3-1244	JE3-1231	PVC	80	38.21	
φ80 Total						489.11	
3659	PE3-6855	JE3-1233	JE3-09	PVC	50	35.72	
3660	PE3-6856	JE3-08	JE3-1233	PVC	50	168.40	
φ50 Total						204.12	
Q4 Block						10,781.69	Total
2384	PE4-01	JSf4-01 (JE4-01)	JSf4-02 (JE4)	PVC	200	134.13	
2385	PE4-05	JSf4-09 (JE4-07)	JSf4-08 (JE4)	PVC	200	146.18	
2386	PE4-07	JSf4-09 (JE4)	JSf4-17 (JE4-10)	PVC	200	60.71	
5163	PE4-4665	JSf4-08 (JE4)	JSf4-2013 (JE4)	PVC	200	197.60	
5166	PE4-4670	JSf4-2013 (JE4)	JSf4-2015 (JE4)	PVC	200	96.19	
5217	PE4-4752	JSf4-2015 (JE4)	JSf4-2057 (JE4)	PVC	200	154.85	
5218	PE4-4753	JSf4-2057 (JE4)	JSf4-09 (JE4)	PVC	200	101.22	
5147	PSf4-4648	JSf4-10	JSf44-150	PVC	200	233.28	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
	(PE4)	(JE4)	(JE4)				
φ200 Total						1,124.16	
5069	PE4-4451	JSf4-01 (JE4-01)	JSf4-1916 (JE4)	PVC	150	154.44	
5078	PE4-4470	JSf4-1916 (JE4)	JSf4-1925 (JE4)	PVC	150	154.47	
5081	PE4-4475	JSf4-1925 (JE4)	JSf4-1927 (JE4)	PVC	150	64.35	
5082	PE4-4476	JSf4-1927 (JE4)	JSf4-11 (JE4)	PVC	150	95.30	
5086	PE4-4557	JSf4-1963 (JE4)	JSf4-1964 (JE4)	PVC	150	76.02	
5087	PE4-4558	JSf4-1964 (JE4)	JSf4-03 (JE4)	PVC	150	130.47	
5088	PE4-4561	JSf4-1962 (JE4)	JSf4-1965 (JE4)	PVC	150	73.16	
5089	PE4-4562	JSf4-1965 (JE4)	JSf4-1963 (JE4)	PVC	150	146.60	
5127	PE4-4613	JSf4-1989 (JE4)	JSf4-05 (JE4)	PVC	150	61.10	
5128	PE4-4615	JSf4-03 (JE4)	JSf4-1990 (JE4)	PVC	150	107.72	
5129	PE4-4616	JSf4-1990 (JE4)	JSf4-1989 (JE4)	PVC	150	62.43	
5141	PE4-4641	JSf4-05 (JE4)	JSf4-2000 (JE4)	PVC	150	97.03	
5142	PE4-4642	JSf4-2000 (JE4)	JSf4-2001 (JE4)	PVC	150	86.25	
5143	PE4-4644	JSf4-2001 (JE4)	JSf4-09 (JE4-07)	PVC	150	100.82	
6104	PE4-6010	JSf4-02 (JE4)	JSf4-2517 (JE4)	PVC	150	106.28	
6105	PE4-6011	JSf4-2517 (JE4)	JSf4-1962 (JE4)	PVC	150	131.74	
φ150 Total						1,648.18	
2441	PE4-16	JSf4-11 (JE4)	JE4-17	PVC	100	143.47	
2440	PE4-17	JE4-17	JSf4-09 (JE4-09)	PVC	100	99.14	
2459	PE4-19	JSf4-13 (JE4)	JE4-18	PVC	100	204.10	
2444	PE4-26	JSf4-08 (JE4)	JE4-170	PVC	100	33.81	
2407	PE4-27'	JE4-170	JE4-20	PE	100	204.34	
5070	PE4-4453	JSf4-02 (JE4)	JE4-1917	PVC	100	173.72	
5073	PE4-4460	JSf4-05 (JE4)	JE4-1922	PVC	100	191.64	
5074	PE4-4461	JE4-1922	JE4-06	PVC	100	42.18	
5075	PE4-4465	JSf4-020 (JE4)	JSf4-1923 (JE4)	PVC	100	108.94	
5076	PE4-4467	JSf4-09 (JE4-09)	JE4-1924	PVC	100	96.58	
5079	PE4-4472	JE4-1917	JE4-1926	PVC	100	128.42	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5083	PE4-4477	JE4-1926	JE4-1928	PVC	100	79.80	
5084	PE4-4478	JE4-1928	JE4-17	PVC	100	96.81	
2462	PE4-4481	JSf4-1923 (JE4)	JSf4-1929 (JE4)	PVC	100	71.02	
4552	PE4-4486	JSf4-1929 (JE4)	JSf4-1931 (JE4)	PVC	100	62.54	
4553	PE4-4488	JE4-1930	JE4-1932	PVC	100	44.08	
4555	PE4-4491	JSf4-1931 (JE4)	JSf4-1933 (JE4)	PVC	100	114.40	
4556	PE4-4492	JSf4-1933 (JE4)	JSf4-13 (JE4)	PVC	100	103.36	
4557	PE4-4493	JE4-1932	JE4-1934	PVC	100	105.77	
4558	PE4-4494	JE4-1934	JE4-18	PVC	100	109.84	
4572	PE4-4513	JE4-1924	JE4-1945	PVC	100	23.96	
4573	PE4-4514	JE4-1945	JE4-1930	PVC	100	63.11	
4584	PE4-4530	JE4-1944	JE4-1952	PVC	100	153.36	
4585	PE4-4531	JE4-1952	JE4-1951	PVC	100	218.80	
4591	PE4-4544	JE4-1951	JE4-1958	PVC	100	71.33	
5164	PE4-4667	JE4-20	JE4-2014	PE	100	87.26	
5168	PE4-4673	JE4-2014	JE4-2017	PE	100	256.22	
5295	PE4-4837	JE4-1958	JE4-2090	PVC	100	43.59	
5296	PE4-4838	JE4-2090	JSf4-11 (JE4-19)	PVC	100	92.62	
6058	PE4-5960	JE4-18	JE4-2498	PVC	100	123.96	
6059	PE4-5961	JE4-2498	JE4-1944	PVC	100	133.08	
6060	PE4-5963	JSf4-13 (JE4)	JSf4-2499 (JE4)	PVC	100	95.97	
6061	PE4-5964	JSf4-2499 (JE4)	JSf4-03 (JE4-14)	PVC	100	49.30	
2461	PE4-6877	JSf4-11 (JE4)	JSf4-020 (JE4)	PVC	100	110.18	
6111	PSf4-6019 (PE4)	JSf4-1997 (JE4)	JSf4-2520 (JE4)	PVC	100	118.02	
6112	PSf4-6020 (PE4)	JSf4-2520 (JE4)	JSf4-2519 (JE4)	PVC	100	146.21	
3599	PSf4-6815 (PE4)	JSf4-2519 (JE4)	JSf4-10 (JE4)	PVC	100	197.80	
2443	PSf4-23 (PE4)	JSf4-09 (JE4-07)	JSf4-1400 (JE4)	PVC	100	34.02	
5292	PSf4-4834 (PE4)	JSf4-150 (JE4)	JSf4-2089 (JE4)	PVC	100	54.01	
5293	PSf4-4835 (PE4)	JSf4-2089 (JE4)	JSf4-1994 (JE4)	PVC	100	144.57	
5317	PSf4-4875 (PE4)	JSf4-1994 (JE4)	JSf4-2106 (JE4)	PVC	100	154.51	
5318	PSf4-4876 (PE4)	JSf4-2106 (JE4)	JSf4-11 (JE4-19)	PVC	100	146.84	
5160	PSf4-4662 (PE4)	JSf4-1400 (JE4)	JSf4-2012 (JE4)	PVC	100	48.11	
5161	PSf4-4663 (PE4)	JSf4-2012 (JE4)	JSf4-1997 (JE4)	PVC	100	198.66	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
φ100 Total						4,979.45	
4560	PE4-4496	JSf4-03 (JE4-14)	JSf4-1935 (JE4)	PE	80	84.25	
4561	PE4-4497	JSf4-1935 (JE4)	JSf4-16 (JE4)	PE	80	201.00	
5130	PE4-4618	JSf4-03 (JE4)	JE4-04	PVC	80	129.80	
5170	PE4-4676	JSf4-09 (JE4)	JE4-2018	PVC	80	194.05	
5171	PE4-4677	JE4-2018	JE4-23	PVC	80	164.51	
6077	PE4-5981	JSf4-03 (JE4-14)	JSf4-2505 (JE4)	PVC	80	96.92	
6083	PE4-5988	JSf4-2505 (JE4)	JSf4-2509 (JE4)	PVC	80	207.74	
6088	PE4-5994	JSf4-2509 (JE4)	JSf4-2511 (JE4)	PVC	80	242.43	
6089	PE4-5995	JSf4-2511 (JE4)	JSf4-15 (JE4)	PVC	80	42.44	
φ80 Total						1,363.14	
5206	PE4-4736	JE4-2051	JE4-23	PVC	50	77.10	
5207	PE4-4737	JE4-2052	JE4-2051	PVC	50	68.59	
2784	PE4-4697	JE4-23	JSf4-2030 (JE4)	PVC	50	67.25	
5180	PE4-4698	JSf4-2030 (JE4)	JE4-2031	PVC	50	162.29	
5182	PE4-4700	JE4-2031	JE4-2032	PVC	50	103.19	
5185	PE4-4704	JE4-2033	JE4-2034	PVC	50	84.03	
5187	PE4-4706	JE4-2034	JE4-2035	PVC	50	85.18	
5188	PE4-4708	JE4-2035	JE4-24	PVC	50	74.77	
5211	PE4-4745	JE4-2055	JSf4-21 (JE4)	PVC	50	125.07	
5212	PE4-4747	JE4-20	JE4-2056	PVC	50	262.38	
5213	PE4-4748	JE4-2056	JE4-2055	PVC	50	112.63	
2420	PE4-684	JE4-2017	JE4-2052	PVC	50	113.20	
3694	PE4-6884	JE4-2032	JE4-2033	PVC	50	113.75	
2777	PE4-734	JSf4-21 (JE4)	JSf4-391 (JE4)	PVC	50	217.33	
φ50 Total						1,666.76	

DSD 2
Distribution Main Pipelines
(F/S: Central Zone)

DSD2 Distribution Main Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
Distribution Main Pipelines (F/S)						31,676.80	Total
2737	PM-01	Tank P	JM-01	Ductile Iron	1,000	4,151.61	
2738	PM-02	JM-01	JM-02	Ductile Iron	1,000	296.92	
φ1,000 Total						4,448.53	Q4 Area
2476	PM-03	JM-02	JM-03	Ductile Iron	900	649.08	
2753	PM-04	JM-03	JM-04	Ductile Iron	900	642.24	
2477	PM-06	JM-04	JM-05	Ductile Iron	900	207.15	
2478	PM-07	JM-05	JM-06	Ductile Iron	900	547.49	
2479	PM-08	JM-06	JM-07	Ductile Iron	900	420.92	
2480	PM-09	JM-07	JM-08	Ductile Iron	900	141.13	
φ900 Total						2,608.01	Q4 Area
2481	PM-10	JM-08	JM-09	Ductile Iron	800	1,211.94	
2482	PM-11	JM-09	JM-10	Ductile Iron	800	74.51	
2742	PM-12	JM-10	JM-11	Ductile Iron	800	732.46	
2771	PM-13	JM-11	JM-12	Ductile Iron	800	104.58	
2772	PM-14	JM-12	JM-13	Ductile Iron	800	513.60	
2729	PM-15	JM-13	JM-14	Ductile Iron	800	555.05	Q4 Area
2483	PM-16	JM-14	JM-15	Ductile Iron	800	49.94	3,242.08
2484	PM-17	JM-15	JM-16	Ductile Iron	800	821.33	
2485	PM-18	JM-16	JM-17	Ductile Iron	800	1,012.02	
2486	PM-19	JM-17	JM-18	Ductile Iron	800	250.95	
2487	PM-20	JM-18	JM-19	Ductile Iron	800	648.38	
2488	PM-21	JM-19	JM-20	Ductile Iron	800	573.36	
2489	PM-22	JM-20	JM-21	Ductile Iron	800	1,161.45	Q2 Area
2490	PM-23	JM-21	JM-22 (JE2)	Ductile Iron	800	745.44	5,212.93
2788	PM-40	JM-39	JM-40	Ductile Iron	800	506.79	
2502	PM-41	JM-42	JM-43	Ductile Iron	800	1,085.46	
2500	PM-41'	JM-40	JM-41	Ductile Iron	800	503.06	
2501	PM-42	JM-41	JM-42	Ductile Iron	800	139.56	
2503	PM-45	JM-44	JM-41	Ductile Iron	800	451.71	
2492	PM-50	JM-10	JM-43	Ductile Iron	800	298.26	
2748	PM-51	JM-08	JM-44	Ductile Iron	800	1,490.72	
3635	PM-6885	JM-39	JM-38	Ductile Iron	800	491.67	Q4 Area
3636	PM-6886	JM-38	JM-37	Ductile Iron	800	216.82	5,184.05
2495	PK-01	Tank K	JSm2-01 (KTC)	Ductile Iron	800	3,224.98	KTC(Q2Area)↓
2496	PK-02	JSm2-01 (KTC)	JK-02 (JE2)	Ductile Iron	800	21.63	3,246.61
2491	PM-24	JM-22 (JE2)	JM-23 (JE1)	Ductile Iron	800	17.45	
2516	PM-25	JM-23 (JE1)	JM-24	Ductile Iron	800	731.47	

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2515	PM-26	JM-24	JM-25	Ductile Iron	800	45.75	
2513	PM-27	JM-25	JM-26	Ductile Iron	800	270.28	
2514	PM-28	JM-26	JM-27	Ductile Iron	800	537.74	
2394	PM-30	JM-27	JM-28	Ductile Iron	800	955.87	
2520	PM-31	JM-28	JM-29 (JE1-20)	Ductile Iron	800	298.38	
2521	PM-32	JM-29 (JE1-20)	JM-30	Ductile Iron	800	667.76	KTC(Q1Area)↓
2518	PM-33	JM-30	JM-31	Ductile Iron	800	98.97	3,623.67
3626	PM-34	JM-31	JM-32	Ductile Iron	800	505.65	
2464	PM-35	JM-32	JM-33	Ductile Iron	800	746.95	
2519	PM-36	JM-33	JM-34	Ductile Iron	800	874.72	
3391	PM-36'	JM-34	JM-35	Ductile Iron	800	994.79	
4348	PM-38	JM-35	JM-36 (JE3)	Ductile Iron	800	964.02	KTC(Q3Area)↓
2494	PM-39	JM-37	JM-36 (JE3)	Ductile Iron	800	24.79	4,110.92
φ800 Total						24,620.26	

DSD 3
Sub-Main and
Branch Distribution Pipelines
(F/S: Central Zone)

DSD 3 Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
Q1 Block						104,932.22	Total
3216	PSf1-1613	JSf1-04	JSf1-762	Ductile Iron	300	99.89	
3483	PSf1-1926	JSf1-736	JSf1-883	Ductile Iron	300	85.87	
3484	PSf1-1927	JSf1-883	JM-28	Ductile Iron	300	304.60	
3496	PSf1-1940	JSf1-730	JSf1-888	Ductile Iron	300	91.79	
3497	PSf1-1941	JSf1-888	JSf1-736	Ductile Iron	300	102.49	
2395	PSf1-20	JSf1-16 (JE1-17)	JSf1-22 (JE1-20)	Ductile Iron	300	250.30	
6358	PSf1-7051	JSf1-16 (JE1-17)	JSf1-2868	Ductile Iron	300	157.05	
6359	PSf1-7052	JSf1-2868	JSf1-730	Ductile Iron	300	140.91	KTC Total↓
Drantage				Ductile Iron	300	10.00	1,143.01
φ300 Total						1,242.90	
2643	PSf1-1009	JSf1-09	JSf1-520	Ductile Iron	250	136.60	
2644	PSf1-1010	JSf1-520	JSf1-503	Ductile Iron	250	148.30	
2662	PSf1-1032	JSf1-10	JSf1-528	Ductile Iron	250	161.36	
2663	PSf1-1033	JSf1-528	JSf1-516	Ductile Iron	250	137.64	
2673	PSf1-1048	JSf1-503	JSf1-533	Ductile Iron	250	128.60	
2674	PSf1-1049	JSf1-533	JSf1-13(PE 1)	Ductile Iron	250	132.38	
2808	PSf1-1071	JSf1-516	JSf1-541	Ductile Iron	250	134.61	
2809	PSf1-1072	JSf1-541	JSf1-14	Ductile Iron	250	106.16	
2814	PSf1-1080	JSf1-228	JSf1-544	Ductile Iron	250	91.29	
2832	PSf1-1101	JSf1-477	JSf1-05	Ductile Iron	250	72.20	
2833	PSf1-1102	JSf1-05	JM-24	Ductile Iron	250	16.43	
2846	PSf1-1118	JSf1-04	JSf1-557	Ductile Iron	250	137.41	
2850	PSf1-1124	JSf1-557	JSf1-559	Ductile Iron	250	130.49	
2851	PSf1-1125	JSf1-559	JSf1-460	Ductile Iron	250	137.96	
2853	PSf1-1130	JSf1-562	JSf1-517	Ductile Iron	250	98.24	
2863	PSf1-1141	JSf1-06	JSf1-566	Ductile Iron	250	82.22	
2864	PSf1-1142	JSf1-566	JSf1-471	Ductile Iron	250	97.09	
2872	PSf1-1150	JSf1-465	JSf1-569	Ductile Iron	250	95.28	
2873	PSf1-1151	JSf1-569	JSf1-486	Ductile Iron	250	95.08	
2887	PSf1-1165	JSf1-471	JSf1-574	Ductile Iron	250	89.25	
2888	PSf1-1166	JSf1-574	JSf1-468	Ductile Iron	250	101.66	
2896	PSf1-1174	JSf1-461	JSf1-577	Ductile Iron	250	100.64	
2897	PSf1-1175	JSf1-577	JSf1-497	Ductile Iron	250	96.82	
2911	PSf1-1189	JSf1-474	JSf1-582	Ductile Iron	250	103.17	
2912	PSf1-1190	JSf1-582	JSf1-228	Ductile Iron	250	101.86	
2921	PSf1-1199	JSf1-07	JSf1-585	Ductile Iron	250	159.27	
2922	PSf1-1200	JSf1-585	JSf1-10	Ductile Iron	250	119.48	
2925	PSf1-1231	JSf1-587	JSf1-600	Ductile Iron	250	63.94	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2926	PSf1-1232	JSf1-600	JSf1-443	Ductile Iron	250	106.91	
3009	PSf1-1333	JSf1-642	JSf1-641	Ductile Iron	250	42.08	
3028	PSf1-1346	JSf1-04999 99	JSf1-647	Ductile Iron	250	96.00	
3047	PSf1-1367	JSf1-647	JSf1-657	Ductile Iron	250	93.16	
3048	PSf1-1368	JSf1-657	JSf1-14	Ductile Iron	250	100.12	
3068	PSf1-1400	JSf1-641	JSf1-669	Ductile Iron	250	111.13	
3084	PSf1-1423	JSf1-669	JSf1-683	Ductile Iron	250	116.03	
3101	PSf1-1441	JSf1-683	JSf1-692	Ductile Iron	250	162.89	
3138	PSf1-1490	JSf1-692	JSf1-709	Ductile Iron	250	128.52	
3139	PSf1-1491	JSf1-709	JSf1-18	Ductile Iron	250	217.35	
3147	PSf1-1501	JSf1-18	JSf1-713	Ductile Iron	250	98.39	
3148	PSf1-1502	JSf1-713	JSf1-714	Ductile Iron	250	118.72	
3157	PSf1-1512	JE1-12	JSf1-718	Ductile Iron	250	104.45	
3158	PSf1-1513	JSf1-718	JSf1-235	Ductile Iron	250	88.74	
3217	PSf1-1614	JSf1-762	JSf1-483	Ductile Iron	250	93.81	
3326	PSf1-1628	JSf1-544	JSf1-767	Ductile Iron	250	88.74	
3327	PSf1-1629	JSf1-767	JSf1-07	Ductile Iron	250	107.76	
3381	PSf1-1701	JSf1-797	JSf1-26(JE1 -24)	Ductile Iron	250	75.11	
3435	PSf1-1771	JSf1-18	JSf1-825	Ductile Iron	250	93.16	
3436	PSf1-1772	JE1-22	JSf1-23	Ductile Iron	250	109.23	
3440	PSf1-1778	JSf1-23	JSf1-830	Ductile Iron	250	82.72	
3443	PSf1-1782	JSf1-830	JSf1-832	Ductile Iron	250	103.82	
3449	PSf1-1788	JSf1-825	JSf1-835	Ductile Iron	250	80.69	
3450	PSf1-1789	JSf1-835	JSf1-23	Ductile Iron	250	91.96	
3456	PSf1-1796	JSf1-23	JSf1-837	Ductile Iron	250	163.91	
3459	PSf1-1799	JSf1-837	JSf1-838	Ductile Iron	250	171.32	
3462	PSf1-1802	JSf1-838	JSf1-839	Ductile Iron	250	130.07	
3240	PSf1-1805	JSf1-839	JSf1-840	Ductile Iron	250	142.60	
3249	PSf1-1814	JSf1-27'	JSf1-27	Ductile Iron	250	119.54	
3251	PSf1-1816	JSf1-840	JSf1-27	Ductile Iron	250	95.26	
3270	PSf1-1840	JSf1-852	JSf1-519	Ductile Iron	250	98.51	
3283	PSf1-1857	JSf1-10	JSf1-858	Ductile Iron	250	108.29	
3284	PSf1-1858	JSf1-858	JSf1-562	Ductile Iron	250	81.65	
3295	PSf1-1870	JSf1-862	JSf1-852	Ductile Iron	250	92.39	
3314	PSf1-1890	JSf1-04	JSf1-4000	Ductile Iron	250	56.22	
3474	PSf1-1911	JSf1-877	JBf1-4111	Ductile Iron	250	97.95	
3479	PSf1-1916	JSf1-879	JSf1-877	Ductile Iron	250	174.42	
2453	PSf1-353	JBf1-4111	JSf1-04	Ductile Iron	250	132.54	
2517	PSf1-387	JSf1-18	JSf1-235	Ductile Iron	250	99.91	
2526	PSf1-6701	JSf1-14	JSf1-862	Ductile Iron	250	130.68	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2527	PSf1-6702	JSf1-14	JSf1-642	Ductile Iron	250	166.47	
2625	PSf1-6798	JSf1-03	JSf1-431	Ductile Iron	250	196.93	
2626	PSf1-6799	JSf1-439	JSf1-03	Ductile Iron	250	34.34	
6332	PSf1-6941	JSf2-2828	JSf2-07	Ductile Iron	250	129.00	
6350	PSf1-6960	JSf1-443	JSf1-2835	Ductile Iron	250	70.76	
6351	PSf1-6961	JSf1-2835	JSf1-03111 1	Ductile Iron	250	158.62	
2460	PSf1-759	JSf1-02 (JE1)	JSf1-424	Ductile Iron	250	156.27	
2780	PSf1-760	JSf1-424	JSf1-425	Ductile Iron	250	124.47	
2579	PSf1-777	JSf1-431	JSf1-436	Ductile Iron	250	174.99	
2794	PSf1-791	JSf1-425	JSf1-439	Ductile Iron	250	202.30	
2618	PSf1-848	JSf1-03111 1	JSf1-03	Ductile Iron	250	182.28	
2531	PSf1-884	JSf1-468	JSf1-474	Ductile Iron	250	100.83	
2532	PSf1-891	JSf1-436	JSf1-477	Ductile Iron	250	139.23	
2539	PSf1-902	JSf1-460	JSf1-481	Ductile Iron	250	125.17	
2540	PSf1-903	JSf1-481	JSf1-07	Ductile Iron	250	120.71	
2542	PSf1-908	JSf1-483	JSf1-461	Ductile Iron	250	94.45	
2547	PSf1-917	JSf1-486	JSf1-03	Ductile Iron	250	192.28	
2550	PSf1-922	JM-25	JSf1-06	Ductile Iron	250	13.26	
2553	PSf1-931	JSf1-06	JSf1-491	Ductile Iron	250	137.59	
2554	PSf1-932	JSf1-491	JSf1-09	Ductile Iron	250	131.66	
2563	PSf1-946	JSf1-497	JSf1-465	Ductile Iron	250	103.46	
2637	PSf1-988	JSf1-04999 99	JSf1-512	Ductile Iron	250	89.63	
2638	PSf1-989	JSf1-512	JE1-10	Ductile Iron	250	111.91	10,438.79
2972	PSf1-1276	JSf1-12 (JE1)	JSf1-615	Ductile Iron	250	92.75	
2977	PSf1-1283	JSf1-615	JSf1-618	Ductile Iron	250	55.87	
2978	PSf1-1284	JSf1-618	JE1-13	Ductile Iron	250	114.71	
2994	PSf1-1301	JSf1-13 (PE1)	JSf1-624	Ductile Iron	250	58.43	
2995	PSf1-1302	JSf1-624	JSf1-626	Ductile Iron	250	79.27	
2996	PSf1-1303	JSf1-626	JSf1-627	Ductile Iron	250	71.16	
2997	PSf1-1306	JSf1-627	JSf1-628	Ductile Iron	250	75.14	
3071	PSf1-1405	JSf1-628	JSf1-671	Ductile Iron	250	130.61	
3076	PSf1-1412	JSf1-671	JSf1-676	Ductile Iron	250	88.22	
3104	PSf1-1446	JSf1-676	JSf1-685	Ductile Iron	250	130.05	
3110	PSf1-1457	JSf1-685	JSf1-696	Ductile Iron	250	133.68	
3111	PSf1-1458	JSf1-696	JSf1-674	Ductile Iron	250	133.59	
3162	PSf1-1518	JM-28	JSf1-17	Ductile Iron	250	162.53	
3163	PSf1-1519	JSf1-17	JE1-11	Ductile Iron	250	73.52	
3164	PSf1-1520	JSf1-674	JSf1-17	Ductile Iron	250	93.94	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3202	PSf1-1582	JSf1-16 (JE1-17)	JE1-749	Ductile Iron	250	185.06	
2447	PSf1-334	JSf1-26 (JE1-24)	JM-30	Ductile Iron	250	24.92	KTC Total↓
2628	PSf1-967	JSf1-13 (PE1)	JM-27	Ductile Iron	250	15.29	1,718.74
φ250 Total						12,157.53	
3380	PSf1-1700	JSf1-794	JSf1-797	Ductile Iron	200	127.66	
3384	PSf1-1705	JSf1-798	JSf1-794	Ductile Iron	200	177.02	
3398	PSf1-1725	JSf1-807	JSf1-798	Ductile Iron	200	67.77	
3400	PSf1-1728	JSf1-808	JSf1-807	Ductile Iron	200	77.89	
3423	PSf1-1755	JSf1-27'	JSf1-820	Ductile Iron	200	146.17	
3424	PSf1-1756	JSf1-820	JSf1-808	Ductile Iron	200	161.80	
3247	PSf1-1812	JSf1-843	JSf1-27'	Ductile Iron	200	228.86	987.17
3354	PSf1-1663	JSf1-779	JSf1-24 (JE1)	Ductile Iron	200	176.99	
3362	PSf1-1674	JE1-23	JSf1-784	Ductile Iron	200	236.80	
2703	PSf1-6891	JSf1-784	JSf1-25	Ductile Iron	200	214.10	
2787	PSf1-6892	JSf1-25	JM-30	Ductile Iron	200	24.08	
6424	PSf1-7101	JSf1-300	JSf1-779	Ductile Iron	200	246.14	
6425	PSf1-7102	JSf1-19 (JE1-07)	JSf1-300	Ductile Iron	200	315.14	
6431	PSf1-7108	JE1-23	JE1-776	Ductile Iron	200	214.54	
6432	PSf1-7109	JE1-776	JE1-774	Ductile Iron	200	205.05	KTC Total↓
6433	PSf1-7110	JE1-774	JSf1-24 (JE1)	Ductile Iron	200	191.37	1,824.21
φ200 Total						2,811.38	
2651	P1-1020	JB1-475	JB1-524	PE	80	125.97	
2652	P1-1022	JB1-523	JB1-524	PE	80	96.47	
2653	P1-1023	JB1-501	JB1-525	PE	80	128.18	
2654	P1-1024	JB1-525	JB1-513	PE	80	132.82	
3281	P1-1855	JSf1-07	JB1-857	PE	80	92.13	
2655	P-1025	JB1-524	JB1-525	PE	80	106.83	
2656	P-1026	JB1-511	JB1-526	PE	80	127.71	
2657	P-1027	JB1-526	JB1-514	PE	80	133.30	
2658	P-1028	JB1-525	JB1-526	PE	80	105.16	
2661	P-1031	JB1-526	JB1-527	PE	80	89.00	
2664	P-1035	JB1-521	JB1-529	PE	80	141.06	
2665	P-1037	JSf1-503	JB1-529	PE	80	76.55	
2667	P-1040	JB1-529	JB1-530	PE	80	111.21	
2668	P-1041	JB1-523	JB1-531	PE	80	129.10	
2669	P-1043	JB1-530	JB1-531	PE	80	86.27	
2670	P-1044	JB1-524	JB1-532	PE	80	137.01	
2671	P-1046	JB1-531	JB1-532	PE	80	98.97	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2672	P-1047	JB1-532	JB1-513	PE	80	104.56	
2675	P-1050	JB1-529	JB1-534	PE	80	136.02	
2676	P-1051	JB1-534	JE1-473	PE	80	135.88	
2677	P-1052	JSf1-533	JB1-534	PE	80	71.51	
2680	P-1055	JB1-534	JB4-535	PE	80	116.30	
2681	P-1056	JB1-531	JB1-536	PE	80	147.66	
2682	P-1057	JB1-536	JE1-510	PE	80	130.00	
2683	P-1058	JB4-535	JB1-536	PE	80	82.58	
2684	P-1059	JB1-532	JB1-537	PE	80	136.01	
2797	P-1060	JB1-537	JE1-490	PE	80	134.56	
2798	P-1061	JB1-536	JB1-537	PE	80	99.06	
2799	P-1062	JB1-513	JB1-538	PE	80	136.25	
2800	P-1063	JB1-538	JE1-10	PE	80	137.97	
2801	P-1064	JB1-537	JB1-538	PE	80	105.12	
2802	P-1065	JB1-514	JB1-539	PE	80	144.98	
2803	P-1066	JB1-539	JSf1-512	PE	80	129.98	
2804	P-1067	JB1-538	JB1-539	PE	80	116.52	
2807	P-1070	JB1-539	JB1-540	PE	80	83.88	
2810	P-1074	JB1-518	JB1-542	PE	80	138.05	
2811	P-1075	JB1-542	JSf1-519	PE	80	132.44	
2812	P-1077	JSf1-517	JB1-543	PE	80	227.20	
2813	P-1078	JB1-543	JB1-518	PE	80	134.72	
2815	P-1082	JB1-485	JSf1-544	PE	80	123.22	
2816	P-1083	JB1-02	JB1-545	PE	80	100.93	
2817	P-1086	JB1-451	JB1-505	PE	80	239.55	
2818	P-1087	JB1-433	JB1-546	PE	80	166.41	
2819	P-1088	JB1-546	JB1-445	PE	80	215.82	
2822	P-1091	JB1-546	JE1-547	PE	80	158.86	
2823	P-1092	JB1-434	JB1-548	PE	80	174.13	
2824	P-1093	JB1-548	JB1-455	PE	80	215.76	
2825	P-1094	JB1-546	JB1-548	PE	80	130.01	
2826	P-1095	JB1-435	JB1-549	PE	80	188.78	
2827	P-1096	JB1-549	JB1-446	PE	80	214.10	
2828	P-1097	JB1-548	JB1-549	PE	80	135.44	
2829	P-1098	JB1-441	JB1-550	PE	80	180.96	
2830	P-1099	JB1-550	JB1-457	PE	80	199.90	
2831	P-1100	JB1-549	JB1-550	PE	80	133.93	
2834	P-1103	JB1-550	JSf1-05	PE	80	170.69	
2835	P-1104	JSf1-486	JB1-552	PE	80	155.96	
2836	P-1105	JB1-552	JB1-469	PE	80	112.34	
2837	P-1106	JSf1-465	JB1-553	PE	80	142.22	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2838	P-1107	JB1-553	JB1-466	PE	80	123.66	
2839	P-1109	JSf1-497	JB1-554	PE	80	137.00	
2840	P-1110	JB1-554	JB1-498	PE	80	130.13	
2841	P-1111	JB1-553	JB1-554	PE	80	106.55	
2844	P-1115	JSf1-483	JB1-556	PE	80	134.13	
2845	P-1117	JB1-555	JB1-556	PE	80	95.59	
2847	P-1121	JB1-556	JB1-558	PE	80	126.79	
2848	P-1122	JB1-558	JB1-484	PE	80	137.49	
2849	P-1123	JB1-463	JB1-558	PE	80	93.36	
2852	P-1128	JB1-560	JB1-561	PE	80	239.61	
2854	P-1131	JB1-561	JSf1-562	PE	80	211.04	
2855	P-1133	JSf1-431	JB1-563	PE	80	89.80	
2856	P-1134	JB1-563	JB1-469	PE	80	99.65	
2857	P-1135	JSf1-436	JB1-564	PE	80	92.34	
2858	P-1136	JB1-564	JB1-470	PE	80	94.82	
2859	P-1137	JB1-563	JB1-564	PE	80	157.25	
2860	P-1138	JSf1-477	JB1-565	PE	80	93.25	
2861	P-1139	JB1-565	JB1-478	PE	80	95.74	
2862	P-1140	JB1-564	JB1-565	PE	80	140.77	
2865	P-1143	JB1-565	JSf1-566	PE	80	136.00	
2866	P-1144	JSf1-491	JB1-567	PE	80	91.28	
2867	P-1145	JB1-567	JB1-492	PE	80	96.28	
2868	P-1146	JSf1-566	JB1-567	PE	80	138.18	
2869	P-1147	JB1-567	JB1-472	PE	80	137.35	
2874	P-1152	JB1-568	JSf1-569	PE	80	132.84	
2875	P-1153	JB1-552	JB1-570	PE	80	77.98	
2876	P-1154	JB1-570	JB1-553	PE	80	91.48	
2877	P-1155	JSf1-569	JB1-570	PE	80	144.06	
2878	P-1156	JB1-469	JB1-571	PE	80	94.71	
2879	P-1157	JB1-571	JB1-466	PE	80	94.84	
2880	P-1158	JB1-570	JB1-571	PE	80	123.05	
2881	P-1159	JB1-470	JB1-572	PE	80	95.10	
2882	P-1160	JB1-572	JB1-467	PE	80	93.27	
2883	P-1161	JB1-571	JB1-572	PE	80	137.49	
2884	P-1162	JB1-478	JB1-573	PE	80	94.95	
2885	P-1163	JB1-573	JB1-479	PE	80	98.06	
2886	P-1164	JB1-572	JB1-573	PE	80	137.74	
2889	P-1167	JB1-573	JSf1-574	PE	80	141.79	
2890	P-1168	JB1-492	JB1-575	PE	80	91.59	
2891	P-1169	JB1-575	JB1-493	PE	80	97.25	
2892	P-1170	JSf1-574	JB1-575	PE	80	135.48	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2893	P-1171	JB1-575	JB1-509	PE	80	142.61	
2898	P-1176	JB1-576	JSf1-577	PE	80	136.43	
2899	P-1177	JB1-554	JB1-578	PE	80	103.34	
2900	P-1178	JB1-578	JB1-555	PE	80	94.28	
2901	P-1179	JSf1-577	JB1-578	PE	80	132.25	
2902	P-1180	JB1-498	JB1-579	PE	80	107.96	
2903	P-1181	JB1-579	JB1-463	PE	80	92.00	
2904	P-1182	JB1-578	JB1-579	PE	80	123.61	
2905	P-1183	JB1-499	JB1-580	PE	80	110.06	
2906	P-1184	JB1-580	JB1-459	PE	80	90.23	
2907	P-1185	JB1-579	JB1-580	PE	80	134.86	
2908	P-1186	JB1-500	JB1-581	PE	80	96.48	
2909	P-1187	JB1-581	JB1-480	PE	80	105.37	
2910	P-1188	JB1-580	JB1-581	PE	80	141.15	
2913	P-1191	JB1-581	JSf1-582	PE	80	133.06	
2914	P-1192	JB1-494	JB1-583	PE	80	98.74	
2915	P-1193	JB1-583	JB1-495	PE	80	101.81	
2916	P-1194	JSf1-582	JB1-583	PE	80	136.17	
2917	P-1195	JB1-583	JB1-511	PE	80	136.43	
2918	P-1196	JSf1-544	JB1-584	PE	80	139.13	
2919	P-1197	JB1-584	JB1-545	PE	80	133.54	
2920	P-1198	JB1-495	JB1-584	PE	80	90.22	
2927	P-1234	JB1-589	JB1-591	PE	80	100.65	
2928	P-1235	JB1-591	JB1-593	PE	80	114.85	
2929	P-1236	JB1-593	JB1-595	PE	80	80.41	
2930	P-1237	JB1-595	JB1-597	PE	80	93.48	
2931	P-1238	JB1-597	JB1-599	PE	80	101.40	
2932	P-1239	JB1-448	JB1-452	PE	80	172.23	
2933	P-1240	JB1-505	JB1-601	PE	80	95.34	
2934	P-1242	JB1-452	JB1-601	PE	80	207.13	
2936	P-1245	JB1-601	JE1-602	PE	80	200.93	
2937	P-1246	JB1-601	JB1-603	PE	80	196.71	
2938	P-1247	JB1-603	JB1-506	PE	80	92.64	
2941	P-1250	JB1-603	JE1-604	PE	80	231.51	
2952	P-1254	JB1-606	JSf1-503	PE	80	143.91	
2953	P-1255	JB1-605	JB1-607	PE	80	155.02	
2954	P-1256	JB1-607	JB1-606	PE	80	168.06	
2955	P-1257	JB1-453	JB1-607	PE	80	176.83	
2956	P-1258	JB1-607	JSf1-520	PE	80	169.96	
2957	P-1261	JB1-606	JE1-608	PE	80	222.51	
2958	P-1262	JB1-506	JB1-609	PE	80	89.20	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2959	P-1263	JB1-609	JB1-606	PE	80	98.02	
2962	P-1266	JB1-609	JE1-610	PE	80	216.60	
2963	P-1267	JB1-452	JB1-611	PE	80	116.13	
2964	P-1268	JB1-611	JB1-453	PE	80	75.79	
2965	P-1269	JB1-611	JB1-603	PE	80	135.68	
3002	P-1313	JE1-630	JB1-631	PE	80	184.80	
3004	P-1318	JB1-633	JB1-634	PE	80	196.56	
3008	P-1328	JB4-639	JB4-640	PE	80	195.36	
3010	P-1335	JB1-643	JSf1-519	PE	80	133.48	
3012	P-1337	JB1-527	JB1-644	PE	80	99.71	
3013	P-1339	JB1-545	JB1-644	PE	80	126.56	
3014	P-1340	JB1-515	JB1-645	PE	80	99.50	
3015	P-1342	JB1-644	JB1-645	PE	80	134.61	
3026	P-1343	JB1-540	JB1-646	PE	80	96.34	
3027	P-1345	JB1-645	JB1-646	PE	80	143.25	
3029	P-1348	JB1-646	JSf1-647	PE	80	109.97	
3030	P-1349	JB1-634	JB1-648	PE	80	98.08	
3031	P-1351	JSf1-647	JB1-648	PE	80	186.47	
3032	P-1352	JB1-648	JB1-649	PE	80	122.47	
3033	P-1353	JB1-649	JB1-650	PE	80	138.95	
3034	P-1354	JB1-650	JB1-651	PE	80	140.20	
3035	P-1355	JB1-651	JB1-652	PE	80	130.20	
3036	P-1356	JB1-545	JB1-653	PE	80	94.40	
3037	P-1357	JB1-653	JSf1-10	PE	80	109.45	
3038	P-1358	JB1-644	JB1-654	PE	80	92.15	
3039	P-1359	JB1-654	JSf1-528	PE	80	105.52	
3040	P-1360	JB1-653	JB1-654	PE	80	131.98	
3041	P-1361	JB1-645	JB1-655	PE	80	96.56	
3042	P-1362	JB1-655	JSf1-516	PE	80	98.19	
3043	P-1363	JB1-654	JB1-655	PE	80	136.60	
3044	P-1364	JB1-646	JB1-656	PE	80	93.47	
3045	P-1365	JB1-656	JSf1-541	PE	80	104.15	
3046	P-1366	JB1-655	JB1-656	PE	80	141.18	
3049	P-1369	JB1-656	JSf1-657	PE	80	107.85	
3050	P-1370	JB1-648	JB1-658	PE	80	106.21	
3051	P-1371	JB1-658	JSf1-641	PE	80	98.11	
3052	P-1372	JSf1-657	JB1-658	PE	80	200.77	
3053	P-1373	JB1-658	JB1-659	PE	80	113.34	
3054	P-1374	JB1-659	JB1-660	PE	80	125.41	
3055	P-1375	JB1-660	JB1-661	PE	80	152.44	
2622	P-1379	JB1-457	JSf1-491	PE	80	249.36	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3059	P-1383	JE1-663	JB4-637	PE	80	192.96	
3018	P-1384	JB1-631	JB1-633	PE	80	110.97	
3060	P-1390	JE1-10	JB1-633	PE	80	119.67	
3061	P-1391	JB1-633	JB4-639	PE	80	88.45	
3062	P-1392	JE1-07'	JB1-665	PE	80	110.11	
3063	P-1393	JB1-665	JB1-666	PE	80	90.28	
3064	P-1394	JB1-666	JB4-667	PE	80	106.47	
3066	P-1398	JB1-668	JB1-649	PE	80	98.18	
3067	P-1399	JB1-649	JB1-659	PE	80	97.17	
3069	P-1402	JB1-659	JSf1-669	PE	80	102.67	
3070	P-1404	JB1-670	JB1-643	PE	80	153.39	
3079	P-1416	JE1-677	JB1-678	PE	80	97.25	
3080	P-1417	JB1-678	JB1-679	PE	80	99.39	
3081	P-1418	JB1-679	JB4-680	PE	80	98.67	
3082	P-1419	JB4-680	JB1-681	PE	80	105.84	
3083	P-1422	JB1-650	JB1-660	PE	80	93.26	
3085	P-1425	JB1-660	JSf1-683	PE	80	99.46	
3086	P-1427	JB1-684	JB1-670	PE	80	139.39	
3090	P-1432	JE1-686	JB1-687	PE	80	95.00	
3091	P-1433	JB1-687	JB1-688	PE	80	105.38	
3092	P-1434	JB1-688	JB4-689	PE	80	90.43	
3093	P-1435	JB4-689	JB1-690	PE	80	112.71	
3098	P-1438	JB1-690	JB1-691	PE	80	85.47	
3099	P-1439	JB1-691	JB1-651	PE	80	98.44	
3100	P-1440	JB1-651	JB1-661	PE	80	92.37	
3102	P-1443	JB1-661	JSf1-692	PE	80	107.28	
3103	P-1445	JB1-693	JB1-684	PE	80	135.09	
3105	P-1447	JB1-665	JB1-678	PE	80	130.90	
3106	P-1448	JB1-678	JB1-687	PE	80	143.79	
3021	P-1450	JE1-490	JB1-631	PE	80	103.94	
3022	P-1451	JB1-631	JB4-637	PE	80	106.24	
3094	P-1452	JB4-637	JB1-666	PE	80	70.67	
3095	P-1453	JB1-666	JB1-679	PE	80	127.77	
3107	P-1454	JB1-679	JB1-688	PE	80	142.87	
3108	P-1455	JB1-688	JB1-694	PE	80	129.74	
3109	P-1456	JB1-694	JB1-695	PE	80	139.10	
3115	P-1462	JE1-697	JB1-698	PE	80	99.28	
3116	P-1463	JB1-698	JB1-694	PE	80	95.97	
3117	P-1464	JB1-687	JB1-698	PE	80	128.85	
3118	P-1465	JB1-698	JB1-699	PE	80	145.21	
3119	P-1466	JE1-675	JB1-699	PE	80	106.13	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3120	P-1467	JB1-699	JB1-695	PE	80	96.15	
3121	P-1468	JB1-695	JB1-700	PE	80	93.29	
3122	P-1469	JB1-700	JB1-701	PE	80	88.49	
3124	P-1472	JB1-701	JB1-702	PE	80	107.46	
3125	P-1475	JB1-681	JB1-703	PE	80	93.19	
3126	P-1476	JB1-703	JB1-650	PE	80	98.06	
3127	P-1477	JB4-667	JB1-704	PE	80	106.60	
3128	P-1478	JB1-704	JB1-668	PE	80	88.78	
3129	P-1479	JB1-704	JB1-681	PE	80	134.45	
3130	P-1480	JB1-681	JB1-690	PE	80	139.44	
3131	P-1481	JB1-690	JB1-705	PE	80	126.27	
3132	P-1482	JB1-705	JB1-701	PE	80	152.45	
3133	P-1483	JB1-694	JB4-706	PE	80	95.53	
3134	P-1484	JB4-706	JB1-705	PE	80	99.17	
3135	P-1487	JB1-661	JB1-708	PE	80	126.21	
3136	P-1488	JB1-708	JSf1-235	PE	80	223.90	
3137	P-1489	JB1-652	JB1-708	PE	80	95.40	
3140	P-1492	JB1-708	JSf1-709	PE	80	100.41	
3141	P-1494	JB1-710	JB1-693	PE	80	135.80	
3144	P-1497	JB1-705	JB1-711	PE	80	97.25	
3145	P-1498	JB1-711	JB1-652	PE	80	97.34	
3146	P-1499	JSf1-709	JB1-712	PE	80	97.09	
3150	P-1503	JB1-712	JB1-715	PE	80	131.59	
3151	P-1505	JB1-715	JSf1-713	PE	80	77.55	
3152	P-1507	JB1-712	JB1-716	PE	80	114.42	
3153	P-1508	JB1-716	JB1-710	PE	80	63.73	
3154	P-1509	JB1-715	JB1-717	PE	80	115.34	
3155	P-1510	JB1-717	JSf1-714	PE	80	68.38	
3156	P-1511	JB1-716	JB1-717	PE	80	131.49	
3159	P-1514	JSf1-718	JB1-719	PE	80	184.76	
3161	P-1517	JB1-719	JE1-720	PE	80	76.56	
3214	P-1610	JB1-482	JB1-761	PE	80	96.07	
3218	P-1615	JB1-761	JSf1-762	PE	80	132.90	
3219	P-1616	JB1-556	JB1-763	PE	80	91.34	
3220	P-1617	JB1-763	JSf1-557	PE	80	99.05	
3221	P-1618	JSf1-762	JB1-763	PE	80	137.09	
3222	P-1619	JB1-558	JB1-764	PE	80	97.00	
3223	P-1620	JB1-764	JSf1-559	PE	80	98.81	
3224	P-1621	JB1-763	JB1-764	PE	80	129.79	
3225	P-1622	JB1-484	JB1-765	PE	80	89.68	
3226	P-1623	JB1-765	JSf1-460	PE	80	104.78	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3227	P-1624	JB1-764	JB1-765	PE	80	136.55	
3228	P-1625	JB1-485	JB1-766	PE	80	99.36	
3324	P-1626	JB1-766	JSf1-481	PE	80	103.85	
3325	P-1627	JB1-765	JB1-766	PE	80	131.62	
3328	P-1630	JB1-766	JSf1-767	PE	80	121.00	
3329	P-1631	JB1-584	JB1-768	PE	80	86.76	
3330	P-1632	JB1-768	JSf1-585	PE	80	47.01	
3331	P-1633	JSf1-767	JB1-768	PE	80	143.58	
3332	P-1634	JB1-768	JB1-653	PE	80	129.09	
3333	P-1635	JE1-502	JB1-769	PE	80	169.25	
3334	P-1636	JB1-769	JB1-505	PE	80	153.42	
3335	P-1637	JB1-450	JB1-769	PE	80	275.62	
3336	P-1638	JB1-769	JE1-612	PE	80	252.01	
3369	P-1683	JB1-787	JB1-788	PE	80	122.12	
3370	P-1684	JB1-788	JB1-789	PE	80	106.75	
3372	P-1690	JE1-791	JB1-787	PE	80	198.75	
3375	P-1692	JE1-792	JB1-788	PE	80	207.31	
3376	P-1693	JB1-788	JB1-793	PE	80	119.12	
3377	P-1697	JE1-786	JB1-795	PE	80	80.90	
3378	P-1698	JB1-795	JB1-787	PE	80	75.60	
3379	P-1699	JB1-795	JB1-796	PE	80	147.28	
3382	P-1702	JB1-796	JSf1-797	PE	80	139.85	
3383	P-1703	JB1-796	JB1-793	PE	80	185.80	
3385	P-1708	JB1-793	JB1-799	PE	80	120.95	
3386	P-1709	JB1-793	JB1-800	PE	80	78.96	
3387	P-1710	JB1-800	JSf1-794	PE	80	72.95	
3388	P-1711	JB1-799	JB1-801	PE	80	106.01	
3389	P-1712	JB1-801	JSf1-798	PE	80	139.37	
3390	P-1713	JB1-800	JB1-801	PE	80	144.52	
3393	P-1717	JB1-802	JB1-803	PE	80	124.64	
3394	P-1718	JB1-802	JB1-804	PE	80	167.24	
3395	P-1721	JB1-804	JB1-805	PE	80	103.96	
3396	P-1722	JB1-799	JB1-806	PE	80	70.68	
3397	P-1723	JB1-806	JB1-805	PE	80	72.75	
3399	P-1726	JB1-806	JSf1-807	PE	80	243.50	
3403	P-1733	JB1-789	JB1-810	PE	80	62.17	
3404	P-1734	JB1-810	JB1-799	PE	80	78.72	
3405	P-1736	JB1-811	JB1-805	PE	80	78.90	
3406	P-1737	JB1-810	JB1-811	PE	80	113.42	
3407	P-1738	JB1-789	JB1-812	PE	80	119.55	
3408	P-1739	JB1-812	JB4-790	PE	80	76.85	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3409	P-1740	JE1-809	JB1-813	PE	80	77.54	
3411	P-1741	JB1-813	JB1-814	PE	80	50.51	
3410	P-1742	JB1-812	JB1-813	PE	80	127.02	
3412	P-1743	JB1-814	JB1-811	PE	80	127.89	
3413	P-1744	JB1-814	JB1-815	PE	80	191.12	
3414	P-1745	JE1-720	JB1-815	PE	80	134.79	
3415	P-1746	JB1-805	JB1-816	PE	80	159.27	
3416	P-1747	JB1-816	JB1-802	PE	80	124.14	
3417	P-1748	JB1-815	JB1-817	PE	80	99.30	
3418	P-1749	JB1-817	JB1-816	PE	80	108.24	
3419	P-1750	JB1-811	JB1-817	PE	80	190.32	
3421	P-1753	JB1-816	JB1-818	PE	80	123.57	
3422	P-1754	JB1-802	JB1-819	PE	80	121.03	
3425	P-1757	JB1-819	JSf1-820	PE	80	62.20	
3428	P-1760	JB1-819	JB1-821	PE	80	137.83	
3429	P-1762	JB1-822	JB1-824	PE	80	133.56	
3430	P-1764	JB1-824	JB1-823	PE	80	139.25	
3431	P-1767	JSf1-235	JB1-826	PE	80	142.84	
3432	P-1768	JB1-826	JE1-22	PE	80	117.79	
3433	P-1769	JSf1-825	JB1-826	PE	80	120.68	
3434	P-1770	JB1-826	JB1-719	PE	80	118.25	
3437	P-1775	JSf1-714	JB1-828	PE	80	119.60	
3438	P-1776	JB1-828	JSf1-825	PE	80	115.46	
3439	P-1777	JB1-828	JB1-829	PE	80	117.07	
3441	P-1780	JB1-829	JSf1-830	PE	80	104.19	
3442	P-1781	JSf1-714	JB1-831	PE	80	160.24	
3445	P-1784	JB1-831	JSf1-832	PE	80	114.36	
3446	P-1785	JSf1-832	JB1-833	PE	80	165.58	
3447	P-1786	JB1-833	JB1-834	PE	80	173.43	
3448	P-1787	JB1-834	JB1-822	PE	80	93.66	
3451	P-1790	JSf1-835	JB1-829	PE	80	84.61	
3452	P-1791	JB1-829	JB1-831	PE	80	109.51	
3455	P-1794	JB1-836	JSf1-837	PE	80	104.84	
3457	P-1797	JB1-818	JSf1-838	PE	80	105.92	
3458	P-1798	JSf1-838	JB1-822	PE	80	92.55	
3460	P-1800	JB1-803	JSf1-839	PE	80	108.43	
3461	P-1801	JSf1-839	JB1-824	PE	80	104.32	
3463	P-1803	JB1-823	JSf1-840	PE	80	110.33	
3239	P-1804	JSf1-840	JB1-821	PE	80	108.36	
3241	P-1806	JSf1-837	JB1-841	PE	80	83.51	
3242	P-1807	JB1-841	JB1-833	PE	80	104.19	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3243	P-1808	JSf1-830	JB1-841	PE	80	162.86	
3244	P-1809	JB1-841	JB1-822	PE	80	175.71	
3245	P-1810	JB1-823	JB1-842	PE	80	106.78	
3248	P-1813	JB1-842	JSf1-843	PE	80	71.16	
3250	P-1815	JSf1-27	JB1-842	PE	80	108.99	
3252	P-1817	JB1-804	JB1-845	PE	80	108.49	
3253	P-1818	JB1-845	JSf1-808	PE	80	65.19	
3254	P-1819	JB1-819	JB1-845	PE	80	169.09	
3256	P-1822	JB1-701	JE1-846	PE	80	72.98	
3258	P-1824	JB1-700	JE1-847	PE	80	86.02	
3259	P-1825	JE1-847	JB4-790	PE	80	258.04	
3262	P-1828	JB1-695	JE1-848	PE	80	86.08	
3263	P-1829	JE1-848	JE1-792	PE	80	281.52	
3264	P-1831	JB1-849	JB1-543	PE	80	94.56	
3265	P-1832	JSf1-562	JB1-849	PE	80	204.48	
3266	P-1834	JB1-850	JB1-518	PE	80	95.93	
3267	P-1835	JB1-849	JB1-850	PE	80	137.46	
3268	P-1837	JB1-851	JB1-542	PE	80	99.70	
3269	P-1838	JB1-850	JB1-851	PE	80	136.90	
3271	P-1841	JB1-851	JSf1-852	PE	80	133.52	
3272	P-1843	JB1-853	JB1-643	PE	80	97.02	
3273	P-1844	JSf1-852	JB1-853	PE	80	134.12	
3274	P-1846	JB1-854	JB1-670	PE	80	99.70	
3275	P-1847	JB1-853	JB1-854	PE	80	152.11	
3276	P-1849	JB1-855	JB1-684	PE	80	101.18	
3277	P-1850	JB1-854	JB1-855	PE	80	130.96	
3278	P-1852	JB1-856	JB1-693	PE	80	88.44	
3279	P-1853	JB1-855	JB1-856	PE	80	144.70	
3280	P-1854	JB1-856	JB1-716	PE	80	136.22	
3282	P-1856	JB1-857	JB1-561	PE	80	89.71	
3285	P-1859	JB1-857	JSf1-858	PE	80	227.25	
3286	P-1860	JSf1-528	JB1-859	PE	80	96.82	
3287	P-1861	JB1-859	JB1-849	PE	80	93.29	
3288	P-1862	JSf1-858	JB1-859	PE	80	184.06	
3289	P-1863	JSf1-516	JB1-860	PE	80	99.49	
3290	P-1864	JB1-860	JB1-850	PE	80	93.29	
3291	P-1865	JB1-859	JB1-860	PE	80	137.46	
3292	P-1866	JSf1-541	JB1-861	PE	80	97.94	
3293	P-1867	JB1-861	JB1-851	PE	80	92.39	
3294	P-1868	JB1-860	JB1-861	PE	80	136.73	
3296	P-1871	JB1-861	JSf1-862	PE	80	133.52	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3297	P-1872	JSf1-642	JB1-863	PE	80	96.42	
3298	P-1873	JB1-863	JB1-853	PE	80	96.78	
3299	P-1874	JSf1-862	JB1-863	PE	80	135.82	
3300	P-1875	JSf1-669	JB1-864	PE	80	96.42	
3301	P-1876	JB1-864	JB1-854	PE	80	93.66	
3302	P-1877	JB1-863	JB1-864	PE	80	154.40	
3303	P-1878	JSf1-683	JB1-865	PE	80	101.51	
3304	P-1879	JB1-865	JB1-855	PE	80	93.27	
3305	P-1880	JB1-864	JB1-865	PE	80	122.49	
3306	P-1881	JSf1-692	JB1-866	PE	80	93.95	
3307	P-1882	JB1-866	JB1-856	PE	80	94.46	
3308	P-1883	JB1-865	JB1-866	PE	80	154.24	
3309	P-1884	JB1-866	JB1-712	PE	80	131.70	
3310	P-1885	JSf1-460	JB1-867	PE	80	80.94	
3311	P-1886	JB1-867	JB1-560	PE	80	97.64	
3312	P-1887	JSf1-559	JB1-868	PE	80	86.66	
3313	P-1888	JB1-868	JB1-867	PE	80	133.88	
3315	P-1892	JSf1-557	JB1-870	PE	80	57.28	
3316	P-1893	JB1-870	JB1-868	PE	80	166.50	
3317	P-1894	JSf1-4000	JB1-870	PE	80	138.53	
3318	P-1895	JB1-593	JB1-871	PE	80	166.84	
3319	P-1896	JB1-871	JB1-496	PE	80	139.07	
3320	P-1897	JB1-595	JB1-872	PE	80	158.54	
3321	P-1898	JB1-872	JB1-576	PE	80	139.26	
3464	P-1899	JB1-871	JB1-872	PE	80	93.79	
3465	P-1900	JB1-597	JB1-873	PE	80	151.71	
3466	P-1901	JB1-873	JB1-218	PE	80	146.60	
3467	P-1902	JB1-872	JB1-873	PE	80	94.36	
3468	P-1903	JB1-599	JB1-874	PE	80	141.28	
3470	P-1904	JB1-874	JB1-875	PE	80	46.00	
3469	P-1905	JB1-873	JB1-874	PE	80	95.48	
3471	P-1906	JB1-875	JB1-482	PE	80	100.95	
3472	P-1908	JB1-876	JB1-761	PE	80	101.01	
3473	P-1909	JB1-875	JB1-876	PE	80	94.36	
3475	P-1912	JB1-876	JSf1-877	PE	80	97.77	
3476	P-1913	JB1-599	JB1-878	PE	80	87.82	
3477	P-1914	JB1-878	JB1-876	PE	80	174.81	
3480	P-1917	JB1-878	JSf1-879	PE	80	100.66	
3664	P-2183	JE1-985	JB1-428	PE	80	155.70	
6334	P-6944	JB1-2829	JSf1-443	PE	80	159.87	
6335	P-6945	JB1-438	JB1-2829	PE	80	251.21	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6336	P-6946	JE1-442	JB1-2830	PE	80	117.44	
6337	P-6947	JB1-2830	JB1-2829	PE	80	178.97	
6338	P-6948	JB1-437	JB1-2830	PE	80	244.35	
6339	P-6949	JE1-586	JB1-2831	PE	80	121.80	
6341	P-6950	JB1-2831	JB1-2832	PE	80	171.18	
6340	P-6951	JB1-2830	JB1-2831	PE	80	116.21	
6342	P-6952	JB1-2832	JSf1-587	PE	80	120.62	
6343	P-6953	JB1-2829	JB1-2832	PE	80	131.62	
6344	P-6954	JB1-591	JB1-2833	PE	80	163.35	
6345	P-6955	JB1-2833	JB1-464	PE	80	153.70	
6346	P-6956	JB1-871	JB1-2833	PE	80	113.88	
6347	P-6957	JB1-589	JB1-2834	PE	80	160.99	
6348	P-6958	JB1-2834	JB1-568	PE	80	157.75	
6349	P-6959	JB1-2833	JB1-2834	PE	80	101.93	
6352	P-6976	JSf1-600	JB1-2841	PE	80	76.04	
6353	P-6977	JB1-2841	JB1-589	PE	80	110.57	
6354	P-6979	JB1-2834	JB1-2842	PE	80	99.01	
6355	P-6980	JB1-2842	JSf1-2835	PE	80	114.17	
6356	P-6981	JB1-2841	JB1-2842	PE	80	167.35	
6357	P-6982	JB1-2842	JB1-487	PE	80	165.68	
2645	PB1-1011	JB1-472	JB1-521	PE	80	131.20	
2646	PB1-1013	JSf1-520	JB1-521	PE	80	82.89	
2647	PB1-1014	JB1-01	JB1-522	PE	80	128.52	
2648	PB1-1016	JB1-521	JB1-522	PE	80	101.74	
2649	PB1-1017	JB1-509	JB1-523	PE	80	124.46	
2650	PB1-1019	JB1-522	JB1-523	PE	80	88.78	
2659	PB1-1029	JB1-02	JB1-527	PE	80	127.21	
2660	PB1-1030	JB1-527	JB1-515	PE	80	131.90	
2666	PB1-1038	JB1-522	JB1-530	PE	80	130.88	
2678	PB1-1053	JB1-530	JB4-535	PE	80	146.94	
2679	PB1-1054	JB4-535	JE1-09	PE	80	32.10	
2805	PB1-1068	JB1-515	JB1-540	PE	80	147.98	
2806	PB1-1069	JB1-540	JSf1-04999 99	PE	80	112.60	
2842	PB1-1112	JSf1-461	JB1-555	PE	80	137.60	
2843	PB1-1113	JB1-555	JB1-463	PE	80	123.56	
2870	PB1-1148	JB1-487	JB1-568	PE	80	93.11	
2871	PB1-1149	JB1-568	JB1-464	PE	80	98.62	
2894	PB1-1172	JB1-496	JB1-576	PE	80	99.00	
2895	PB1-1173	JB1-576	JB1-218	PE	80	101.77	
2942	PB1-1252	JB1-605	JB1-454	PE	80	145.98	
3003	PB1-1316	JSf1-04999	JB1-634	PE	80	166.78	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
		99					
3007	PB1-1326	JB1-634	JB4-640	PE	80	65.49	
3065	PB1-1395	JB4-640	JB1-668	PE	80	73.04	
3123	PB1-1471	JB1-702	JE1-12	PE	80	79.47	
3096	PB1-1473	JB1-668	JB1-703	PE	80	144.22	
3097	PB1-1474	JB1-703	JB1-691	PE	80	131.06	
3142	PB1-1495	JB1-691	JB1-711	PE	80	139.82	
3143	PB1-1496	JB1-711	JB1-702	PE	80	138.70	
3215	PB1-1611	JB1-761	JBf1-4111	PE	80	99.14	
3420	PB1-1752	JB1-818	JB1-803	PE	80	130.49	
3427	PB1-1759	JB1-821	JSf1-27'	PE	80	79.57	
3453	PB1-1792	JE1-22	JB1-836	PE	80	166.03	
3454	PB1-1793	JB1-836	JB1-818	PE	80	165.87	
2623	PB1-6794	JSf1-09	JB1-605	PE	80	182.71	
3426	PB1-758	JB1-803	JB1-821	PE	80	137.10	
2781	PB1-767	JB1-428	JB1-429	PE	80	135.43	
2782	PB1-768	JB1-429	JB1-430	PE	80	68.47	
2576	PB1-774	JE1-432	JB1-433	PE	80	158.26	
2577	PB1-775	JB1-433	JB1-434	PE	80	135.04	
2578	PB1-776	JB1-434	JB1-435	PE	80	80.57	
2580	PB1-780	JE1-0211	JB1-437	PE	80	115.95	
2581	PB1-782	JB1-437	JSf1-424	PE	80	214.03	
2582	PB1-783	JSf1-424	JB1-428	PE	80	191.11	
2583	PB1-784	JB1-428	JB1-433	PE	80	180.79	
2584	PB1-785	JB1-437	JB1-438	PE	80	175.41	
2585	PB1-786	JB1-438	JSf1-03111 1	PE	80	178.55	
2586	PB1-787	JB1-438	JSf1-425	PE	80	185.87	
2587	PB1-788	JSf1-425	JB1-429	PE	80	187.94	
2588	PB1-789	JB1-429	JB1-434	PE	80	190.60	
2589	PB1-790	JB1-430	JB1-435	PE	80	188.79	
2590	PB1-793	JB1-430	JB1-440	PE	80	139.53	
2591	PB1-794	JB1-440	JSf1-431	PE	80	92.64	
2795	PB1-795	JSf1-439	JB1-440	PE	80	180.34	
2592	PB1-796	JB1-435	JB1-441	PE	80	179.57	
2593	PB1-797	JB1-441	JSf1-436	PE	80	110.06	
2594	PB1-798	JB1-440	JB1-441	PE	80	199.50	
2598	PB1-806	JE1-444	JB1-445	PE	80	162.67	
2599	PB1-809	JB1-447	JSf1-08 (JE1)	PE	80	147.42	
2600	PB1-810	JB1-445	JB1-447	PE	80	186.74	
2601	PB1-813	JB1-446	JB1-448	PE	80	181.51	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2603	PB1-816	JE1-449	JB1-450	PE	80	161.32	
2604	PB1-817	JB1-450	JB1-451	PE	80	124.53	
2605	PB1-818	JB1-451	JB1-452	PE	80	116.93	
2606	PB1-821	JB1-454	JB1-448	PE	80	152.00	
2607	PB1-822	JB1-453	JB1-454	PE	80	136.70	
2608	PB1-823	JB1-447	JB1-450	PE	80	187.78	
2609	PB1-824	JB1-445	JB1-455	PE	80	125.28	
2610	PB1-825	JB1-455	JB1-446	PE	80	123.98	
2611	PB1-826	JB1-448	JB1-456	PE	80	112.95	
2612	PB1-827	JB1-456	JB1-447	PE	80	134.04	
2613	PB1-828	JB1-455	JB1-456	PE	80	183.43	
2614	PB1-829	JB1-456	JB1-451	PE	80	178.60	
2615	PB1-834	JB1-457	JB1-454	PE	80	201.87	
2616	PB1-835	JB1-446	JB1-457	PE	80	155.13	
2617	PB1-845	JB1-218	JSf1-461	PE	80	131.69	
2619	PB1-852	JB1-463	JB1-459	PE	80	135.17	
2620	PB1-858	JB1-464	JSf1-465	PE	80	129.88	
2621	PB1-864	JB1-466	JB1-467	PE	80	137.38	
2528	PB1-873	JB1-469	JB1-470	PE	80	135.72	
2529	PB1-879	JB1-01	JB1-472	PE	80	97.34	
2533	PB1-893	JB1-470	JB1-478	PE	80	142.30	
2534	PB1-894	JB1-478	JSf1-471	PE	80	133.85	
2535	PB1-896	JB1-467	JB1-479	PE	80	136.25	
2536	PB1-897	JB1-479	JSf1-468	PE	80	136.68	
2537	PB1-899	JB1-459	JB1-480	PE	80	143.44	
2538	PB1-900	JB1-480	JSf1-228	PE	80	124.06	
2541	PB1-905	JB1-218	JB1-482	PE	80	91.42	
2543	PB1-909	JB1-482	JSf1-483	PE	80	136.91	
2544	PB1-910	JB1-459	JB1-484	PE	80	97.91	
2545	PB1-913	JB1-480	JB1-485	PE	80	84.48	
2546	PB1-915	JB1-484	JB1-485	PE	80	137.51	
2548	PB1-919	JSf1-03111 1	JB1-487	PE	80	170.82	
2549	PB1-921	JB1-487	JSf1-486	PE	80	130.71	
2551	PB1-924	JB1-472	JSf1-09	PE	80	88.57	
2555	PB1-933	JSf1-471	JB1-492	PE	80	139.53	
2556	PB1-934	JB1-492	JB1-01	PE	80	139.17	
2557	PB1-936	JSf1-468	JB1-493	PE	80	141.71	
2558	PB1-937	JB1-493	JB1-475	PE	80	141.92	
2559	PB1-939	JB1-493	JB1-494	PE	80	105.63	
2560	PB1-940	JSf1-228	JB1-495	PE	80	137.79	
2561	PB1-941	JB1-495	JB1-02	PE	80	133.33	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2562	PB1-943	JB1-464	JB1-496	PE	80	102.56	
2564	PB1-947	JB1-496	JSf1-497	PE	80	131.95	
2565	PB1-948	JB1-466	JB1-498	PE	80	102.81	
2566	PB1-951	JB1-467	JB1-499	PE	80	101.72	
2567	PB1-953	JB1-498	JB1-499	PE	80	132.63	
2568	PB1-954	JB1-479	JB1-500	PE	80	101.52	
2569	PB1-956	JB1-499	JB1-500	PE	80	138.73	
2570	PB1-957	JB1-500	JSf1-474	PE	80	135.11	
2571	PB1-958	JSf1-474	JB1-494	PE	80	139.38	
2572	PB1-959	JB1-475	JB1-501	PE	80	91.45	
2573	PB1-961	JB1-494	JB1-501	PE	80	141.65	
2629	PB1-971	JB1-505	JSf1-12(JE1)	PE	80	185.50	
2630	PB1-973	JB1-453	JB1-506	PE	80	170.73	
2631	PB1-976	JB1-506	JE1-507	PE	80	225.11	
2632	PB1-980	JB1-01	JB1-509	PE	80	89.70	
2633	PB1-981	JB1-509	JB1-475	PE	80	96.56	
2635	PB1-986	JB1-501	JB1-511	PE	80	118.68	
2636	PB1-987	JB1-511	JB1-02	PE	80	85.88	
2639	PB1-995	JB1-513	JB1-514	PE	80	110.26	
2640	PB1-998	JB1-514	JB1-515	PE	80	86.70	
3238	P-6796	JBf1-4111	JB1-2602	PE	80	52.96	
2796	P-6797	JB1-2602	JSf1-4000	PE	80	132.41	
Drainage				PE	80	150.00	72,155.36
2970	P-1274	JE1-612	JB1-614	PE	80	93.41	
2971	P-1275	JB1-614	JE1-613	PE	80	122.52	
2973	P-1278	JB1-614	JSf1-615	PE	80	215.44	
2974	P-1279	JSf1-615	JB1-616	PE	80	111.63	
2975	P-1280	JE1-507	JB1-617	PE	80	82.23	
2976	P-1282	JB1-616	JB1-617	PE	80	226.15	
2979	P-1285	JSf1-618	JB1-619	PE	80	118.93	
2980	P-1286	JB1-617	JB1-620	PE	80	53.68	
2981	P-1287	JB1-620	JB1-508	PE	80	161.04	
2982	P-1288	JB1-619	JB1-620	PE	80	210.15	
2983	P-1289	JE1-602	JB1-616	PE	80	65.10	
2984	P-1290	JB1-616	JB1-619	PE	80	78.12	
2987	P-1293	JB1-619	JB1-621	PE	80	130.78	
2988	P-1294	JB1-617	JB1-622	PE	80	106.00	
2989	P-1295	JB1-622	JB1-623	PE	80	101.96	
2990	P-1296	JB1-623	JSf1-624	PE	80	169.76	
2991	P-1297	JE1-610	JB1-622	PE	80	76.89	
2993	P-1300	JB1-622	JB1-625	PE	80	210.87	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2999	P-1309	JB1-623	JB1-629	PE	80	185.24	
3001	P-1312	JSf1-624	JE1-630	PE	80	188.88	
3006	P-1321	JSf1-626	JE1-635	PE	80	193.81	
3011	P-1336	JE1-608	JB1-623	PE	80	89.70	
3058	P-1382	JSf1-627	JE1-663	PE	80	182.59	
3072	P-1407	JB1-672	JB1-673	PE	80	268.28	
3073	P-1408	JB1-673	JSf1-674	PE	80	105.38	
3075	P-1411	JSf1-674	JE1-675	PE	80	76.31	
3078	P-1415	JSf1-676	JE1-677	PE	80	92.21	
3087	P-1428	JB1-672	JSf1-685	PE	80	91.29	
3089	P-1431	JSf1-685	JE1-686	PE	80	95.91	
3114	P-1461	JSf1-696	JE1-697	PE	80	91.44	
3166	P-1524	JB1-723	JB1-724	PE	80	154.79	
3167	P-1526	JB1-673	JB1-725	PE	80	91.25	
3168	P-1527	JB1-629	JB1-723	PE	80	199.43	
3169	P-1529	JB1-726	JB1-723	PE	80	162.65	
3170	P-1530	JB1-508	JB1-726	PE	80	138.65	
3171	P-1532	JB1-727	JB1-726	PE	80	179.66	
3172	P-1533	JB1-621	JB1-727	PE	80	122.44	
3178	P-1543	JB1-732	JSf1-730	PE	80	233.47	
3179	P-1544	JE1-731	JB1-733	PE	80	144.01	
3180	P-1545	JB1-733	JB1-732	PE	80	104.95	
3181	P-1548	JB1-734	JB1-735	PE	80	165.96	
3182	P-1552	JB1-734	JSf1-736	PE	80	223.70	
3183	P-1553	JB1-729	JB1-737	PE	80	80.77	
3184	P-1555	JB1-727	JB1-737	PE	80	67.79	
3185	P-1557	JB1-737	JB1-738	PE	80	134.31	
3186	P-1559	JB1-726	JB1-739	PE	80	130.10	
3187	P-1560	JB1-739	JB1-734	PE	80	177.03	
3188	P-1562	JB1-735	JB1-740	PE	80	117.57	
3189	P-1563	JB1-740	JB1-723	PE	80	137.33	
3190	P-1564	JB1-739	JB1-740	PE	80	164.90	
3194	P-1572	JE1-743	JB1-744	PE	80	228.65	
3195	P-1573	JB1-744	JB1-745	PE	80	125.72	
3197	P-1576	JB1-745	JE1-746	PE	80	48.42	
3200	P-1579	JE1-747	JB1-745	PE	80	237.72	
3205	P-1587	JE1-750	JB1-751	PE	80	183.05	
3206	P-1588	JB1-751	JE1-731	PE	80	106.81	
3207	P-1589	JE1-748	JB1-752	PE	80	185.42	
3208	P-1590	JB1-752	JE1-749	PE	80	242.85	
3209	P-1591	JB1-751	JB1-752	PE	80	68.77	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3210	P-1592	JE1-741	JB1-753	PE	80	151.77	
3211	P-1593	JB1-753	JE1-742	PE	80	92.86	
3212	P-1594	JE1-750	JB1-753	PE	80	88.52	
3359	P-1671	JSf1-20 (JE1)	JB1-780	PE	80	272.31	
3360	P-1672	JB1-780	JB1-783	PE	80	76.04	
3361	P-1673	JB1-783	JE1-781	PE	80	216.56	
3363	P-1676	JB1-783	JSf1-784	PE	80	151.55	
3366	P-1679	JE1-785	JB1-780	PE	80	255.26	
3481	P-1924	JB1-881	JB1-725	PE	80	99.85	
3482	P-1925	JB1-735	JB1-881	PE	80	202.31	
3485	P-1928	JB1-882	JSf1-883	PE	80	280.51	
3487	P-1931	JB1-724	JB1-884	PE	80	214.07	
3488	P-1932	JB1-724	JB1-885	PE	80	121.47	
3489	P-1933	JB1-885	JB1-881	PE	80	119.86	
3490	P-1934	JB1-740	JB1-885	PE	80	133.77	
3491	P-1935	JB1-738	JB1-886	PE	80	77.82	
3492	P-1936	JB1-886	JB1-739	PE	80	88.27	
3493	P-1937	JB1-732	JB1-887	PE	80	113.39	
3494	P-1938	JB1-887	JB1-734	PE	80	79.54	
3495	P-1939	JB1-886	JB1-887	PE	80	198.84	
3498	P-1942	JB1-887	JSf1-888	PE	80	214.43	
3499	P-1943	JB1-729	JB1-889	PE	80	194.60	
3500	P-1944	JB1-889	JB1-733	PE	80	141.21	
3501	P-1945	JE1-16	JB1-889	PE	80	149.42	
3502	P-1946	JB1-744	JB1-752	PE	80	141.20	
3355	PB-1664	JE1-778	JSf1-779	PE	80	174.12	
3023	P-6893	JB1-780	JSf1-25	PE	80	264.84	
6360	P-7053	JB1-733	JSf1-2868	PE	80	242.48	
6363	P-7056	JE1-770	JB1-2870	PE	80	156.35	
6364	P-7057	JB1-2870	JE1-771	PE	80	196.93	
6365	P-7058	JE1-2869	JB1-2870	PE	80	164.69	
6366	P-7059	JB1-738	JB1-2871	PE	80	64.68	
6367	P-7060	JB1-2871	JB1-732	PE	80	136.10	
6368	P-7061	JB1-889	JB1-2871	PE	80	93.59	
6369	P-7062	JE1-722	JB1-2872	PE	80	97.30	
6370	P-7063	JB1-2872	JB1-727	PE	80	102.03	
6371	P-7064	JB1-729	JB1-2872	PE	80	83.68	
2985	PB1-1291	JB1-508	JB1-621	PE	80	201.60	
2986	PB1-1292	JB1-621	JE1-13	PE	80	164.88	
2992	PB1-1299	JB1-625	JB1-508	PE	80	82.45	
2998	PB1-1308	JB1-629	JB1-625	PE	80	120.96	

Q1 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3056	PB1-1377	JSf1-628	JB1-662	PE	80	82.40	
3057	PB1-1378	JB1-662	JE1-07'	PE	80	79.98	
3213	PB1-1597	JSf1-736	JE1-754	PE	80	261.30	
3342	PB1-1651	JE1-773	JE1-774	PE	80	244.04	
3347	PB1-1656	JE1-775	JE1-776	PE	80	282.04	
3350	PB1-1659	JE1-777	JE1-23	PE	80	348.20	
3486	PB1-1930	JB1-884	JB1-629	PE	80	135.83	
3602	PB1-6818	JB1-884	JSf1-628	PE	80	65.09	
6423	PB1-7100	JE1-771	JSf1-300	PE	80	108.31	
3542	P-6818	JSf1-671	JB1-2593	PE	80	91.55	
3603	P-6819	JB1-2593	JB1-672	PE	80	44.26	
3638	P-6820	JB1-724	JB1-2593	PE	80	99.37	
3645	P-6848	JB1-729	JE1-12597	PE	80	116.70	KTC Total↓
Drainage				PE	80	30.00	16,565.05
φ80 Total						88,720.41	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
Q2 Block						63,515.71	Total
3908	PSf2-2719	JSf2-23	JM-15	Ductile Iron	300	16.09	
3604	PSf2-2173	JSf2-02 (JE2)	JSf2-980	Ductile Iron	300	180.80	
3605	PSf2-2174	JSf2-980	JSf2-981	Ductile Iron	300	188.49	
3606	PSf2-2175	JSf2-981	JSf2-03	Ductile Iron	300	301.12	
3680	PSf2-2252	JSf2-07	JSf2-07'	Ductile Iron	300	108.98	
3681	PSf2-2253	JSf2-07'	JM-21	Ductile Iron	300	14.47	
3706	PSf2-2286	JSf2-05 (JE2)	JSf2-1029	Ductile Iron	300	220.79	
3650	PSf2-2287	JSf2-1029	JSf2-1030	Ductile Iron	300	148.29	
3651	PSf2-2289	JSf2-1030	JSf2-1031	Ductile Iron	300	49.32	
3708	PSf2-2291	JSf2-1031	JSf2-06	Ductile Iron	300	239.56	
3719	PSf2-2310	JSf2-1036	JSf2-1043	Ductile Iron	300	130.27	
3725	PSf2-2318	JSf2-06	JSf2-1046	Ductile Iron	300	150.04	
3726	PSf2-2319	JSf2-1046	JSf2-1036	Ductile Iron	300	118.25	
3749	PSf2-2398	JSf2-1043	JSf2-1076	Ductile Iron	300	120.31	
3779	PSf2-2399	JSf2-1076	JSf2-1067	Ductile Iron	300	179.46	
3863	PSf2-2590	JSf2-1160	JSf2-322	Ductile Iron	300	128.20	
3866	PSf2-2596	JSf2-1162	JSf2-20	Ductile Iron	300	309.90	
3873	PSf2-2604	JSf2-1165 (JE2)	JSf2-1162	Ductile Iron	300	84.11	
3881	PSf2-2619	JSf2-1168	JSf2-1171	Ductile Iron	300	105.25	
3882	PSf2-2620	JSf2-1171	JSf2-1160	Ductile Iron	300	186.32	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3890	PSf2-2631	JSf2-1151	JSf2-1176	Ductile Iron	300	215.83	
3891	PSf2-2632	JSf2-1176	JSf2-16 (JE2-40)	Ductile Iron	300	96.28	
3893	PSf2-2640	JSf2-1181	JSf2-1151	Ductile Iron	300	61.70	
3895	PSf2-2657	JSf2-1189	JSf2-1181	Ductile Iron	300	96.76	
3896	PSf2-2689	JSf2-18	JM-16	Ductile Iron	300	17.66	
3899	PSf2-2694	JSf2-20	JSf2-22	Ductile Iron	300	400.87	
3902	PSf2-2700	JSf2-1207	JSf2-22	Ductile Iron	300	121.31	
3903	PSf2-2702	JSf2-1195	JSf2-1208	Ductile Iron	300	30.80	
3905	PSf2-2710	JSf2-1211	JSf2-1207	Ductile Iron	300	82.83	
3906	PSf2-2712	JSf2-1197	JSf2-1212	Ductile Iron	300	155.61	
3907	PSf2-2717	JSf2-1214	JSf2-23	Ductile Iron	300	93.62	
2685	PSf2-499	JSf2-04	JSf2-03	Ductile Iron	300	191.74	
2692	PSf2-555	JSf2-334	JSf2-28	Ductile Iron	300	666.23	
2693	PSf2-571	JSf2-25	JSf2-26	Ductile Iron	300	772.64	
2694	PSf2-572	JSf2-26	JSf2-336	Ductile Iron	300	388.53	
2695	PSf2-573	JSf2-336	JSf2-27	Ductile Iron	300	545.51	
2696	PSf2-574	JSf2-27	JSf2-334	Ductile Iron	300	311.26	
2717	PSf2-590	JSf2-24	JSf2-25	Ductile Iron	300	511.56	
6190	PSf2-6127	JSf2-322	JSf2-17	Ductile Iron	300	362.98	
6191	PSf2-6128	JSf2-17	JSf2-1195	Ductile Iron	300	219.81	
6197	PSf2-6145	JSf2-2565	JSf2-1216	Ductile Iron	300	209.25	
6198	PSf2-6147	JSf2-21	JSf2-2566	Ductile Iron	300	137.96	
6199	PSf2-6148	JSf2-2566	JSf2-1214	Ductile Iron	300	203.89	
6204	PSf2-6156	JSf2-1208	JSf2-2569	Ductile Iron	300	80.03	
6205	PSf2-6157	JSf2-2569	JSf2-1197	Ductile Iron	300	88.91	
6208	PSf2-6162	JSf2-22	JSf2-2571	Ductile Iron	300	212.48	
6209	PSf2-6163	JSf2-2571	JSf2-21	Ductile Iron	300	120.26	
6211	PSf2-6165	JSf2-1212	JSf2-2572	Ductile Iron	300	100.58	
6212	PSf2-6166	JSf2-2572	JSf2-18	Ductile Iron	300	96.94	
6216	PSf2-6171	JSf2-17	JSf2-2574	Ductile Iron	300	142.61	
6217	PSf2-6172	JSf2-2574	JSf2-2562	Ductile Iron	300	153.71	
6233	PSf2-6188	JSf2-18	JSf2-2580	Ductile Iron	300	100.22	
6234	PSf2-6189	JSf2-2580	JSf2-2565	Ductile Iron	300	112.37	
6248	PSf2-6203	JSf2-1216	JSf2-2585	Ductile Iron	300	123.60	
6255	PSf2-6211	JSf2-2585	JSf2-2588	Ductile Iron	300	140.23	
6256	PSf2-6212	JSf2-2588	JSf2-23	Ductile Iron	300	124.75	
6278	PSf2-6309	JSf2-2623	JSf2-18	Ductile Iron	300	54.85	
6282	PSf2-6317	JSf2-2626	JSf2-17	Ductile Iron	300	100.72	
6288	PSf2-6324	JSf2-2558	JSf2-2629	Ductile Iron	300	103.51	
6289	PSf2-6325	JSf2-2629	JSf2-2626	Ductile Iron	300	96.39	
3237	PSf2-6671	JSf2-1067	JSf2-09	Ductile Iron	300	194.34	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3392	PSf2-6801	JSf2-2562	JSf2-1211	Ductile Iron	300	161.43	
2708	PSf2-6803	JM-15	JSf2-24	Ductile Iron	300	449.15	
3550	PSf2-6860	JSf2-03	JSf2-310	Ductile Iron	300	438.41	
2786	PSf2-6862	JSf2-2828	JSf2-310	Ductile Iron	300	238.74	
6307	PSf2-6978	JM-21	JSf2-06'	Ductile Iron	300	15.19	
6308	PSf2-6986	JSf2-06'	JSf2-06	Ductile Iron	300	106.34	
Dranage				Ductile Iron	300	10.00	12,440.41
3739	PSf2-2343	JE2-314	JSf2-1056	Ductile Iron	300	137.66	
3743	PSf2-2348	JSf2-1056	JSf2-1058	Ductile Iron	300	135.14	
3744	PSf2-2349	JSf2-1058	JSf2-315	Ductile Iron	300	173.10	
3768	PSf2-2377	JSf2-1068	JSf2-09	Ductile Iron	300	101.42	
3782	PSf2-2441	JSf2-1096	JSf2-320 (JE2)	Ductile Iron	300	89.42	
3784	PSf2-2443	JSf2-10	JSf2-1097	Ductile Iron	300	97.60	
3785	PSf2-2448	JBf2-10'	JE2-09	Ductile Iron	300	33.93	
3787	PSf2-2451	JSf2-1100	JSf2-316	Ductile Iron	300	179.95	
3808	PSf2-2488	JSf2-1116	JSf2-1096	Ductile Iron	300	148.99	
3822	PSf2-2506	JSf2-14	JSf2-1124	Ductile Iron	300	132.73	
3823	PSf2-2507	JSf2-1124	JSf2-1116	Ductile Iron	300	178.05	
3829	PSf2-2514	JSf2-11 (JE2-41)	JE2-1128	Ductile Iron	300	169.69	
3834	PSf2-2522	JSf2-316	JSf2-1131	Ductile Iron	300	162.64	
3835	PSf2-2523	JSf2-1131	JSf2-11	Ductile Iron	300	133.47	
3852	PSf2-2570	JSf2-11	JSf2-1150	Ductile Iron	300	144.02	
3853	PSf2-2571	JSf2-1150	JSf2-11 (JE2-41)	Ductile Iron	300	63.67	
3877	PSf2-2611	JSf2-15 (JE2-39)	JSf2-1168	Ductile Iron	300	122.13	
5037	PSf2-4415	JSf2-21 (JE2-14)	JSf2-1901	Ductile Iron	300	84.83	
5038	PSf2-4416	JSf2-1901	JSf2-1899	Ductile Iron	300	58.30	
5043	PSf2-4421	JSf2-1899	JSf2-1904	Ductile Iron	300	142.81	
5048	PSf2-4427	JSf2-1904	JSf2-1906	Ductile Iron	300	119.52	
5049	PSf2-4428	JSf2-1906	JSf2 (JE2-17)	Ductile Iron	300	95.81	
5053	PSf2-4434	JSf2 (JE2-17)	JSf2-1909	Ductile Iron	300	83.65	
5066	PSf2-4448	JSf2-1909	JSf2-1915	Ductile Iron	300	151.93	
5067	PSf2-4449	JSf2-1915	JSf2 (JE2-36)	Ductile Iron	300	122.31	
6176	PSf2-6092	JB2-1075	JB2-09'	Ductile Iron	300	112.97	
3504	PSf2-6673	JSf2-2552	JSf2-315	Ductile Iron	300	87.60	
3505	PSf2-6675	JSf2-1068	JSf2-2552	Ductile Iron	300	102.55	
6312	PSf2-6709	JSf2-1097	JSf2-2758	Ductile Iron	300	128.81	
6313	PSf2-6710	JSf2-2758	JSf2-1100	Ductile Iron	300	128.79	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3640	PSf2-6804	JSf2-10	JBf2-10'	Ductile Iron	300	209.02	KTC Total↓
3592	PSf2-6805	JSf2-09	JSf2-10	Ductile Iron	300	268.19	4,100.70
φ300 Total						16,541.11	
2697	PSf2-579	JSf2-26	JSm2-20	Ductile Iron	250	253.71	
φ250 Total						253.71	
3661	P-2177	JB2-982	JB2-983	PE	80	102.22	
3665	P-2184	JE2-984	JB2-982	PE	80	147.51	
3667	P-2187	JE2-986	JB2-987	PE	80	168.66	
3668	P-2188	JB2-987	JB2-982	PE	80	187.34	
3671	P-2191	JE2-988	JB2-989	PE	80	151.88	
3672	P-2192	JB2-989	JB2-987	PE	80	188.02	
3673	P-2196	JB2-991	JSf2-310	PE	80	201.56	
3674	P-2197	JB2-991	JB2-992	PE	80	179.69	
3675	P-2198	JB2-990	JB2-993	PE	80	22.27	
3676	P-2199	JB2-993	JSf2-07	PE	80	146.98	
3677	P-2201	JB2-987	JB4-994	PE	80	114.19	
3678	P-2202	JB4-994	JB2-991	PE	80	188.21	
3679	P-2203	JB4-994	JB2-992	PE	80	192.38	
3700	P-2277	JB2-989	JB2-1024	PE	80	191.82	
3701	P-2278	JB2-1024	JB2-1025	PE	80	38.94	
3648	P-2279	JB2-1025	JB2-1026	PE	80	138.69	
3649	P-2280	JB2-1026	JB2-1027	PE	80	109.93	
3704	P-2283	JE2-1028	JB2-1024	PE	80	162.41	
3705	P-2284	JB2-1024	JB2-1025	PE	80	38.94	
3647	P-2285	JB2-1025	JB2-1026	PE	80	138.69	
3707	P-2288	JB2-1025	JSf2-1029	PE	80	188.09	
3652	P-2290	JB2-1026	JSf2-1030	PE	80	194.37	
3709	P-2292	JB2-1027	JSf2-1031	PE	80	200.85	
3710	P-2293	JB2-990	JSf2-07'	PE	80	206.57	
3713	P-2297	JB2-1033	JB2-1034	PE	80	165.46	
3714	P-2298	JB2-1034	JB2-1035	PE	80	65.60	
3715	P-2301	JB2-1035	JSf2-1036	PE	80	127.54	
3716	P-2307	JB2-1039	JB2-1040	PE	80	135.44	
3717	P-2308	JB2-1040	JB2-1041	PE	80	106.57	
3718	P-2309	JB2-1041	JB2-1042	PE	80	113.25	
3720	P-2312	JB2-1042	JSf2-1043	PE	80	140.07	
3721	P-2314	JSf2-1031	JB2-1044	PE	80	134.68	
3722	P-2315	JB2-1044	JB2-1033	PE	80	92.13	
3723	P-2316	JB2-1044	JB2-1045	PE	80	125.35	
3724	P-2317	JB2-1045	JB2-1034	PE	80	94.16	
3727	P-2320	JB2-1045	JSf2-1046	PE	80	140.18	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3729	P-2323	JE2-1032	JB2-1048	PE	80	146.09	
3730	P-2327	JB2-1041	JB2-1049	PE	80	123.71	
3731	P-2328	JB2-1049	JB2-1050	PE	80	152.96	
3741	P-2346	JB2-1039	JB2-1057	PE	80	79.81	
3742	P-2347	JB2-1057	JB2-1050	PE	80	214.53	
3745	P-2350	JB2-1057	JSf2-1058	PE	80	201.90	
3746	P-2351	JB2-1048	JB2-1059	PE	80	80.26	
3747	P-2352	JB2-1059	JB2-1033	PE	80	110.66	
3748	P-2353	JSf2-1029	JB2-1059	PE	80	183.39	
3750	P-2356	JB2-1040	JB2-1060	PE	80	143.58	
3751	P-2357	JB2-1033	JB2-1061	PE	80	163.75	
3752	P-2358	JB2-1061	JB2-1060	PE	80	87.87	
3753	P-2359	JB2-1035	JB2-1062	PE	80	88.51	
3754	P-2360	JB2-1062	JB2-1042	PE	80	53.32	
3755	P-2361	JB2-1061	JB2-1062	PE	80	233.10	
3756	P-2362	JE2-1047	JB2-1063	PE	80	142.46	
3757	P-2363	JB2-1063	JB2-1048	PE	80	155.78	
3758	P-2364	JB2-1063	JB2-1060	PE	80	178.84	
3767	P-2375	JB2-1050	JSf2-1067	PE	80	132.12	
3780	P-2400	JB2-1049	JSf2-1076	PE	80	123.03	
3862	P-2587	JB2-1157	JB2-1158	PE	80	64.92	
3864	P-2591	JB2-1159	JSf2-1160	PE	80	185.68	
3865	P-2594	JB2-1159	JB2-1161	PE	80	125.21	
3875	P-2607	JB2-1166	JSf2-1162	PE	80	86.69	
3512	P-2616	JB2-1158	JB2-1170	PE	80	109.78	
3880	P-2617	JB2-1170	JB2-1166	PE	80	141.05	
3883	P-2621	JB2-1158	JB2-1172	PE	80	63.12	
3884	P-2622	JB2-1172	JB2-1159	PE	80	204.17	
3885	P-2623	JSf2-1171	JB2-1172	PE	80	186.58	
3886	P-2624	JB2-1169	JB2-1173	PE	80	138.04	
3887	P-2626	JB2-1159	JB2-1173	PE	80	156.55	
3888	P-2628	JB2-1166	JB2-1175	PE	80	203.53	
3889	P-2629	JB2-1175	JB2-1167	PE	80	93.14	
3892	P-2638	JB2-1180	JSf2-322	PE	80	45.39	
3904	P-2709	JB2-1209	JSf2-1211	PE	80	172.68	
3909	P-2722	JB2-1213	JB2-1217	PE	80	155.43	
3911	P-2723	JB2-1217	JB2-1218	PE	80	112.01	
3910	P-2724	JSf2-1216	JB2-1217	PE	80	171.65	
6188	P-6124	JB2-1199	JSf2-2558	PE	80	185.07	
6189	P-6125	JSf2-2558	JB2-1198	PE	80	222.79	
6192	P-6134	JB2-2561	JB2-1210	PE	80	80.47	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6193	P-6135	JB2-1209	JSf2-2562	PE	80	98.56	
6194	P-6136	JSf2-2562	JB2-2561	PE	80	96.99	
6195	P-6139	JB2-2563	JB2-1213	PE	80	150.73	
6196	P-6141	JB2-1218	JB2-2564	PE	80	180.68	
6200	P-6150	JB2-2564	JB2-2567	PE	80	135.31	
6201	P-6152	JSf2-21	JB2-2567	PE	80	159.81	
6202	P-6153	JB2-1210	JB2-2568	PE	80	120.01	
6203	P-6154	JB2-2568	JB2-2563	PE	80	168.64	
6206	P-6159	JB2-2567	JB2-2570	PE	80	148.82	
6207	P-6160	JB2-2570	JSf2-1207	PE	80	191.09	
6210	P-6164	JB2-2570	JSf2-2571	PE	80	102.45	
6213	P-6167	JB2-1213	JB2-2573	PE	80	156.92	
6214	P-6168	JB2-2573	JSf2-2565	PE	80	116.11	
6215	P-6170	JB2-2573	JSf2-1216	PE	80	176.89	
6218	P-6173	JSf2-1208	JB2-2575	PE	80	166.36	
6219	P-6174	JB2-2575	JB2-1210	PE	80	161.75	
6220	P-6175	JSf2-2574	JB2-2575	PE	80	209.53	
6221	P-6176	JB2-2568	JB2-2576	PE	80	150.80	
6222	P-6177	JB2-2576	JSf2-2569	PE	80	154.92	
6223	P-6178	JB2-2575	JB2-2576	PE	80	106.68	
6224	P-6179	JSf2-1197	JB2-2577	PE	80	134.65	
6225	P-6180	JB2-2577	JB2-2563	PE	80	125.96	
6226	P-6181	JB2-2576	JB2-2577	PE	80	112.92	
6227	P-6182	JB2-1213	JB2-2578	PE	80	121.91	
6228	P-6183	JB2-2578	JSf2-1212	PE	80	124.03	
6229	P-6184	JB2-2577	JB2-2578	PE	80	152.80	
6230	P-6185	JSf2-2572	JB2-2579	PE	80	111.80	
6231	P-6186	JB2-2579	JB2-2573	PE	80	114.33	
6232	P-6187	JB2-2578	JB2-2579	PE	80	132.01	
6235	P-6190	JB2-2579	JSf2-2580	PE	80	107.29	
6236	P-6191	JB2-2563	JB2-2581	PE	80	138.86	
6237	P-6192	JB2-2581	JB2-2564	PE	80	112.83	
6238	P-6193	JB2-1217	JB2-2581	PE	80	190.21	
6239	P-6194	JB2-2567	JB2-2582	PE	80	108.52	
6240	P-6195	JB2-2582	JB2-2568	PE	80	107.75	
6241	P-6196	JB2-2581	JB2-2582	PE	80	139.23	
6242	P-6197	JB2-1210	JB2-2583	PE	80	108.51	
6243	P-6198	JB2-2583	JB2-2570	PE	80	116.45	
6244	P-6199	JB2-2582	JB2-2583	PE	80	128.63	
6245	P-6200	JSf2-1211	JB2-2584	PE	80	92.58	
6246	P-6201	JB2-2584	JB2-2561	PE	80	144.97	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6247	P-6202	JB2-2583	JB2-2584	PE	80	122.68	
6249	P-6205	JB2-1218	JSf2-2585	PE	80	144.45	
6250	P-6206	JB2-2564	JB2-2586	PE	80	91.80	
6251	P-6207	JB2-2586	JSf2-2566	PE	80	82.36	
6252	P-6208	JB2-1218	JB2-2587	PE	80	125.32	
6253	P-6209	JB2-2587	JSf2-1214	PE	80	100.04	
6254	P-6210	JB2-2586	JB2-2587	PE	80	186.79	
6257	P-6213	JB2-2587	JSf2-2588	PE	80	117.58	
6258	P-6214	JB2-1206	JB2-2589	PE	80	199.23	
6259	P-6215	JB2-2589	JSf2-1207	PE	80	190.90	
6260	P-6216	JB2-1161	JB2-2590	PE	80	155.57	
6261	P-6217	JB2-2590	JB2-1209	PE	80	104.54	
6262	P-6219	JB2-1203	JB2-2591	PE	80	191.36	
6263	P-6220	JB2-2591	JB2-1209	PE	80	166.81	
6264	P-6221	JSf2-2574	JB2-2591	PE	80	212.93	
6265	P-6222	JB2-2589	JB2-2592	PE	80	127.18	
6266	P-6223	JB2-2592	JB2-2590	PE	80	146.50	
6267	P-6224	JB2-1169	JB2-2592	PE	80	174.27	
6268	P-6225	JB2-2592	JSf2-1211	PE	80	205.10	
6269	P-6232	JSf2-1150	JB2-2596	PE	80	166.57	
6270	P-6233	JB2-2596	JSf2-1151	PE	80	188.06	
6272	P-6301	JB2-2596	JB2-2621	PE	80	180.19	
6273	P-6302	JB2-2621	JE2-1128	PE	80	89.00	
6274	P-6303	JB2-2621	JSf2-1176	PE	80	85.18	
6275	P-6304	JSf2-1181	JB2-2622	PE	80	143.32	
6276	P-6305	JB2-2622	JB2-1182	PE	80	140.87	
6277	P-6307	JB2-1182	JB2-1199	PE	80	275.03	
6279	P-6311	JB2-2624	JSf2-1197	PE	80	70.15	
6280	P-6314	JB2-2625	JSf2-1195	PE	80	70.56	
6281	P-6315	JB2-2624	JB2-2625	PE	80	195.88	
6283	P-6318	JB2-2625	JSf2-2626	PE	80	215.94	
6284	P-6320	JB2-2627	JB2-1180	PE	80	114.54	
6285	P-6321	JSf2-2626	JB2-2627	PE	80	268.74	
6286	P-6322	JB2-1199	JB2-2628	PE	80	103.16	
6287	P-6323	JB2-2628	JB2-2627	PE	80	119.93	
6290	P-6326	JB2-2628	JSf2-2629	PE	80	213.69	
6291	P-6327	JB2-1198	JB2-2630	PE	80	114.93	
6292	P-6328	JB2-2630	JB2-2625	PE	80	115.54	
6293	P-6329	JSf2-2629	JB2-2630	PE	80	221.04	
6294	P-6330	JB2-1196	JB2-2631	PE	80	92.24	
6295	P-6331	JB2-2631	JB2-2624	PE	80	96.33	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6296	P-6332	JB2-2630	JB2-2631	PE	80	193.73	
6297	P-6333	JB2-1182	JB2-2632	PE	80	169.78	
6298	P-6336	JB2-2633	JB2-1199	PE	80	106.29	
6299	P-6337	JB2-2632	JB2-2633	PE	80	179.50	
6300	P-6355	JSf2-1189	JB2-2632	PE	80	208.35	
6301	P-6356	JSf2-1171	JB2-2640	PE	80	196.56	
6302	P-6357	JB2-2640	JB2-2622	PE	80	146.86	
6303	P-6358	JSf2-1176	JB2-2640	PE	80	176.37	
6304	P-6359	JB2-1182	JB2-2641	PE	80	94.76	
6305	P-6360	JB2-2641	JB2-1180	PE	80	95.86	
6306	P-6361	JB2-2640	JB2-2641	PE	80	203.21	
6309	P-6469	JB2-2677	JB2-2624	PE	80	153.40	
6310	P-6470	JSf2-1212	JB2-2677	PE	80	72.81	
2945	P-6659	JSf2-11	JB2-2537	PE	80	237.92	
2946	P-6661	JB2-2596	JB2-2537	PE	80	143.40	
2947	P-6663	JB2-2537	JSf2-1189	PE	80	264.06	
3503	P-6672	JB2-1050	JSf2-2552	PE	80	109.58	
3509	P-6679	JB2-1198	JB2-1196	PE	80	199.53	
3510	P-6681	JB2-1170	JB2-1173	PE	80	205.93	
3511	P-6682	JB2-1173	JB2-1175	PE	80	155.23	
3641	P-6831	JB2-990	JB2-1027	PE	80	27.68	
3642	P-6833	JB2-989	JB2-2595	PE	80	204.71	
3643	P-6835	JB2-2595	JB2-990	PE	80	179.51	
6321	P-6836	JB2-983	JB2-2796	PE	80	184.81	
6322	P-6837	JB2-2796	JSf2-981	PE	80	174.94	
6323	P-6838	JSf2-980	JB2-2797	PE	80	121.45	
6324	P-6839	JB2-2797	JB2-982	PE	80	257.33	
6325	P-6840	JB2-2796	JB2-2797	PE	80	161.57	
3644	P-6845	JB2-992	JB2-2595	PE	80	108.16	
3646	P-6849	JB2-983	JB4-994	PE	80	193.38	
3656	P-6852	JB2-1060	JE2-2595	PE	80	200.55	
3657	P-6853	JB2-1039	JE2-2595	PE	80	166.57	
3658	P-6854	JB2-2677	JSf2-2623	PE	80	189.18	
6330	P-6938	JB2-992	JB2-2827	PE	80	105.66	
6331	P-6939	JB2-2827	JB2-993	PE	80	172.70	
6333	P-6942	JB2-2827	JSf2-2828	PE	80	210.38	
3876	PB2-2609	JB2-1167	JSf2-20	PE	80	130.99	
3879	PB2-2614	JB2-1161	JB2-1169	PE	80	160.02	
3897	PB2-2691	JSf2-322	JB2-1203	PE	80	47.28	
3898	PB2-2692	JB2-1203	JB2-1161	PE	80	152.45	
3900	PB2-2697	JB2-1169	JB2-1206	PE	80	148.81	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3901	PB2-2698	JB2-1206	JB2-1167	PE	80	31.17	
Drannage				PE	80	50.00	29,138.28
3737	P-2340	JE2-06	JB2-1055	PE	80	130.86	
3738	P-2341	JB2-1055	JE2-1052	PE	80	122.38	
3740	P-2345	JE2-04	JSf2-1056	PE	80	140.88	
3761	P-2367	JE2-1054	JB2-1065	PE	80	160.79	
3762	P-2368	JB2-1065	JB2-1055	PE	80	135.70	
3763	P-2369	JE2-1064	JB2-1065	PE	80	144.10	
3766	P-2372	JB2-1065	JE2-1066	PE	80	138.82	
3769	P-2381	JB2-1069	JE2-1070	PE	80	117.06	
3770	P-2385	JB2-1055	JB2-1072	PE	80	154.07	
3771	P-2386	JB2-1072	JB2-1069	PE	80	122.28	
3773	P-2390	JB2-1072	JE2-1073	PE	80	117.58	
3774	P-2392	JB2-1074	JB2-1072	PE	80	144.88	
3775	P-2393	JE2-06	JB2-1074	PE	80	110.32	
3776	P-2394	JSf2-1068	JB2-1075	PE	80	145.80	
3777	P-2395	JB2-1075	JB2-1069	PE	80	149.48	
3778	P-2396	JB2-1074	JB2-1075	PE	80	102.71	
3781	P-2439	JB2-1094	JB2-1095	PE	80	163.17	
3783	P-2442	JB2-1095	JSf2-1096	PE	80	213.78	
3786	P-2449	JB2-1098	JBf2-10'	PE	80	104.04	
3793	P-2467	JE2-1104	JE2-1105	PE	80	159.03	
3797	P-2475	JB2-1109	JB2-1110	PE	80	118.88	
3798	P-2476	JB2-1110	JB2-1111	PE	80	125.58	
3800	P-2479	JB2-1111	JE2-1112	PE	80	150.21	
3802	P-2482	JE2-1113	JB2-1109	PE	80	163.70	
3804	P-2484	JE2-1114	JB2-1110	PE	80	155.74	
3807	P-2486	JE2-1115	JB2-1111	PE	80	165.97	
3809	P-2489	JSf2-1116	JE2-19	PE	80	158.00	
3810	P-2490	JB2-1098	JB2-1117	PE	80	81.68	
3811	P-2492	JB2-1117	JB2-1118	PE	80	101.28	
3812	P-2493	JB2-1118	JB2-1119	PE	80	165.75	
3814	P-2496	JB2-1119	JE2-1120	PE	80	156.65	
3815	P-2497	JE2-09	JB2-1118	PE	80	185.31	
3816	P-2498	JB2-1117	JB2-1121	PE	80	158.70	
3817	P-2499	JB2-1121	JB2-1094	PE	80	119.98	
3818	P-2501	JB2-1119	JB2-1122	PE	80	161.46	
3819	P-2502	JB2-1122	JB2-1095	PE	80	131.50	
3820	P-2504	JB2-1119	JB2-1123	PE	80	151.21	
3821	P-2505	JB2-1123	JE2-11	PE	80	166.44	
3824	P-2508	JB2-1123	JSf2-1124	PE	80	110.72	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3825	P-2509	JB2-1122	JB2-1125	PE	80	91.06	
3826	P-2510	JB2-1125	JSf2-1116	PE	80	134.50	
3827	P-2511	JB2-1123	JB2-1125	PE	80	165.98	
3828	P-2512	JB2-1095	JB2-1126	PE	80	150.93	
3831	P-2518	JB2-1129	JB2-1094	PE	80	152.42	
3832	P-2520	JB2-1130	JB2-1127	PE	80	183.68	
3833	P-2521	JB2-1130	JSf2-11 (JE2-41)	PE	80	204.41	
3836	P-2524	JB2-1130	JSf2-1131	PE	80	230.30	
3838	P-2527	JB2-1126	JSf2-1132 (JE2)	PE	80	225.16	
3839	P-2529	JB4-1133	JB2-1127	PE	80	38.71	
3841	P-2532	JB4-1133	JSf2-1134 (JE2)	PE	80	222.35	
3842	P-2534	JB2-1135	JE2-1128	PE	80	50.96	
3844	P-2537	JB2-1135	JSf2-1136 (JE2)	PE	80	243.10	
3845	P-2542	JE2-1052	JB2-1138	PE	80	87.37	
3846	P-2543	JB2-1138	JE2-1053	PE	80	187.62	
3851	P-2549	JE2-1102	JE2-1140	PE	80	226.52	
3856	P-2579	JE2-1152	JSf2 (JE2-1153)	PE	80	166.90	
3860	P-2584	JE2-1154	JB2-1156	PE	80	131.90	
3861	P-2585	JB2-1156	JSf2-1155 (JE2)	PE	80	101.97	
3867	P-2598	JB2-1156	JB2-1163	PE	80	145.83	
3868	P-2599	JB2-1163	JB2-1157	PE	80	49.49	
3871	P-2602	JSf2-1164 (JE2)	JB2-1163	PE	80	197.31	
3874	P-2605	JB2-1157	JSf2-1165 (JE2)	PE	80	323.12	
3878	P-2613	JSf2-1168	JB2-1163	PE	80	242.58	
5033	P-4408	JB2-1109	JB2-1897	PE	80	110.36	
5034	P-4409	JB2-1897	JB2-1898	PE	80	63.87	
5035	P-4412	JB2-1898	JSf2-1899	PE	80	88.72	
5036	P-4414	JB2-1900	JE2-1107	PE	80	97.24	
5039	P-4417	JB2-1900	JSf2-1901	PE	80	273.92	
5040	P-4418	JB2-1897	JB2-1902	PE	80	127.12	
5041	P-4419	JB2-1902	JB2-1110	PE	80	71.99	
5042	P-4420	JB2-1898	JB2-1903	PE	80	129.96	
5044	P-4423	JB2-1903	JSf2-1904	PE	80	69.38	
5045	P-4424	JB2-1902	JB2-1903	PE	80	130.38	
5046	P-4425	JB2-1903	JB2-1905	PE	80	105.98	
5047	P-4426	JB2-1905	JB2-1111	PE	80	165.83	
5050	P-4429	JB2-1905	JSf2-1906	PE	80	88.76	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5052	P-4432	JB2-1905	JE2-1907	PE	80	111.44	
5054	P-4436	JB2-1908	JSf2-1909	PE	80	118.70	
5055	P-4437	JE2-18	JB2-1910	PE	80	131.87	
5056	P-4438	JB2-1910	JB2-1911	PE	80	51.78	
5057	P-4439	JB2-1911	JB2-1908	PE	80	133.63	
5058	P-4440	JE2-1112	JB2-1910	PE	80	88.89	
5061	P-4443	JE2-1912	JB2-1913	PE	80	40.42	
5062	P-4444	JB2-1913	JB2-1911	PE	80	39.31	
5063	P-4445	JE2-1907	JB2-1914	PE	80	48.81	
5064	P-4446	JB2-1914	JB2-1908	PE	80	39.30	
5065	P-4447	JB2-1913	JB2-1914	PE	80	133.72	
5068	P-4450	JB2-1908	JSf2-1915	PE	80	225.58	
6158	P-6074	JSf2-1100	JB2-2539	PE	80	137.53	
6159	P-6075	JB2-2539	JB2-1121	PE	80	151.12	
6160	P-6076	JSf2-316	JB2-2540	PE	80	169.10	
6161	P-6077	JB2-2540	JB2-1129	PE	80	44.38	
6162	P-6078	JB2-2539	JB2-2540	PE	80	171.72	
6165	P-6081	JE2-1070	JB2-2542	PE	80	132.18	
6166	P-6082	JB2-2542	JE2-1102	PE	80	134.96	
6167	P-6083	JE2-2541	JB2-2542	PE	80	200.00	
6168	P-6084	JB2-1138	JB2-2543	PE	80	163.87	
6169	P-6085	JB2-2543	JE2-1139	PE	80	182.68	
6170	P-6086	JE2-1103	JB2-2544	PE	80	153.87	
6171	P-6087	JB2-2544	JE2-1104	PE	80	172.02	
6172	P-6088	JB2-2543	JB2-2544	PE	80	108.04	
6173	P-6089	JB2-2544	JB2-2542	PE	80	229.28	
6177	P-6094	JE2-2545	JB2-09'	PE	80	292.26	
6178	P-6095	JB2-1129	JB2-2547	PE	80	77.66	
6179	P-6096	JB2-2547	JB2-1130	PE	80	123.78	
6180	P-6097	JB2-1126	JB2-2548	PE	80	57.30	
6181	P-6098	JB2-2548	JB4-1133	PE	80	77.67	
6182	P-6099	JB2-2547	JB2-2548	PE	80	212.58	
6185	P-6102	JB2-1127	JB2-2550	PE	80	102.94	
6186	P-6103	JB2-2550	JB2-1135	PE	80	145.32	
6187	P-6104	JSf2-2549 (JE2)	JB2-2550	PE	80	227.28	
3506	P-6676	JE2-1106	JB2-1900	PE	80	143.83	
3507	P-6677	JB2-1900	JB2-1109	PE	80	75.01	
3508	P-6678	JSf2-1096	JE2-22	PE	80	209.68	
6314	P-6728	JSf2-09	JB2-09'	PE	80	127.79	
6315	P-6737	JB2-1117	JB2-2766	PE	80	124.12	
6316	P-6738	JB2-2766	JSf2-2758	PE	80	113.14	

Q2 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6317	P-6739	JB2-2539	JB2-2766	PE	80	153.63	
6318	P-6740	JSf2-1097	JB2-2767	PE	80	100.99	
6319	P-6741	JB2-2767	JB2-1098	PE	80	99.83	
6320	P-6742	JB2-2766	JB2-2767	PE	80	92.03	
3639	P-6806	JB2-09'	JBf2-10'	PE	80	246.95	
6327	P-6842	JB2-1121	JB2-2798	PE	80	121.81	
6328	P-6843	JB2-2798	JB2-1122	PE	80	102.28	
6329	P-6844	JB2-1118	JB2-2798	PE	80	199.33	
2430	PB2-45	JSf2 (JE2-29)	JSf2 (JE2-30)	PE	80	110.42	
6326	PB2-6841	JSf2-1134 (JE2)	JE2-1152	PE	80	160.32	KTC Total↓
Drannage				PE	80	40.00	17,836.32
φ80 Total						46,974.60	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
Q3 Block						140,018.38	Total
4597	PSf3-3727	JM-34	JSf3-17'	Ductile Iron	300	17.73	
4732	PSf3-3909	JSf3-1706	JSf3-1707	Ductile Iron	300	128.07	
4733	PSf3-3911	JSf3-1707	JSf3-18	Ductile Iron	300	211.28	
4735	PSf3-3913	JSf3-17'	JSf3-1708	Ductile Iron	300	184.37	
4736	PSf3-3914	JSf3-1708	JSf3-1706	Ductile Iron	300	166.98	
Drainage				Ductile Iron	300	10.00	
φ300 Total						718.43	
4910	PSf3-236	JSf3-1806	JSf3-1835	Ductile Iron	200	161.89	
4152	PSf3-3085	JSf3-242	JSf3-1372	Ductile Iron	200	256.62	
4153	PSf3-3091	JSf3-1372	JSf3-05	Ductile Iron	200	50.55	
4154	PSf3-3092	JSf3-05	JSm3-01	Ductile Iron	200	1,230.15	
4156	PSf3-3093	JSf3-1374	JSf3-1376	Ductile Iron	200	129.39	
4160	PSf3-3100	JSf3-1376	JSf3-1378	Ductile Iron	200	134.32	
4161	PSf3-3101	JSf3-1378	JSf3-05	Ductile Iron	200	131.89	
4176	PSf3-3120	JSf3-1386	JSf3-1367	Ductile Iron	200	213.17	
4178	PSf3-3125	JSf3-1367	JSf3-1388	Ductile Iron	200	130.07	
4179	PSf3-3126	JSf3-1388	JSf3-242	Ductile Iron	200	165.78	
4197	PSf3-3151	JSf3-1396	JSf3-1397	Ductile Iron	200	214.33	
4198	PSf3-3157	JSf3-1400	JSf3-1374	Ductile Iron	200	225.16	
4213	PSf3-3183	JM-33	JSf3-13	Ductile Iron	200	31.80	
4357	PSf3-3184	JSf3-13	JSf3-1411	Ductile Iron	200	147.03	
4293	PSf3-3392	JSf3-1496	JSf3-12	Ductile Iron	200	19.57	
4296	PSf3-3396	JSf3-1484	JSf3-1499	Ductile Iron	200	87.70	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4326	PSf3-3434	JSf3-1499	JSf3-1516	Ductile Iron	200	115.43	
4327	PSf3-3435	JSf3-1516	JSf3-1512	Ductile Iron	200	150.55	
4342	PSf3-3454	JSf3-1512	JSf3-1524	Ductile Iron	200	119.74	
4343	PSf3-3455	JSf3-1524	JSf3-1523	Ductile Iron	200	121.88	
4349	PSf3-3472	JSf3-14	JSf3-1533	Ductile Iron	200	21.14	
4202	PSf3-3478	JSf3-1411	JSf3-14	Ductile Iron	200	543.95	
4354	PSf3-3483	JSf3-1410	JSf3-1537	Ductile Iron	200	172.60	
4355	PSf3-3484	JSf3-1537	JSf3-13	Ductile Iron	200	20.30	
4268	PSf3-3486	JSf3-14	JSf3-1538	Ductile Iron	200	21.91	
4359	PSf3-3490	JSf3-1540	JSf3-13	Ductile Iron	200	22.84	
4363	PSf3-3500	JSf3-16	JM-35	Ductile Iron	200	30.07	
4381	PSf3-3528	JSf3-1546	JSf3-1557	Ductile Iron	200	65.38	
4382	PSf3-3529	JSf3-1557	JSf3-16	Ductile Iron	200	66.32	
4437	PSf3-3614	JSf3-1593	JSf3-1591	Ductile Iron	200	131.97	
4443	PSf3-3629	JSf3-1600	JSf3-1601	Ductile Iron	200	99.85	
4444	PSf3-3630	JSf3-1601	JSf3-1597	Ductile Iron	200	120.31	
4446	PSf3-3631	JSf3-1597	JSf3-1602	Ductile Iron	200	127.73	
4447	PSf3-3632	JSf3-1602	JSf3-16	Ductile Iron	200	87.71	
4468	PSf3-3694	JSf3-1523	JSf3-1623	Ductile Iron	200	91.76	
4472	PSf3-3702	JSf3-1623	JSf3-1626	Ductile Iron	200	90.99	
4473	PSf3-3703	JSf3-1626	JSf3-16	Ductile Iron	200	68.46	
4596	PSf3-3726	JSf3-1637	JSf3-1638	Ductile Iron	200	309.71	
4598	PSf3-3729	JSf3-1638	JSf3-17'	Ductile Iron	200	184.67	
4599	PSf3-3733	JSf3-1641	JSf3-20	Ductile Iron	200	117.71	
4606	PSf3-3745	JSf3-1533	JSf3-1645	Ductile Iron	200	92.78	
4607	PSf3-3746	JSf3-1645	JSf3-1400	Ductile Iron	200	153.58	
4611	PSf3-3751	JSf3-1398	JSf3-1647	Ductile Iron	200	149.24	
4613	PSf3-3754	JSf3-1410	JSf3-1648	Ductile Iron	200	142.42	
4614	PSf3-3755	JSf3-1648	JSf3-1398	Ductile Iron	200	164.31	
4628	PSf3-3771	JSf3-1633	JSf3-1653	Ductile Iron	200	106.06	
4633	PSf3-3780	JSf3-1653	JSf3-1658	Ductile Iron	200	115.79	
4634	PSf3-3781	JSf3-1658	JSf3-1634	Ductile Iron	200	128.68	
4641	PSf3-3794	JSf3-1663	JSf3-1636	Ductile Iron	200	89.41	
4646	PSf3-3799	JSf3-1636	JSf3-1665	Ductile Iron	200	103.10	
4668	PSf3-3826	JSf3-1674	JSf3-1633	Ductile Iron	200	101.27	
4673	PSf3-3831	JSf3-1496	JSf3-1676	Ductile Iron	200	147.21	
4674	PSf3-3832	JSf3-1676	JSf3-1674	Ductile Iron	200	84.96	
4686	PSf3-3846	JSf3-1681	JSf3-1634	Ductile Iron	200	104.33	
4694	PSf3-3862	JSf3-1538	JSf3-1690	Ductile Iron	200	192.70	
4693	PSf3-3863	JSf3-1689	JSf3-18	Ductile Iron	200	318.19	
4703	PSf3-3878	JSf3-1540	JSf3-1696	Ductile Iron	200	172.48	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4704	PSf3-3879	JSf3-1696	JSf3-1637	Ductile Iron	200	184.95	
4722	PSf3-3899	JSf3-1690	JSf3-1703	Ductile Iron	200	155.06	
4723	PSf3-3900	JSf3-1703	JSf3-1689	Ductile Iron	200	156.60	
4744	PSf3-3937	JSf3-1717	JSf3-1716	Ductile Iron	200	103.32	
4745	PSf3-3953	JSf3-269	JSf3-1724	Ductile Iron	200	93.32	
4750	PSf3-3967	JSf3-1729	JSf3-1719	Ductile Iron	200	122.98	
4754	PSf3-3982	JSf3-1716	JSf3-1735	Ductile Iron	200	101.48	
2523	PSf3-401	JSf3-14	JSm3-02	Ductile Iron	200	1,290.62	
4787	PSf3-4026	JSf3-19	JSf3-1751	Ductile Iron	200	108.05	
4788	PSf3-4027	JSf3-1751	JSf3-1717	Ductile Iron	200	103.75	
4813	PSf3-4066	JSf3-1735	JSf3-1765	Ductile Iron	200	102.53	
4814	PSf3-4067	JSf3-1765	JSf3-1758	Ductile Iron	200	84.44	
4832	PSf3-4090	JSf3-1774	JSf3-269	Ductile Iron	200	50.46	
4834	PSf3-4093	JSf3-1775	JSf3-1776	Ductile Iron	200	92.36	
4835	PSf3-4095	JSf3-1776	JSf3-1641	Ductile Iron	200	92.51	
4849	PSf3-4115	JSf3-1724	JSf3-1784	Ductile Iron	200	95.77	
4850	PSf3-4116	JSf3-1784	JSf3-20	Ductile Iron	200	150.15	
4853	PSf3-4122	JSf3-1665	JSf3-1788	Ductile Iron	200	98.35	
4854	PSf3-4123	JSf3-1788	JSf3-1546	Ductile Iron	200	147.72	
4870	PSf3-4153	JSf3-1719	JSf3-1800	Ductile Iron	200	127.12	
4871	PSf3-4154	JSf3-1800	JSf3-1775	Ductile Iron	200	94.37	
4894	PSf3-4206	JSf3-20	JSf3-1825	Ductile Iron	200	119.68	
4895	PSf3-4207	JSf3-1825	JSf3-1824	Ductile Iron	200	137.84	
4898	PSf3-4211	JSf3-1826	JSf3-1806	Ductile Iron	200	102.09	
4882	PSf3-4221	JSf3-1824	JSf3-1829	Ductile Iron	200	166.14	
4883	PSf3-4222	JSf3-1829	JSf3-1826	Ductile Iron	200	76.54	
4905	PSf3-4225	JM-34	JSf3-1830	Ductile Iron	200	173.62	
4911	PSf3-4237	JSf3-1835	JSf3-21	Ductile Iron	200	232.29	
4916	PSf3-4246	JSf3-1838	JSf3-1682	Ductile Iron	200	88.06	
4920	PSf3-4251	JSf3-1682	JSf3-17	Ductile Iron	200	200.38	
4921	PSf3-4252	JSf3-17	JSf3-1681	Ductile Iron	200	56.00	
4922	PSf3-4256	JSf3-1833	JSf3-1842	Ductile Iron	200	166.40	
4923	PSf3-4257	JSf3-1842	JSf3-21	Ductile Iron	200	197.90	
4924	PSf3-4260	JSf3-18	JSf3-1844	Ductile Iron	200	225.91	
4932	PSf3-4272	JSf3-1848	JSf3-21	Ductile Iron	200	112.06	
4933	PSf3-4275	JSf3-1849	JSf3-1848	Ductile Iron	200	143.23	
4949	PSf3-4299	JSf3-1844	JSf3-1858	Ductile Iron	200	174.00	
4950	PSf3-4300	JSf3-1858	JSf3-1853	Ductile Iron	200	184.02	
4952	PSf3-4302	JSf3-1830	JSf3-1854	Ductile Iron	200	182.28	
4953	PSf3-4303	JSf3-1854	JSf3-1833	Ductile Iron	200	181.85	
4962	PSf3-4314	JSf3-1853	JSf3-1862	Ductile Iron	200	207.45	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4963	PSf3-4315	JSf3-1862	JSf3-22	Ductile Iron	200	210.74	
5024	PSf3-4399	JSf3-1758	JSf3-1894	Ductile Iron	200	31.05	
5025	PSf3-4400	JSf3-1894	JSf3-1774	Ductile Iron	200	43.84	
3024	PSf3-6703	JM-34	JSf3-17	Ductile Iron	200	22.20	
3521	PSf3-6705	JSf3-1838	JSf3-1663	Ductile Iron	200	131.79	
3533	PSf3-6719	JM-35	JSf3-1729	Ductile Iron	200	108.10	
3558	PSf3-6729	JSf3-1588	JSf3-2555	Ductile Iron	200	66.50	
3559	PSf3-6730	JSf3-2555	JSf3-1600	Ductile Iron	200	86.75	
3540	PSf3-6751	JSf3-1591	JSf3-2556	Ductile Iron	200	73.98	
3541	PSf3-6752	JSf3-2556	JSf3-15 (JE3)	Ductile Iron	200	78.96	
3595	PSf3-6809	JSf3-11	JSf3-1484	Ductile Iron	200	25.51	
3596	PSf3-6810	JSf3-22	JSf3-2594	Ductile Iron	200	314.37	
3597	PSf3-6811	JSf3-2594	JSf3-1849	Ductile Iron	200	132.75	
3617	PSf3-6865	JSf3-1593	JSf3-1588	Ductile Iron	200	91.56	
3627	PSf3-6876	JSf3-1397	JSf3-1647	Ductile Iron	200	147.65	
3628	PSf3-6877	JM-31	JSf3-04	Ductile Iron	200	39.73	
3629	PSf3-6878	JSf3-04	JSf3-1386	Ductile Iron	200	283.74	
3630	PSf3-6879	JSf3-1396	JSf3-04	Ductile Iron	200	263.74	17,435.52
4224	PSf3-203	JSf3-1419	JSf3-1297	Ductile Iron	200	119.54	
3931	PSf3-2763	JSf3-1237	JSf3-1236	Ductile Iron	200	122.28	
3932	PSf3-2764	JB3-10	JSf3-1238	PE	200	175.34	
3939	PSf3-2773	JE3-09	JB3-1241	PE	200	50.79	
3940	PSf3-2774	JB3-1241	JB3-1224	PE	200	83.27	
3951	PSf3-2789	JSf3-02 (JE3-07)	JSf3-1248	Ductile Iron	200	223.65	
3952	PSf3-2790	JSf3-1248	JSf3-1235	Ductile Iron	200	131.11	
3953	PSf3-2792	JB3-1224	JB3-1249	PE	200	60.43	
3954	PSf3-2795	JSf3-1238	JSf3-1251	Ductile Iron	200	124.37	
3955	PSf3-2796	JSf3-1251	JSf3-1237	Ductile Iron	200	59.08	
3964	PSf3-2808	JSf3-02 (JE3-07)	JSf3-1256	Ductile Iron	200	107.53	
3965	PSf3-2809	JSf3-1256	JSf3-248	Ductile Iron	200	108.04	
3968	PSf3-2812	JSf3-1258	JSf3-1235	Ductile Iron	200	76.69	
3970	PSf3-2814	JSf3-1236	JSf3-07	Ductile Iron	200	127.00	
3971	PSf3-2815	JSf3-07	JSf3-254	Ductile Iron	200	249.86	
3976	PSf3-2822	JB3-1249	JB3-1263	PE	200	27.83	
3977	PSf3-2823	JB3-1263	JB3-10	PVC	200	46.46	
3982	PSf3-2828	JSf3-1265	JSf3-06 (JE3)	Ductile Iron	200	158.54	
3983	PSf3-2830	JSf3-1265	JSf3-1266	Ductile Iron	200	85.88	
3990	PSf3-2839	JSf3-1270	JSf3-1266	Ductile Iron	200	59.19	
3991	PSf3-2840	JSf3-1270	JSf3-1238	Ductile Iron	200	128.74	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4026	PSf3-2884	JSf3-12 (JE3)	JSf3-1290	Ductile Iron	200	86.43	
4052	PSf3-2924	JSf3-1258	JSf3-1309	Ductile Iron	200	132.44	
4053	PSf3-2925	JSf3-1309	JSf3-07	Ductile Iron	200	76.68	
4060	PSf3-2933	JSf3-1312	JSf3-1295	Ductile Iron	200	190.80	
4068	PSf3-2947	JSf3-07	JSf3-1316	Ductile Iron	200	67.51	
4069	PSf3-2948	JSf3-1316	JSf3-1312	Ductile Iron	200	95.48	
4097	PSf3-2982	JSf3-1295	JSf3-1330	Ductile Iron	200	85.20	
4098	PSf3-2983	JSf3-1330	JSf3-1323	Ductile Iron	200	207.74	
4112	PSf3-2999	JSf3-1323	JSf3-1290	Ductile Iron	200	215.34	
4141	PSf3-3040	JSf3-10	JSf3-1353	Ductile Iron	200	299.67	
4142	PSf3-3041	JSf3-1353	JSf3-09	Ductile Iron	200	303.56	
4143	PSf3-3045	JSf3-08	JM-32	Ductile Iron	200	23.83	
4144	PSf3-3046	JSf3-1354	JSf3-08	Ductile Iron	200	260.21	
4145	PSf3-3049	JSf3-1356	JSf3-08	Ductile Iron	200	258.74	
4146	PSf3-3061	JSf3-12	JM-33	Ductile Iron	200	24.60	
4147	PSf3-3067	JSf3-1354	JSf3-1364	Ductile Iron	200	117.02	
4216	PSf3-3192	JSf3-1357	JSf3-1415	Ductile Iron	200	136.48	
4223	PSf3-3202	JSf3-248	JSf3-1419	Ductile Iron	200	287.58	
4235	PSf3-3218	JSf3-1425	JSf3-1357	Ductile Iron	200	177.26	
4237	PSf3-3220	JSf3-254	JSf3-1426	Ductile Iron	200	76.85	
4238	PSf3-3221	JSf3-1426	JSf3-1425	Ductile Iron	200	111.85	
4249	PSf3-3239	JSf3-1415	JSf3-1433	Ductile Iron	200	60.16	
4250	PSf3-3240	JSf3-1433	JSf3-08	Ductile Iron	200	59.58	
4500	PSf3-3271	JSf3-1364	JSf3-1445	Ductile Iron	200	287.00	
4517	PSf3-3295	JSf3-13 (JE3)	JSf3-10	Ductile Iron	200	23.63	
4529	PSf3-3312	JSf3-05 (JE3)	JSf3-09	PE	200	16.38	
4531	PSf3-3314	JSf3-09	JSf3-1461	PE	200	25.86	
4532	PSf3-3315	JSf3-1461	JSf3-1452	Ductile Iron	200	92.53	
4277	PSf3-3362	JSf3-1452	JSf3-1482	Ductile Iron	200	118.19	
4278	PSf3-3363	JSf3-1482	JSf3-1463	Ductile Iron	200	133.22	
4148	PSf3-3371	JSf3-1445	JSf3-1486	Ductile Iron	200	71.87	
4149	PSf3-3372	JSf3-1486	JSf3-12	Ductile Iron	200	22.25	
4028	PSf3-3380	JSf3-1485	JSf3-1490	Ductile Iron	200	387.48	
4029	PSf3-3381	JSf3-1490	JSf3-12	Ductile Iron	200	393.06	
4345	PSf3-3457	JSf3-1463	JSf3-1525	Ductile Iron	200	106.99	
4346	PSf3-3458	JSf3-1525	JSf3-1527	Ductile Iron	200	82.74	
4347	PSf3-3466	JSf3-1527	JSf3-1530	Ductile Iron	200	157.57	
4434	PSf3-3604	JSf3-15 (JE3)	JM-36 (JE3)	Ductile Iron	200	15.56	
4454	PSf3-3648	JSf3-1607	JSf3-15 (JE3)	Ductile Iron	200	63.36	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4741	PSf3-3919	JSf3-1683	JSf3-1710	Ductile Iron	200	177.33	
4756	PSf3-3986	JSf3-1736	JSf3-1683	Ductile Iron	200	89.93	
4780	PSf3-4018	JSf3-1710	JSf3-1748	Ductile Iron	200	99.42	
4781	PSf3-4019	JSf3-1748	JSf3-19	Ductile Iron	200	103.50	
4969	PSf3-4334	JSf3-1869	JSf3-261	Ductile Iron	200	98.36	
4976	PSf3-4346	JSf3-1866	JSf3-1874	Ductile Iron	200	100.68	
4977	PSf3-4347	JSf3-1874	JSf3-1869	Ductile Iron	200	112.80	
4996	PSf3-4368	JSf3-19	JSf3-1882	Ductile Iron	200	76.03	
4997	PSf3-4369	JSf3-1882	JSf3-1866	Ductile Iron	200	79.49	
3539	PSf3-6750	JM-36 (JE3)	JSf3-1736	Ductile Iron	200	97.89	
3593	PSf3-6807	JSf3-10	JSf3-11	Ductile Iron	200	210.92	
3594	PSf3-6808	JSf3-11	JSf3-1485	Ductile Iron	200	190.27	
3614	PSf3-6833	JSf3-1530	JSf3-1607	Ductile Iron	200	138.32	
3624	PSf3-6868	JSf3-1356	JSf3-2653	Ductile Iron	200	171.59	
3631	PSf3-6880	JSf3-1297	JSf3-03	Ductile Iron	200	146.69	
3632	PSf3-6881	JSf3-03	JM-31	Ductile Iron	200	20.93	KTC Total↓
3633	PSf3-6882	JSf3-2653	JSf3-03	Ductile Iron	200	78.18	9,670.65
φ200 Total						27,106.17	
3920	P-2743	JB3-1226	JB3-1223	PE	80	37.23	
3950	P-2788	JB3-1246	JB3-1247	PE	80	131.22	
4150	P-3080	JB3-1368	JB3-1369	PE	80	71.12	
4151	P-3081	JB3-1368	JB3-1370	PE	80	139.12	
4155	P-3094	JSf3-1374	JB3-1371	PE	80	89.21	
4157	P-3096	JB3-1373	JB3-1377	PE	80	57.21	
4158	P-3097	JB3-1377	JB3-1371	PE	80	133.54	
4159	P-3098	JSf3-1376	JB3-1377	PE	80	95.95	
4162	P-3103	JB3-1379	JB3-1373	PE	80	114.04	
4163	P-3104	JSf3-1378	JB3-1379	PE	80	48.67	
4164	P-3105	JB3-1369	JB3-1380	PE	80	65.98	
4165	P-3106	JB3-1380	JB3-1373	PE	80	93.16	
4166	P-3107	JB3-1377	JB3-1381	PE	80	94.14	
4167	P-3108	JB3-1381	JB3-1368	PE	80	91.81	
4168	P-3109	JB3-1380	JB3-1381	PE	80	57.83	
4169	P-3110	JB3-1370	JB3-1382	PE	80	93.06	
4170	P-3111	JB3-1382	JB3-1371	PE	80	92.72	
4171	P-3112	JB3-1381	JB3-1382	PE	80	134.68	
4172	P-3113	JB3-1366	JB3-1383	PE	80	147.63	
4173	P-3114	JB3-1383	JB4-1384	PE	80	133.28	
4174	P-3116	JB3-1366	JB3-1385	PE	80	128.12	
4175	P-3118	JB3-1385	JB4-1384	PE	80	131.60	
4177	P-3122	JB3-1387	JB3-1366	PE	80	166.75	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4180	P-3127	JB3-1385	JB3-1389	PE	80	89.35	
4181	P-3128	JB3-1389	JB3-1368	PE	80	113.43	
4182	P-3132	JSf3-242	JB3-1391	PE	80	146.76	
4183	P-3133	JB3-1391	JB3-1369	PE	80	82.91	
4184	P-3135	JSf3-1388	JB3-1392	PE	80	94.94	
4185	P-3136	JB3-1392	JB3-1389	PE	80	222.79	
4186	P-3137	JB3-1391	JB3-1392	PE	80	211.10	
4187	P-3138	JB3-1366	JB3-1393	PE	80	130.86	
4188	P-3139	JB3-1393	JSf3-1367	PE	80	120.24	
4189	P-3140	JB3-1392	JB3-1393	PE	80	153.21	
4190	P-3141	JSf3-1386	JB3-1394	PE	80	155.78	
4191	P-3142	JB3-1394	JB3-1387	PE	80	146.79	
4192	P-3143	JB3-1393	JB3-1394	PE	80	189.55	
4193	P-3145	JB3-1395	JB3-1383	PE	80	130.18	
4194	P-3146	JB3-1387	JB3-1395	PE	80	211.06	
4195	P-3148	JSf3-1396	JB3-1387	PE	80	139.60	
4196	P-3150	JSf3-1397	JB3-1395	PE	80	101.95	
4199	P-3159	JB3-1401	JSf3-1400	PE	80	108.30	
4200	P-3164	JB4-1384	JB4-1403	PE	80	150.71	
4201	P-3165	JSf3-1398	JB3-1404	PE	80	134.42	
4203	P-3167	JB4-1403	JB3-1404	PE	80	173.21	
4204	P-3168	JB3-1370	JB3-1405	PE	80	124.77	
4205	P-3170	JB3-1406	JB3-1401	PE	80	160.68	
4206	P-3171	JB3-1405	JB3-1406	PE	80	196.02	
4207	P-3172	JB4-1403	JB3-1407	PE	80	104.81	
4208	P-3173	JB3-1407	JB3-1405	PE	80	157.12	
4209	P-3174	JB3-1404	JB3-1408	PE	80	144.80	
4210	P-3175	JB3-1408	JB3-1406	PE	80	203.39	
4211	P-3176	JB3-1407	JB3-1408	PE	80	166.80	
4212	P-3178	JB3-1409	JSf3-1410	PE	80	175.93	
4533	P-3316	JSf3-1353	JB3-1462	PE	80	20.70	
4534	P-3318	JSf3-1461	JB3-1462	PE	80	306.38	
4535	P-3322	JB3-1451	JB3-1464	PE	80	50.45	
4536	P-3324	JB3-1464	JB3-1465	PE	80	117.04	
4537	P-3325	JB3-1465	JB3-1466	PE	80	66.92	
4538	P-3328	JB3-1466	JB3-1467	PE	80	86.82	
4539	P-3329	JB3-1464	JB3-1468	PE	80	176.95	
4540	P-3330	JB3-1468	JSf3-1452	PE	80	74.70	
4541	P-3331	JB3-1465	JB3-1469	PE	80	155.65	
4542	P-3332	JB3-1469	JB3-1468	PE	80	118.03	
4543	P-3338	JB3-1465	JB3-1472	PE	80	97.60	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4544	P-3342	JB3-1451	JB3-1474	PE	80	44.96	
4545	P-3344	JB3-1474	JB3-1472	PE	80	112.81	
4546	P-3345	JB3-1472	JB3-1475	PE	80	96.34	
4547	P-3348	JB3-1475	JB3-1476	PE	80	101.41	
4548	P-3349	JB3-1466	JB3-1475	PE	80	98.88	
4549	P-3351	JB3-1477	JB3-1476	PE	80	127.40	
4269	P-3353	JB3-1478	JB3-1477	PE	80	66.50	
4270	P-3354	JB3-1473	JB3-1479	PE	80	130.86	
4271	P-3356	JB3-1478	JB3-1479	PE	80	63.39	
4272	P-3357	JB3-1475	JB3-1480	PE	80	112.52	
4273	P-3358	JB3-1480	JB3-1478	PE	80	81.74	
4274	P-3359	JB3-1472	JB3-1481	PE	80	108.57	
4275	P-3360	JB3-1481	JB3-1473	PE	80	96.67	
4276	P-3361	JB3-1480	JB3-1481	PE	80	62.87	
4279	P-3364	JB3-1469	JSf3-1482	PE	80	104.83	
4291	P-3388	JB3-1492	JB3-1493	PE	80	137.67	
4292	P-3390	JB3-1494	JB3-1495	PE	80	111.27	
4294	P-3393	JB3-1462	JB3-1497	PE	80	65.79	
4295	P-3394	JB3-1497	JB3-1451	PE	80	65.36	
4297	P-3398	JB3-1498	JSf3-1499	PE	80	133.56	
4298	P-3399	JB3-1000	JB3-1500	PE	80	62.32	
4299	P-3400	JB3-1500	JSf3-1484	PE	80	149.78	
4300	P-3401	JB3-1500	JB3-1498	PE	80	78.73	
4301	P-3404	JB3-1000	JB3-1501	PE	80	88.07	
4302	P-3405	JB3-1462	JB3-1502	PE	80	201.02	
4303	P-3406	JB3-1502	JB3-1000	PE	80	100.46	
4304	P-3409	JB3-1502	JB3-1503	PE	80	108.26	
4305	P-3410	JB3-1497	JB3-1504	PE	80	131.75	
4306	P-3411	JB3-1504	JB3-1503	PE	80	90.34	
4307	P-3412	JB3-1474	JB3-1505	PE	80	83.82	
4309	P-3413	JB3-1505	JB3-1506	PE	80	84.23	
4308	P-3414	JB3-1504	JB3-1505	PE	80	37.62	
4310	P-3415	JB3-1506	JB3-1473	PE	80	119.58	
4311	P-3416	JB3-1506	JB3-1507	PE	80	71.71	
4312	P-3417	JB3-1503	JB3-1508	PE	80	49.38	
4313	P-3418	JB3-1508	JB3-1501	PE	80	49.04	
4314	P-3419	JB3-1507	JB3-1508	PE	80	81.84	
4315	P-3420	JB3-1507	JB3-1509	PE	80	81.78	
4316	P-3422	JB3-1510	JB3-1511	PE	80	64.59	
4317	P-3425	JB3-1511	JSf3-1512	PE	80	113.38	
4318	P-3426	JB3-1498	JB3-1513	PE	80	121.23	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4319	P-3427	JB3-1513	JB3-1511	PE	80	103.86	
4320	P-3428	JB3-1513	JB3-1514	PE	80	58.79	
4321	P-3429	JB3-1514	JB3-1510	PE	80	96.19	
4322	P-3430	JB3-1501	JB3-1515	PE	80	57.18	
4323	P-3431	JB3-1515	JB3-1498	PE	80	25.97	
4324	P-3432	JB3-1514	JB3-1515	PE	80	116.32	
4325	P-3433	JB3-1507	JB3-1514	PE	80	95.48	
4328	P-3436	JB3-1513	JSf3-1516	PE	80	106.40	
4329	P-3438	JB3-1517	JB3-1511	PE	80	145.89	
4330	P-3439	JB3-1473	JB3-1509	PE	80	59.99	
4331	P-3440	JB3-1509	JB3-1518	PE	80	51.46	
4332	P-3441	JB3-1518	JB3-1510	PE	80	54.08	
4333	P-3442	JB3-1479	JB3-1519	PE	80	103.62	
4334	P-3443	JB3-1519	JB3-1517	PE	80	96.33	
4335	P-3444	JB3-1518	JB3-1519	PE	80	150.85	
4336	P-3445	JB3-1519	JB3-1520	PE	80	104.54	
4337	P-3446	JB3-1520	JB3-1521	PE	80	119.28	
4338	P-3447	JB3-1477	JB3-1521	PE	80	68.39	
4339	P-3448	JB3-1521	JB3-1479	PE	80	88.67	
4340	P-3449	JB3-1520	JB3-1522	PE	80	124.88	
4550	P-3452	JB3-1522	JSf3-1523	PE	80	120.18	
4341	P-3453	JB3-1517	JB3-1522	PE	80	135.69	
4344	P-3456	JB3-1517	JSf3-1524	PE	80	161.23	
4350	P-3476	JSf3-1533	JB3-1534	PE	80	126.36	
4351	P-3479	JB3-1534	JB3-1535	PE	80	128.18	
4352	P-3480	JB3-1409	JB3-1536	PE	80	99.70	
4267	P-3481	JB3-1536	JSf3-1411	PE	80	21.46	
4353	P-3482	JB3-1535	JB3-1536	PE	80	285.00	
4356	P-3485	JB3-1536	JSf3-1537	PE	80	151.35	
4358	P-3489	JB3-1539	JSf3-1540	PE	80	144.47	
4360	P-3491	JSf3-1411	JB3-1539	PE	80	17.48	
4361	P-3494	JB3-1495	JB3-1542	PE	80	81.24	
4362	P-3496	JB3-1543	JB3-1544	PE	80	158.33	
4364	P-3504	JB3-1548	JB3-1544	PE	80	125.54	
4365	P-3505	JB3-1541	JB3-1548	PE	80	139.67	
4366	P-3507	JB3-1544	JB3-1549	PE	80	194.87	
4367	P-3508	JB3-1549	JB3-1545	PE	80	111.60	
4368	P-3510	JSf3-1484	JB3-1550	PE	80	112.46	
4369	P-3511	JB3-1550	JB3-1492	PE	80	77.68	
4370	P-3512	JSf3-1499	JB3-1551	PE	80	106.59	
4371	P-3514	JB3-1550	JB3-1551	PE	80	102.55	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4372	P-3515	JSf3-1516	JB3-1552	PE	80	95.85	
4373	P-3517	JB3-1551	JB3-1552	PE	80	111.48	
4374	P-3518	JSf3-1512	JB3-1553	PE	80	85.33	
4375	P-3520	JB3-1552	JB3-1553	PE	80	141.94	
4376	P-3521	JSf3-1524	JB3-1554	PE	80	85.29	
4378	P-3522	JB3-1554	JB3-1555	PE	80	44.34	
4377	P-3523	JB3-1553	JB3-1554	PE	80	107.54	
4379	P-3525	JSf3-1523	JB3-1556	PE	80	112.44	
4380	P-3527	JB3-1555	JB3-1556	PE	80	170.47	
4383	P-3531	JSf3-1485	JB3-1492	PE	80	21.73	
4384	P-3532	JB3-1551	JB3-1558	PE	80	82.65	
4389	P-3534	JB3-1492	JB3-1559	PE	80	61.41	
4390	P-3535	JB3-1559	JB3-1558	PE	80	64.84	
4385	P-3536	JB3-1541	JB3-1560	PE	80	93.49	
4386	P-3537	JB3-1560	JB3-1493	PE	80	69.17	
4688	P-3538	JB3-1559	JB3-1560	PE	80	141.19	
4387	P-3541	JB3-1558	JB3-1562	PE	80	118.10	
4388	P-3542	JB3-1562	JB3-1541	PE	80	78.04	
4391	P-3543	JB3-1561	JB3-1562	PE	80	99.65	
4392	P-3544	JB3-1552	JB3-1563	PE	80	163.70	
4393	P-3545	JB3-1563	JB3-1561	PE	80	45.60	
4395	P-3547	JB3-1564	JB3-1565	PE	80	111.83	
4394	P-3548	JB3-1563	JB3-1564	PE	80	138.80	
4396	P-3549	JB3-1565	JB3-1544	PE	80	84.41	
4397	P-3551	JB3-1566	JB3-1549	PE	80	84.62	
4445	P-3552	JB3-1565	JB3-1566	PE	80	157.05	
4398	P-3553	JB3-1561	JB3-1567	PE	80	88.70	
4399	P-3554	JB3-1567	JB3-1548	PE	80	45.90	
4400	P-3555	JB3-1567	JB3-1565	PE	80	110.81	
4401	P-3557	JSf3-1490	JB3-1494	PE	80	21.82	
4402	P-3558	JB3-1494	JB3-1542	PE	80	95.34	
4403	P-3559	JB3-1493	JB3-1568	PE	80	127.93	
4404	P-3560	JB3-1568	JB3-1494	PE	80	119.28	
4405	P-3561	JB3-1560	JB3-1569	PE	80	85.96	
4406	P-3563	JB3-1568	JB3-1569	PE	80	83.61	
4407	P-3564	JB3-1569	JB3-1570	PE	80	103.70	
4408	P-3565	JB3-1570	JB3-1541	PE	80	44.52	
4409	P-3566	JB3-1569	JB3-1571	PE	80	87.46	
4410	P-3567	JB3-1571	JB3-1494	PE	80	124.46	
4411	P-3568	JB3-1571	JB3-1572	PE	80	110.56	
4412	P-3570	JB3-1573	JB3-1543	PE	80	58.44	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4413	P-3571	JB3-1572	JB3-1573	PE	80	66.03	
4414	P-3572	JB3-1570	JB3-1572	PE	80	72.75	
4415	P-3573	JB3-1542	JB3-1574	PE	80	108.60	
4416	P-3574	JB3-1574	JB3-1573	PE	80	103.40	
4417	P-3575	JB3-1571	JB3-1574	PE	80	90.41	
4418	P-3576	JB3-1572	JB3-1548	PE	80	126.66	
4419	P-3578	JB3-1476	JB3-1575	PE	80	55.95	
4420	P-3579	JB3-1575	JB3-1467	PE	80	86.39	
4421	P-3582	JB3-1576	JB3-1577	PE	80	85.24	
4422	P-3583	JB3-1532	JB3-1578	PE	80	61.74	
4423	P-3586	JB3-1476	JB3-1579	PE	80	119.59	
4424	P-3587	JB3-1579	JB3-1531	PE	80	48.45	
4425	P-3591	JB3-1582	JB3-1522	PE	80	129.60	
4426	P-3592	JB3-1583	JB3-1582	PE	80	128.80	
4427	P-3593	JB3-1520	JB3-1583	PE	80	129.56	
4428	P-3595	JB3-1584	JB3-1580	PE	80	112.23	
4429	P-3596	JB3-1477	JB3-1584	PE	80	91.96	
4430	P-3597	JB3-1584	JB3-1585	PE	80	145.83	
4431	P-3598	JB3-1585	JB3-1586	PE	80	133.06	
4432	P-3599	JB3-1531	JB3-1587	PE	80	73.68	
4433	P-3600	JB3-1587	JB3-1532	PE	80	57.68	
4435	P-3607	JB3-1590	JSf3-1530	PE	80	134.74	
4436	P-3611	JB3-1578	JB3-1592	PE	80	42.09	
4438	P-3616	JB3-1590	JB3-1594	PE	80	46.29	
4439	P-3618	JB3-1592	JB3-1595	PE	80	50.51	
4440	P-3620	JB3-1594	JB3-1595	PE	80	130.29	
4441	P-3621	JB3-1532	JB3-1596	PE	80	61.70	
4442	P-3622	JB3-1596	JSf3-1588	PE	80	104.26	
4448	P-3635	JB3-1586	JSf3-1600	PE	80	66.33	
4449	P-3642	JB3-1594	JB3-1605	PE	80	81.06	
4450	P-3643	JB3-1605	JSf3-1591	PE	80	77.80	
4451	P-3644	JB3-1595	JB3-1606	PE	80	71.28	
4452	P-3645	JB3-1606	JSf3-1593	PE	80	53.11	
4453	P-3646	JB3-1605	JB3-1606	PE	80	138.74	
4455	P-3649	JB3-1605	JSf3-1607	PE	80	136.91	
4456	P-3653	JB3-1469	JB3-1609	PE	80	94.92	
4457	P-3656	JB3-1610	JSf3-1463	PE	80	129.94	
4458	P-3657	JB3-1609	JB3-1610	PE	80	79.44	
4459	P-3658	JSf3-1525	JB3-1611	PE	80	146.86	
4460	P-3662	JB3-1612	JSf3-1527	PE	80	132.04	
4461	P-3663	JB3-1611	JB3-1612	PE	80	76.87	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4462	P-3664	JB3-1612	JB3-1590	PE	80	160.55	
4463	P-3684	JB3-1585	JB3-1620	PE	80	104.13	
4464	P-3685	JB3-1620	JB3-1580	PE	80	117.37	
4465	P-3686	JB3-1521	JB3-1580	PE	80	97.72	
4466	P-3690	JB3-1586	JB3-1622	PE	80	98.22	
4467	P-3693	JB3-1622	JSf3-1601	PE	80	38.10	
4469	P-3696	JB3-1582	JSf3-1623	PE	80	115.44	
4470	P-3697	JB3-1582	JB3-1624	PE	80	58.98	
4471	P-3701	JB3-1624	JB3-1625	PE	80	130.47	
4474	P-3704	JB3-1624	JB3-1627	PE	80	48.02	
4475	P-3705	JB3-1627	JSf3-1602	PE	80	74.38	
4476	P-3706	JSf3-1626	JB3-1627	PE	80	91.68	
4477	P-3707	JB3-1556	JB3-1628	PE	80	83.41	
4479	P-3708	JB3-1628	JB3-1629	PE	80	67.70	
4478	P-3709	JSf3-1623	JB3-1628	PE	80	120.71	
4480	P-3710	JB3-1629	JSf3-1557	PE	80	62.38	
4481	P-3711	JSf3-1626	JB3-1629	PE	80	95.19	
4482	P-3712	JB3-1556	JB3-1630	PE	80	61.92	
4483	P-3713	JB3-1630	JB3-1545	PE	80	72.26	
4484	P-3714	JB3-1566	JB3-1630	PE	80	129.72	
4485	P-3715	JB3-1553	JB3-1631	PE	80	92.79	
4486	P-3716	JB3-1631	JB3-1564	PE	80	38.38	
4487	P-3717	JB3-1555	JB3-1632	PE	80	40.24	
4488	P-3718	JB3-1632	JB3-1566	PE	80	74.57	
4489	P-3719	JB3-1631	JB3-1632	PE	80	115.55	
4600	P-3737	JB4-1384	JB3-1642	PE	80	77.42	
4601	P-3738	JB3-1642	JB3-1370	PE	80	117.68	
4602	P-3739	JB3-1642	JB3-1407	PE	80	138.66	
4603	P-3740	JB3-1371	JB3-1643	PE	80	115.31	
4604	P-3741	JB3-1643	JB3-1401	PE	80	189.17	
4605	P-3742	JB3-1405	JB3-1643	PE	80	155.67	
4608	P-3748	JB3-1395	JB3-1646	PE	80	127.17	
4609	P-3749	JB3-1646	JB3-1404	PE	80	186.99	
4610	P-3750	JB4-1403	JB3-1646	PE	80	121.63	
4612	P-3753	JB3-1646	JSf3-1647	PE	80	102.83	
4615	P-3757	JB3-1649	JSf3-1410	PE	80	162.21	
4616	P-3758	JSf3-1648	JB3-1649	PE	80	92.19	
4617	P-3759	JB3-1408	JB3-1650	PE	80	141.79	
4618	P-3760	JB3-1650	JB3-1409	PE	80	142.41	
4619	P-3761	JB3-1649	JB3-1650	PE	80	141.07	
4620	P-3762	JB3-1406	JB3-1651	PE	80	150.12	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4621	P-3763	JB3-1651	JB3-1535	PE	80	132.98	
4622	P-3764	JB3-1650	JB3-1651	PE	80	237.79	
4625	P-3765	JB3-1401	JB3-1652	PE	80	106.66	
4623	P-3766	JB3-1652	JB3-1534	PE	80	109.05	
4624	P-3767	JB3-1651	JB3-1652	PE	80	142.66	
4626	P-3768	JB3-1652	JSf3-1645	PE	80	112.81	
4627	P-3769	JB3-1404	JB3-1649	PE	80	141.47	
4629	P-3774	JB3-1544	JB3-1654	PE	80	225.41	
4630	P-3775	JB3-1654	JB3-1655	PE	80	127.47	
4631	P-3776	JB3-1655	JB3-1656	PE	80	127.83	
4632	P-3779	JB3-1656	JB3-1657	PE	80	94.05	
4635	P-3783	JB3-1655	JB3-1659	PE	80	132.30	
4636	P-3788	JB3-1661	JSf3-1636	PE	80	165.97	
4637	P-3789	JB3-1545	JB3-1661	PE	80	215.01	
4638	P-3790	JB3-1661	JB3-1662	PE	80	123.35	
4639	P-3791	JB3-1662	JB3-1659	PE	80	110.33	
4640	P-3792	JB3-1654	JB3-1662	PE	80	174.81	
4642	P-3795	JB3-1662	JSf3-1663	PE	80	130.05	
4643	P-3796	JB3-1549	JB3-1661	PE	80	172.91	
4644	P-3797	JB3-1545	JB3-1664	PE	80	79.22	
4645	P-3798	JB3-1664	JSf3-1546	PE	80	105.87	
4647	P-3801	JB3-1664	JSf3-1665	PE	80	228.85	
4648	P-3802	JB3-1544	JB3-1666	PE	80	135.80	
4649	P-3803	JB3-1666	JB3-1661	PE	80	114.17	
4650	P-3804	JB3-1654	JB3-1666	PE	80	160.95	
4651	P-3805	JB3-1543	JB3-1667	PE	80	136.09	
4652	P-3806	JB3-1667	JB3-1657	PE	80	116.57	
4653	P-3807	JB3-1654	JB3-1667	PE	80	188.26	
4654	P-3808	JB3-1542	JB3-1668	PE	80	130.64	
4655	P-3810	JB3-1667	JB3-1669	PE	80	126.77	
4656	P-3811	JB3-1669	JB3-1668	PE	80	109.61	
4657	P-3812	JB3-1574	JB3-1669	PE	80	132.50	
4658	P-3813	JB3-1669	JB3-1670	PE	80	119.97	
4659	P-3814	JB3-1670	JSf3-1653	PE	80	231.27	
4660	P-3815	JB3-1657	JB3-1670	PE	80	114.93	
4661	P-3816	JB3-1668	JB3-1671	PE	80	133.91	
4662	P-3817	JB3-1671	JSf3-1633	PE	80	159.11	
4663	P-3818	JB3-1670	JB3-1671	PE	80	99.42	
4664	P-3820	JB3-1495	JB3-1672	PE	80	55.26	
4666	P-3821	JB3-1672	JB3-1673	PE	80	103.02	
4665	P-3822	JB3-1668	JB3-1672	PE	80	149.33	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4667	P-3823	JB3-1673	JSf3-1496	PE	80	129.51	
4669	P-3827	JB3-1671	JSf3-1674	PE	80	124.90	
4670	P-3828	JB3-1671	JB3-1675	PE	80	82.48	
4671	P-3829	JB3-1675	JB3-1673	PE	80	151.90	
4672	P-3830	JB3-1668	JB3-1675	PE	80	101.70	
4675	P-3833	JB3-1675	JSf3-1676	PE	80	128.83	
4676	P-3834	JB3-1657	JB3-1677	PE	80	144.19	
4677	P-3835	JB3-1677	JSf3-1653	PE	80	126.68	
4678	P-3836	JB3-1656	JB3-1678	PE	80	129.02	
4679	P-3837	JB3-1678	JSf3-1658	PE	80	141.82	
4680	P-3838	JB3-1677	JB3-1678	PE	80	102.51	
4681	P-3839	JB3-1655	JB3-1679	PE	80	126.79	
4682	P-3840	JB3-1679	JSf3-1634	PE	80	165.85	
4683	P-3841	JB3-1678	JB3-1679	PE	80	129.53	
4684	P-3844	JB3-1679	JB3-1680	PE	80	123.99	
4685	P-3845	JB3-1680	JSf3-1681	PE	80	189.37	
4687	P-3849	JB3-1680	JSf3-1682	PE	80	78.31	
4689	P-3855	JSf3-1637	JB3-1686	PE	80	198.92	
4690	P-3857	JB3-1687	JSf3-18	PE	80	222.90	
4691	P-3858	JSf3-1538	JB3-1688	PE	80	197.06	
4692	P-3861	JB3-1686	JSf3-1638	PE	80	255.43	
4695	P-3865	JSf3-1690	JB3-1691	PE	80	155.08	
4696	P-3867	JB3-1692	JB3-1687	PE	80	251.83	
4697	P-3868	JSf3-1689	JB3-1692	PE	80	178.73	
4698	P-3869	JB3-1686	JB3-1693	PE	80	36.22	
4699	P-3872	JB3-1688	JB3-1694	PE	80	210.65	
4700	P-3874	JB3-1691	JB3-1695	PE	80	79.17	
4701	P-3875	JB3-1695	JB3-1694	PE	80	145.58	
4702	P-3876	JB3-1688	JB3-1695	PE	80	144.34	
4705	P-3880	JB3-1539	JB3-1697	PE	80	176.12	
4706	P-3882	JSf3-1696	JB3-1697	PE	80	153.15	
4707	P-3883	JB3-1697	JB3-1694	PE	80	220.97	
4708	P-3884	JB3-1697	JB3-1698	PE	80	180.55	
4709	P-3885	JB3-1698	JB3-1686	PE	80	121.32	
4710	P-3886	JSf3-1637	JB3-1698	PE	80	161.12	
4711	P-3887	JB3-1692	JB3-1699	PE	80	196.72	
4712	P-3888	JB3-1699	JB3-1693	PE	80	164.77	
4713	P-3890	JB3-1694	JB3-1700	PE	80	213.68	
4714	P-3891	JB3-1700	JB3-1686	PE	80	167.06	
4715	P-3892	JB3-1698	JB3-1700	PE	80	97.32	
4716	P-3893	JB3-1694	JB3-1701	PE	80	174.27	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4717	P-3894	JB3-1701	JB3-1699	PE	80	174.24	
4718	P-3895	JB3-1700	JB3-1701	PE	80	109.73	
4719	P-3896	JB3-1691	JB3-1702	PE	80	147.23	
4720	P-3897	JB3-1702	JB3-1692	PE	80	143.73	
4721	P-3898	JB3-1701	JB3-1702	PE	80	166.86	
4724	P-3901	JB3-1702	JSf3-1703	PE	80	164.95	
4725	P-3902	JB3-1688	JB3-1704	PE	80	130.20	
4726	P-3903	JB3-1704	JB3-1539	PE	80	219.47	
4727	P-3904	JB3-1694	JB3-1704	PE	80	164.65	
4728	P-3905	JB3-1693	JB3-1705	PE	80	207.05	
4729	P-3906	JB3-1705	JB3-1687	PE	80	175.04	
4730	P-3907	JB3-1699	JB3-1705	PE	80	123.76	
4731	P-3910	JB3-1705	JSf3-1706	PE	80	199.05	
4734	P-3912	JB3-1687	JSf3-1707	PE	80	100.94	
4737	P-3915	JB3-1693	JB3-1709	PE	80	180.66	
4738	P-3916	JB3-1709	JSf3-1708	PE	80	162.34	
4739	P-3917	JSf3-1638	JB3-1709	PE	80	191.61	
4740	P-3918	JB3-1709	JB3-1705	PE	80	159.17	
4742	P-3926	JB3-1712	JB3-1714	PE	80	107.05	
4743	P-3931	JB3-1715	JB3-1711	PE	80	101.04	
4746	P-3956	JB3-1725	JSf3-1724	PE	80	135.67	
4747	P-3958	JB3-1715	JB3-1726	PE	80	81.82	
4748	P-3959	JB3-1726	JSf3-1716	PE	80	102.55	
4749	P-3964	JB3-1728	JB3-1723	PE	80	141.30	
4751	P-3976	JB3-1731	JB3-1732	PE	80	123.86	
4752	P-3977	JB3-1714	JB3-1733	PE	80	95.66	
4753	P-3980	JB3-1734	JB3-1726	PE	80	96.36	
4755	P-3984	JB3-1734	JSf3-1735	PE	80	126.18	
4757	P-3988	JB3-1737	JB3-1712	PE	80	74.88	
4758	P-3991	JB3-1738	JB3-1714	PE	80	84.53	
4759	P-3992	JB3-1737	JB3-1738	PE	80	102.57	
4760	P-3993	JB3-1738	JB3-1727	PE	80	100.65	
4761	P-3996	JSf3-1736	JB3-1740	PE	80	74.55	
4762	P-3997	JB3-1740	JB3-1737	PE	80	108.69	
4763	P-3999	JSf3-1683	JB3-1741	PE	80	75.73	
4764	P-4000	JB3-1741	JB3-1712	PE	80	115.26	
4765	P-4001	JB3-1740	JB3-1741	PE	80	82.86	
4766	P-4002	JB3-1741	JB3-1742	PE	80	93.36	
4767	P-4003	JB3-1711	JB3-1743	PE	80	101.80	
4768	P-4004	JB3-1743	JB3-1712	PE	80	115.58	
4769	P-4005	JB3-1742	JB3-1743	PE	80	131.39	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4770	P-4006	JB3-1714	JB3-1744	PE	80	114.77	
4771	P-4007	JB3-1744	JB3-1715	PE	80	106.99	
4772	P-4008	JB3-1743	JB3-1744	PE	80	108.60	
4773	P-4009	JB3-1733	JB3-1745	PE	80	115.87	
4774	P-4011	JB3-1744	JB3-1745	PE	80	86.00	
4775	P-4012	JSf3-1710	JB3-1746	PE	80	68.07	
4776	P-4014	JB3-1742	JB3-1746	PE	80	98.88	
4777	P-4015	JB3-1711	JB3-1747	PE	80	88.75	
4778	P-4016	JB3-1747	JSf3-1717	PE	80	99.85	
4779	P-4017	JB3-1726	JB3-1747	PE	80	103.50	
4782	P-4021	JB3-1746	JB3-1749	PE	80	45.22	
4783	P-4022	JB3-1749	JB3-1711	PE	80	96.20	
4784	P-4023	JB3-1747	JB3-1750	PE	80	100.38	
4785	P-4024	JB3-1750	JSf3-1748	PE	80	108.74	
4786	P-4025	JB3-1749	JB3-1750	PE	80	95.59	
4789	P-4028	JB3-1750	JSf3-1751	PE	80	103.07	
4790	P-4029	JB3-1745	JB3-1752	PE	80	100.23	
4791	P-4030	JB3-1752	JB3-1734	PE	80	79.92	
4792	P-4031	JB3-1715	JB3-1752	PE	80	94.72	
4793	P-4033	JB3-1753	JB3-1725	PE	80	84.56	
4794	P-4035	JB3-1723	JB3-1754	PE	80	135.56	
4795	P-4036	JB3-1754	JB3-1753	PE	80	107.51	
4796	P-4039	JB3-1732	JB3-1755	PE	80	128.48	
4797	P-4042	JB3-1755	JB3-1756	PE	80	97.68	
4798	P-4045	JB3-1756	JB3-1757	PE	80	89.59	
4799	P-4048	JB3-1757	JSf3-1758	PE	80	135.38	
4800	P-4051	JB3-1727	JB3-1760	PE	80	98.54	
4801	P-4052	JB3-1760	JB3-1731	PE	80	82.07	
4802	P-4055	JB3-1761	JB3-1732	PE	80	92.83	
4803	P-4056	JB3-1760	JB3-1761	PE	80	117.36	
4804	P-4057	JB3-1745	JB3-1762	PE	80	103.21	
4805	P-4058	JB3-1762	JB3-1755	PE	80	80.20	
4806	P-4059	JB3-1761	JB3-1762	PE	80	122.15	
4807	P-4060	JB3-1752	JB3-1763	PE	80	94.80	
4808	P-4061	JB3-1763	JB3-1756	PE	80	95.69	
4809	P-4062	JB3-1762	JB3-1763	PE	80	98.53	
4810	P-4063	JB3-1757	JB3-1764	PE	80	89.47	
4811	P-4064	JB3-1764	JB3-1734	PE	80	98.67	
4812	P-4065	JB3-1763	JB3-1764	PE	80	86.41	
4815	P-4068	JB3-1764	JSf3-1765	PE	80	132.42	
4816	P-4071	JB3-1731	JB3-1767	PE	80	85.37	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4817	P-4072	JB3-1767	JB3-1728	PE	80	112.91	
4818	P-4074	JB3-1732	JB3-1768	PE	80	72.37	
4820	P-4075	JB3-1768	JB3-1769	PE	80	64.89	
4819	P-4076	JB3-1767	JB3-1768	PE	80	105.85	
4821	P-4077	JB3-1769	JB3-1723	PE	80	81.71	
4822	P-4078	JB3-1755	JB3-1770	PE	80	140.06	
4823	P-4079	JB3-1770	JB3-1754	PE	80	85.18	
4824	P-4080	JB3-1769	JB3-1770	PE	80	131.02	
4825	P-4082	JB3-1771	JB3-1753	PE	80	82.07	
4826	P-4083	JB3-1770	JB3-1771	PE	80	110.40	
4827	P-4084	JB3-1756	JB3-1772	PE	80	79.37	
4828	P-4085	JB3-1772	JB3-1771	PE	80	49.78	
4829	P-4086	JB3-1725	JB3-1773	PE	80	137.70	
4830	P-4087	JB3-1773	JB3-1757	PE	80	83.23	
4831	P-4088	JB3-1772	JB3-1773	PE	80	88.26	
4833	P-4091	JB3-1773	JSf3-1774	PE	80	134.90	
4836	P-4102	JB3-1779	JSf3-1729	PE	80	98.07	
4837	P-4103	JB3-1723	JB3-1780	PE	80	116.31	
4838	P-4104	JB3-1780	JSf3-1719	PE	80	79.83	
4839	P-4105	JB3-1779	JB3-1780	PE	80	133.54	
4840	P-4106	JB3-1754	JB3-1781	PE	80	106.81	
4841	P-4107	JB3-1781	JSf3-1775	PE	80	112.01	
4842	P-4108	JB3-1780	JB3-1781	PE	80	192.45	
4843	P-4109	JB3-1753	JB3-1782	PE	80	100.48	
4844	P-4110	JB3-1782	JSf3-1776	PE	80	129.75	
4845	P-4111	JB3-1781	JB3-1782	PE	80	98.81	
4846	P-4112	JSf3-1641	JB3-1783	PE	80	147.36	
4847	P-4113	JB3-1783	JB3-1725	PE	80	93.81	
4848	P-4114	JB3-1782	JB3-1783	PE	80	79.40	
4851	P-4117	JB3-1783	JSf3-1784	PE	80	129.01	
4852	P-4119	JB3-1785	JB3-1786	PE	80	149.01	
4855	P-4124	JSf3-1788	JB3-1786	PE	80	102.61	
4856	P-4125	JB3-1785	JB3-1789	PE	80	143.20	
4857	P-4132	JB3-1792	JB3-1793	PE	80	157.80	
4858	P-4134	JB3-1794	JB3-1790	PE	80	116.25	
4859	P-4135	JB3-1793	JB3-1794	PE	80	91.13	
4860	P-4136	JB3-1789	JB3-1792	PE	80	154.49	
4861	P-4138	JB3-1795	JB3-1794	PE	80	175.47	
4862	P-4139	JB3-1792	JB3-1795	PE	80	135.18	
4863	P-4141	JSf3-1775	JB3-1796	PE	80	86.97	
4864	P-4142	JB3-1796	JB3-1790	PE	80	126.43	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4865	P-4143	JB3-1790	JB3-1797	PE	80	160.83	
4866	P-4144	JB3-1797	JSf3-1641	PE	80	121.91	
4867	P-4145	JSf3-1776	JB3-1797	PE	80	91.24	
4868	P-4150	JB3-1796	JB3-1799	PE	80	97.91	
4869	P-4151	JB3-1799	JB3-1789	PE	80	140.14	
4872	P-4155	JB3-1799	JSf3-1800	PE	80	106.68	
4873	P-4167	JB3-1805	JSf3-1806	PE	80	184.83	
4874	P-4176	JB3-1810	JB3-1804	PE	80	132.51	
4875	P-4178	JSf3-1641	JB3-1811	PE	80	133.74	
4876	P-4182	JB3-1814	JB3-1815	PE	80	92.46	
4877	P-4184	JB3-1794	JB3-1815	PE	80	130.98	
4878	P-4185	JB3-1815	JB3-1816	PE	80	99.75	
4879	P-4186	JB3-1804	JB3-1817	PE	80	204.42	
4880	P-4187	JB3-1817	JB3-1805	PE	80	165.91	
4886	P-4188	JB3-1816	JB3-1817	PE	80	140.37	
4887	P-4190	JB3-1794	JB3-1818	PE	80	85.78	
4888	P-4191	JB3-1818	JB3-1819	PE	80	142.79	
4889	P-4193	JB3-1820	JB3-1814	PE	80	152.75	
4890	P-4194	JB3-1819	JB3-1820	PE	80	137.55	
4891	P-4195	JB3-1818	JB3-1814	PE	80	102.39	
4892	P-4202	JB3-1819	JB3-1812	PE	80	86.90	
4893	P-4205	JB3-1812	JSf3-1824	PE	80	108.44	
4896	P-4208	JB3-1811	JSf3-1825	PE	80	117.81	
4897	P-4209	JB3-1811	JB3-1812	PE	80	136.19	
4899	P-4214	JB3-1827	JB3-1804	PE	80	121.05	
4900	P-4215	JB3-1827	JB3-1816	PE	80	107.69	
4901	P-4216	JB3-1816	JB3-1828	PE	80	252.28	
4902	P-4217	JB3-1828	JSf3-1826	PE	80	184.81	
4903	P-4218	JB3-1820	JB3-1828	PE	80	92.59	
4904	P-4219	JB3-1828	JB3-1805	PE	80	95.64	
4881	P-4220	JB3-1799	JB3-1793	PE	80	97.44	
4884	P-4223	JB3-1820	JSf3-1829	PE	80	186.52	
4885	P-4224	JB3-1797	JB3-1819	PE	80	194.90	
4906	P-4230	JB3-1817	JB3-1832	PE	80	159.93	
4907	P-4233	JB3-1832	JSf3-1833	PE	80	209.00	
4908	P-4234	JB3-1805	JB3-1834	PE	80	151.20	
4909	P-4235	JB3-1834	JB3-1832	PE	80	158.00	
4912	P-4238	JB3-1834	JSf3-1835	PE	80	190.44	
4913	P-4239	JB3-1804	JB3-1836	PE	80	205.42	
4914	P-4241	JB3-1832	JB3-1836	PE	80	191.93	
4915	P-4244	JB3-1836	JB3-1837	PE	80	175.57	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4917	P-4248	JB3-1810	JB3-1839	PE	80	88.43	
4918	P-4249	JB3-1839	JB3-1837	PE	80	112.99	
4919	P-4250	JSf3-1682	JB3-1839	PE	80	198.43	
4925	P-4262	JB3-1843	JSf3-1844	PE	80	242.85	
4926	P-4263	JSf3-1707	JB3-1843	PE	80	216.71	
4927	P-4266	JB3-1846	JB3-1843	PE	80	127.40	
4928	P-4267	JSf3-1706	JB3-1846	PE	80	199.42	
4929	P-4268	JSf3-1830	JB3-1847	PE	80	172.32	
4930	P-4269	JB3-1847	JB3-1846	PE	80	170.23	
4931	P-4270	JSf3-1708	JB3-1847	PE	80	184.07	
4934	P-4279	JSf3-1833	JB3-1850	PE	80	145.29	
4935	P-4282	JB3-1850	JB3-1851	PE	80	153.74	
4936	P-4285	JB3-1851	JB3-1852	PE	80	124.12	
4937	P-4288	JB3-1852	JSf3-1853	PE	80	280.60	
4938	P-4289	JB3-1836	JSf3-1854	PE	80	141.43	
4939	P-4290	JB3-1847	JB3-1855	PE	80	181.12	
4940	P-4291	JB3-1855	JB3-1850	PE	80	186.82	
4942	P-4292	JSf3-1854	JB3-1855	PE	80	160.37	
4943	P-4293	JB3-1846	JB3-1856	PE	80	182.22	
4944	P-4294	JB3-1856	JB3-1851	PE	80	194.39	
4945	P-4295	JB3-1855	JB3-1856	PE	80	159.59	
4946	P-4296	JB3-1843	JB3-1857	PE	80	177.00	
4947	P-4297	JB3-1857	JB3-1852	PE	80	189.11	
4948	P-4298	JB3-1856	JB3-1857	PE	80	126.38	
4951	P-4301	JB3-1857	JSf3-1858	PE	80	261.55	
4941	P-4304	JSf3-1842	JB3-1834	PE	80	236.18	
4954	P-4305	JB3-1850	JB3-1859	PE	80	185.63	
4955	P-4306	JB3-1859	JSf3-1848	PE	80	192.02	
4956	P-4307	JSf3-1842	JB3-1859	PE	80	130.79	
4957	P-4308	JB3-1851	JB3-1860	PE	80	188.63	
4958	P-4309	JB3-1860	JSf3-1849	PE	80	191.98	
4959	P-4310	JB3-1859	JB3-1860	PE	80	146.67	
4960	P-4311	JB3-1852	JB3-1861	PE	80	192.09	
4961	P-4313	JB3-1860	JB3-1861	PE	80	126.29	
4964	P-4316	JB3-1861	JSf3-1862	PE	80	299.66	
4965	P-4318	JSf3-269	JB3-1863	PE	80	158.17	
4966	P-4326	JB3-1865	JB3-1867	PE	80	109.47	
4967	P-4328	JB3-1867	JSf3-1866	PE	80	101.21	
4968	P-4330	JSf3-261	JB3-1868	PE	80	97.32	
4970	P-4336	JB3-1870	JB3-1868	PE	80	98.27	
4971	P-4337	JSf3-1869	JB3-1870	PE	80	102.65	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4972	P-4338	JB3-1870	JB3-1871	PE	80	117.79	
4973	P-4340	JB3-1872	JB3-262	PE	80	88.15	
4974	P-4343	JB3-1868	JB3-1873	PE	80	125.54	
4975	P-4345	JB3-1871	JB3-1873	PE	80	91.64	
4978	P-4348	JB3-1867	JB3-1875	PE	80	104.47	
4979	P-4349	JB3-1875	JB3-1870	PE	80	112.53	
4980	P-4350	JSf3-1874	JB3-1875	PE	80	100.83	
4981	P-4351	JB3-1865	JB3-1876	PE	80	102.72	
4982	P-4352	JB3-1876	JB3-1871	PE	80	114.11	
4983	P-4353	JB3-1875	JB3-1876	PE	80	115.67	
4984	P-4354	JB3-1876	JB3-1877	PE	80	133.24	
4985	P-4355	JB3-1864	JB3-1878	PE	80	86.74	
4986	P-4357	JB3-1877	JB3-1878	PE	80	97.13	
4987	P-4358	JB3-1864	JB3-1879	PE	80	101.51	
4988	P-4359	JB3-1879	JB3-1865	PE	80	130.37	
4989	P-4361	JB3-1879	JB3-1877	PE	80	83.81	
4990	P-4362	JB3-1871	JB3-1880	PE	80	142.59	
4991	P-4363	JB3-1880	JB3-1872	PE	80	98.75	
4992	P-4364	JB3-1877	JB3-1880	PE	80	107.81	
4993	P-4365	JB3-1873	JB3-1881	PE	80	151.41	
4994	P-4366	JB3-1881	JB3-262	PE	80	91.65	
4995	P-4367	JB3-1880	JB3-1881	PE	80	86.57	
4998	P-4370	JSf3-1751	JB3-1883	PE	80	77.37	
4999	P-4371	JB3-1883	JB3-1867	PE	80	76.41	
5000	P-4372	JSf3-1882	JB3-1883	PE	80	104.47	
5001	P-4373	JSf3-1717	JB3-1884	PE	80	81.62	
5002	P-4374	JB3-1884	JB3-1865	PE	80	78.42	
5003	P-4375	JB3-1883	JB3-1884	PE	80	105.38	
5004	P-4376	JSf3-1716	JB3-1885	PE	80	77.79	
5005	P-4377	JB3-1885	JB3-1879	PE	80	110.51	
5006	P-4378	JB3-1884	JB3-1885	PE	80	110.65	
5007	P-4379	JSf3-1735	JB3-1886	PE	80	61.65	
5008	P-4380	JB3-1886	JB3-1864	PE	80	105.92	
5009	P-4381	JB3-1885	JB3-1886	PE	80	102.82	
5010	P-4382	JB3-1886	JB3-1887	PE	80	103.41	
5011	P-4383	JSf3-1765	JB3-1887	PE	80	64.20	
5012	P-4385	JB3-1888	JB3-1864	PE	80	99.63	
5013	P-4386	JB3-1887	JB3-1888	PE	80	95.85	
5014	P-4387	JB3-262	JB3-1889	PE	80	96.22	
5015	P-4390	JB3-1878	JB3-1890	PE	80	54.33	
5016	P-4391	JB3-1890	JB3-1872	PE	80	50.68	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5017	P-4392	JB3-1888	JB3-1891	PE	80	139.17	
5018	P-4393	JB3-1891	JB3-1889	PE	80	136.82	
5019	P-4394	JB3-1890	JB3-1891	PE	80	99.38	
5020	P-4395	JB3-1891	JB3-1892	PE	80	97.55	
5021	P-4396	JB3-1863	JB3-1893	PE	80	136.18	
5022	P-4397	JB3-1893	JB3-263	PE	80	129.01	
5023	P-4398	JB3-1892	JB3-1893	PE	80	86.48	
5026	P-4401	JB3-1863	JB3-1895	PE	80	97.81	
5027	P-4402	JB3-1895	JB3-1888	PE	80	95.86	
5028	P-4403	JSf3-1894	JB3-1895	PE	80	156.56	
5029	P-4404	JB3-1895	JB3-1892	PE	80	138.19	
5030	P-4405	JB3-1889	JB3-1896	PE	80	95.07	
5031	P-4406	JB3-1896	JB3-263	PE	80	84.89	
5032	P-4407	JB3-1892	JB3-1896	PE	80	130.58	
3322	P-6704	JB3-1659	JSf3-1838	PE	80	99.19	
3522	P-6706	JSf3-1838	JB3-1810	PE	80	192.56	
3523	P-6707	JSf3-1663	JB3-1807	PE	80	160.51	
3524	P-6708	JB3-1807	JB3-1810	PE	80	130.04	
3525	P-6711	JSf3-1636	JB3-1787	PE	80	131.40	
3526	P-6712	JB3-1787	JB3-1807	PE	80	121.81	
3527	P-6713	JB3-1787	JB3-1786	PE	80	167.87	
3528	P-6714	JB3-1786	JB3-1792	PE	80	157.56	
3529	P-6715	JB3-1787	JB3-1795	PE	80	161.30	
3530	P-6716	JB3-1795	JB3-1827	PE	80	137.49	
3531	P-6717	JB3-1807	JB3-1827	PE	80	164.90	
3532	P-6718	JSf3-1557	JB3-1785	PE	80	116.86	
3534	P-6720	JSf3-1602	JB3-1779	PE	80	122.27	
3535	P-6721	JB3-1785	JSf3-1729	PE	80	121.56	
3536	P-6722	JB3-1789	JSf3-1719	PE	80	121.16	
3537	P-6723	JSf3-1597	JB3-1728	PE	80	133.96	
3538	P-6724	JSf3-1601	JB3-1767	PE	80	130.33	
3555	P-6725	JSf3-1600	JB3-1731	PE	80	107.67	
3556	P-6726	JB3-1596	JB3-2551	PE	80	58.41	
3557	P-6727	JB3-2551	JB3-1586	PE	80	85.93	
3560	P-6733	JB3-2551	JSf3-2555	PE	80	89.29	
3561	P-6746	JSf3-2555	JB3-1760	PE	80	103.93	
3562	P-6747	JSf3-1588	JB3-1727	PE	80	97.36	
3563	P-6748	JSf3-1593	JB3-1738	PE	80	114.29	
3564	P-6749	JSf3-1591	JB3-1737	PE	80	110.59	
3565	P-6753	JSf3-2556	JB3-1740	PE	80	109.80	
4290	PB3-3386	JSf3-10	JB3-1000	PE	80	23.44	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3553	P-6821	JB3-1466	JB3-1609	PE	80	119.24	
3554	P-6822	JB3-1577	JB3-1612	PE	80	153.52	
3607	P-6823	JB3-1577	JB3-1578	PE	80	143.38	
3608	P-6825	JB3-1577	JB3-1531	PE	80	76.75	
3609	P-6826	JB3-1579	JB3-1584	PE	80	92.60	
3610	P-6827	JB3-1587	JB3-1585	PE	80	116.66	
3611	P-6829	JB3-1610	JB3-1611	PE	80	129.64	
3612	P-6830	JB3-1611	JB3-1576	PE	80	150.96	
3598	P-6812	JB3-1861	JSf3-2594	PE	80	195.20	
3601	P-6817	JSf3-1830	JB3-1837	PE	80	120.77	
3613	P-6832	JB3-1610	JB3-1467	PE	80	95.17	
3615	P-6834	JB3-1590	JB3-1592	PE	80	126.90	
3684	P-6857	JB3-1389	JB3-1642	PE	80	130.72	
3685	P-6858	JSf3-1372	JB3-1379	PE	80	136.12	
3686	P-6859	JB3-1391	JB3-1379	PE	80	216.56	
3687	P-6861	JB3-1779	JB3-1728	PE	80	120.09	
3688	P-6863	JB3-1727	JB3-1733	PE	80	110.24	
3616	P-6864	JB3-1595	JB3-1596	PE	80	103.35	
3618	P-6866	JB3-1576	JB3-1575	PE	80	98.76	
3619	P-6867	JB3-1620	JB3-1625	PE	80	101.23	
3689	P-6868	JB3-1733	JB3-1761	PE	80	96.89	
3620	P-6869	JB3-1580	JB3-1583	PE	80	136.26	
3621	P-6870	JB3-1583	JB3-1625	PE	80	88.80	
3622	P-6871	JB3-1625	JSf3-1597	PE	80	120.49	
3623	P-6872	JB3-1620	JB3-1622	PE	80	112.30	
3690	P-6875	JB3-1680	JB3-1659	PE	80	122.54	
Drannage				PE	80	150.00	79,558.67
3913	P-2731	JE3-1219	JE3-1220	PE	80	97.15	
3916	P-2738	JB3-1223	JB3-1224	PE	80	148.38	
3918	P-2741	JSf3-1225 (JE3)	JB3-1222	PE	80	120.12	
3919	P-2742	JB3-1222	JB3-1226	PE	80	108.66	
3921	P-2745	JE3-1221	JB3-1227	PE	80	248.94	
3922	P-2746	JB3-1227	JB3-1222	PE	80	189.75	
3923	P-2748	JB3-1228	JB3-1226	PE	80	203.67	
3924	P-2749	JB3-1227	JB3-1228	PE	80	96.82	
3926	P-2752	JE3-1229	JB3-1230	PE	80	149.81	
3927	P-2753	JB3-1230	JE3-09	PE	80	201.08	
3929	P-2755	JE3-1231	JB3-1232	PE	80	95.37	
3930	P-2756	JB3-1232	JE3-1233	PE	80	154.28	
3934	P-2767	JE3-1220	JB3-1239	PE	80	162.19	
3935	P-2768	JB3-1239	JB3-1228	PE	80	78.81	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3937	P-2769	JB3-1239	JB3-1240	PE	80	51.42	
3936	P-2770	JB3-1230	JB3-1232	PE	80	71.57	
3938	P-2771	JB3-1240	JB3-1230	PE	80	48.02	
3941	P-2775	JB3-1240	JB3-1242	PE	80	139.32	
3942	P-2776	JB3-1242	JB3-1223	PE	80	115.66	
3943	P-2777	JB3-1241	JB3-1242	PE	80	146.73	
3948	P-2782	JE3-1243	JE3-1244	PE	80	82.90	
3956	P-2798	JB3-1247	JB3-1252	PE	80	143.20	
3957	P-2799	JB3-1252	JB3-1234	PE	80	86.38	
3958	P-2801	JB3-1246	JB3-1253	PE	80	130.02	
3959	P-2803	JB3-1253	JB3-1254	PE	80	158.91	
3960	P-2804	JB3-1254	JB3-1234	PE	80	154.63	
3961	P-2805	JSf3-1235	JB3-1255	PE	80	132.37	
3962	P-2806	JB3-1255	JSf3-1236	PE	80	173.66	
3963	P-2807	JB3-1254	JB3-1255	PE	80	147.31	
3966	P-2810	JSf3-1256	JB3-1257	PE	80	263.41	
3967	P-2811	JB3-1257	JSf3-1258	PE	80	183.84	
3969	P-2813	JB3-1257	JB3-249	PE	80	135.80	
3974	P-2820	JB3-1261	JB3-1262	PE	80	97.03	
3975	P-2821	JB3-1262	JB3-1223	PE	80	78.81	
3978	P-2824	JB3-1262	JB3-1263	PE	80	149.89	
3979	P-2825	JSf3-1260 (JE3)	JB3-1264	PE	80	162.01	
3980	P-2826	JB3-1264	JB3-1261	PE	80	109.14	
3981	P-2827	JB3-1264	JSf3-1265	PE	80	177.61	
3986	P-2833	JSf3-1267 (JE3)	JB3-1268	PE	80	132.79	
3988	P-2837	JB3-1268	JE3-1269	PE	80	111.10	
3989	P-2838	JB3-1261	JSf3-1270	PE	80	143.64	
3993	P-2843	JSf3-1271 (JE3)	JB3-1272	PE	80	173.79	
3994	P-2844	JB3-1272	JB3-1273	PE	80	87.28	
3996	P-2847	JB3-1273	JB3-1274	PE	80	164.61	
3997	P-2848	JSf3-1265	JB3-1275	PE	80	127.64	
3998	P-2849	JB3-1275	JB3-1268	PE	80	49.26	
4001	P-2852	JB3-1275	JB3-1277	PE	80	180.77	
4002	P-2853	JB3-1277	JE3-1276	PE	80	75.07	
4006	P-2856	JB3-1277	JB3-1279	PE	80	32.02	
4005	P-2857	JE3-1278	JB3-1273	PE	80	138.99	
4007	P-2858	JB3-1279	JE3-1278	PE	80	121.39	
4008	P-2859	JE3-1269	JB3-1279	PE	80	233.43	
4009	P-2860	JB3-1272	JB3-1280	PE	80	66.75	
4011	P-2865	JB3-1282	JB3-1283	PE	80	103.83	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4014	P-2869	JB3-1280	JB3-1285	PE	80	178.26	
4015	P-2870	JB3-1285	JB3-06	PE	80	66.64	
4016	P-2871	JB3-1285	JB3-1282	PE	80	85.20	
4017	P-2873	JB3-1286	JB3-1282	PE	80	113.16	
4018	P-2874	JB3-1283	JB3-1287	PE	80	111.63	
4019	P-2876	JB3-1286	JB3-1287	PE	80	123.80	
4020	P-2877	JSf3-1281 (JE3)	JB3-1288	PE	80	185.29	
4021	P-2878	JB3-1288	JB3-1286	PE	80	94.34	
4022	P-2879	JB3-1280	JB3-1288	PE	80	163.43	
4023	P-2881	JB3-1289	JSf3-12 (JE3)	PE	80	32.91	
4024	P-2882	JB3-1283	JB3-1289	PE	80	164.35	
4025	P-2883	JB3-1289	JSf3-1290	PE	80	90.51	
4027	P-2885	JSf3-1290	JB3-1291	PE	80	155.20	
4033	P-2905	JE3-08	JB3-1300	PE	80	115.19	
4034	P-2906	JB3-1300	JB3-1299	PE	80	127.26	
4035	P-2907	JB3-1299	JB3-1301	PE	80	149.66	
4036	P-2908	JB3-1301	JB3-1247	PE	80	55.51	
4037	P-2909	JB3-1300	JB3-1302	PE	80	159.96	
4038	P-2910	JB3-1302	JB3-1301	PE	80	170.91	
4039	P-2911	JE3-1245	JB3-1303	PE	80	93.09	
4040	P-2912	JB3-1303	JB3-1246	PE	80	88.66	
4041	P-2913	JB3-1302	JB3-1303	PE	80	66.48	
4043	P-2916	JE3-1304	JB3-1253	PE	80	166.35	
4046	P-2918	JB3-1253	JB3-1306	PE	80	59.36	
4047	P-2919	JB3-1306	JSf3-1248	PE	80	137.01	
4048	P-2920	JE3-1305	JB3-1306	PE	80	175.50	
4049	P-2921	JB3-1246	JB3-1234	PE	80	224.53	
4050	P-2922	JB3-1257	JB3-1307	PE	80	191.14	
4051	P-2923	JB3-1307	JB3-1308	PE	80	116.41	
4054	P-2926	JB3-1308	JSf3-1309	PE	80	78.41	
4055	P-2927	JB3-250	JB3-1310	PE	80	155.24	
4057	P-2928	JB3-1310	JB3-1311	PE	80	127.46	
4056	P-2929	JB3-1307	JB3-1310	PE	80	131.40	
4058	P-2930	JB3-1311	JSf3-254	PE	80	115.45	
4059	P-2931	JB3-1311	JB3-1308	PE	80	190.28	
4061	P-2934	JSf3-254	JB3-1313	PE	80	147.57	
4062	P-2935	JB3-1313	JB3-251	PE	80	107.54	
4063	P-2936	JSf3-1312	JB3-1313	PE	80	242.03	
4064	P-2939	JB3-1315	JB3-1296	PE	80	81.87	
4065	P-2940	JB3-1314	JB3-1315	PE	80	147.15	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4066	P-2941	JE3-1276	JB3-1314	PE	80	102.06	
4067	P-2946	JSf3-1295	JB3-251	PE	80	276.19	
4070	P-2949	JSf3-1237	JB3-1317	PE	80	141.58	
4071	P-2950	JB3-1317	JSf3-1316	PE	80	138.53	
4072	P-2952	JB3-1318	JSf3-1312	PE	80	117.69	
4073	P-2953	JB3-1317	JB3-1318	PE	80	97.09	
4074	P-2954	JSf3-1251	JB3-1319	PE	80	100.77	
4075	P-2955	JB3-1319	JB3-1314	PE	80	102.06	
4076	P-2956	JB3-1317	JB3-1319	PE	80	174.37	
4077	P-2957	JB3-1314	JB3-1320	PE	80	108.72	
4078	P-2958	JB3-1320	JB3-1318	PE	80	56.79	
4079	P-2959	JB3-1315	JB3-1321	PE	80	106.53	
4080	P-2960	JB3-1321	JSf3-1295	PE	80	121.03	
4081	P-2961	JB3-1320	JB3-1321	PE	80	173.79	
4082	P-2962	JB3-1234	JB3-1322	PE	80	105.41	
4083	P-2963	JB3-1322	JSf3-1237	PE	80	148.55	
4084	P-2964	JB3-1255	JB3-1322	PE	80	150.30	
4085	P-2966	JSf3-1323	JB3-1293	PE	80	128.23	
4086	P-2969	JB3-1324	JSf3-1323	PE	80	123.88	
4087	P-2971	JB3-06	JB3-1325	PE	80	45.91	
4088	P-2972	JB3-1325	JB3-1324	PE	80	101.03	
4089	P-2973	JB3-1315	JB3-1326	PE	80	119.41	
4091	P-2974	JB3-1326	JB3-1327	PE	80	42.33	
4090	P-2975	JB3-1274	JB3-1326	PE	80	61.97	
4092	P-2976	JB3-1327	JB3-1325	PE	80	98.67	
4093	P-2978	JB3-1328	JB3-1324	PE	80	107.79	
4094	P-2979	JB3-1327	JB3-1328	PE	80	110.20	
4095	P-2980	JB3-1321	JB3-1329	PE	80	91.99	
4096	P-2981	JB3-1329	JB3-1328	PE	80	72.73	
4099	P-2984	JB3-1329	JSf3-1330	PE	80	121.67	
4100	P-2985	JSf3-1330	JB3-1331	PE	80	180.33	
4101	P-2986	JB3-1293	JB3-1332	PE	80	72.74	
4102	P-2988	JB3-1331	JB3-1333	PE	80	194.28	
4103	P-2989	JB3-1333	JB3-1332	PE	80	58.77	
4104	P-2991	JB3-1334	JB3-1294	PE	80	201.43	
4105	P-2992	JB3-1333	JB3-1334	PE	80	114.70	
4106	P-2993	JB3-251	JB3-1335	PE	80	115.62	
4107	P-2994	JB3-1335	JB3-1334	PE	80	127.31	
4108	P-2995	JB3-1331	JB3-1335	PE	80	111.61	
4109	P-2996	JB3-06	JB3-1336	PE	80	229.43	
4110	P-2997	JB3-1336	JB3-1289	PE	80	83.71	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4111	P-2998	JB3-1324	JB3-1336	PE	80	109.92	
4113	P-3000	JB3-1293	JB3-1291	PE	80	165.98	
4114	P-3001	JB3-1291	JB3-1337	PE	80	83.74	
4115	P-3003	JB3-1337	JB3-1338	PE	80	107.92	
4116	P-3004	JB3-1332	JB4-1339	PE	80	73.01	
4117	P-3005	JB4-1339	JB3-1294	PE	80	101.33	
4118	P-3006	JB3-1338	JB4-1339	PE	80	131.77	
4119	P-3007	JB3-1294	JB3-1340	PE	80	119.93	
4121	P-3012	JB3-1337	JB3-1342	PE	80	78.48	
4122	P-3013	JB3-1342	JSf3-1341 (JE3)	PE	80	232.57	
4126	P-3023	JB3-1344	JB3-1347	PE	80	38.44	
4127	P-3025	JE3-1346	JB3-1347	PE	80	167.84	
4128	P-3026	JE3-1343	JB3-1348	PE	80	145.11	
4129	P-3027	JB3-1348	JB3-1344	PE	80	95.24	
4131	P-3030	JB3-1348	JSf3-1349 (JE3)	PE	80	178.30	
4132	P-3031	JB3-1287	JB3-1350	PE	80	180.98	
4133	P-3032	JB3-1350	JSf3-1284 (JE3)	PE	80	108.60	
4136	P-3035	JB3-1350	JE3-1351	PE	80	105.18	
4137	P-3036	JB3-1347	JB3-1352	PE	80	151.95	
4138	P-3037	JB3-1352	JSf3-1345 (JE3)	PE	80	115.79	
4139	P-3038	JE3-1351	JB3-1352	PE	80	177.17	
4140	P-3039	JB3-1287	JE3-1346	PE	80	110.10	
4214	P-3189	JB3-1298	JB3-1414	PE	80	130.27	
4215	P-3190	JB3-1414	JSf3-1357	PE	80	98.52	
4217	P-3195	JB3-1298	JB3-1416	PE	80	86.48	
4218	P-3196	JB3-1416	JSf3-1356	PE	80	95.49	
4219	P-3197	JB3-1414	JB3-1417	PE	80	99.47	
4220	P-3198	JB3-1417	JSf3-1415	PE	80	142.52	
4221	P-3199	JB3-1416	JB3-1417	PE	80	123.79	
4222	P-3200	JSf3-1297	JB3-1418	PE	80	177.10	
4225	P-3204	JB3-1418	JB3-1420	PE	80	159.34	
4226	P-3205	JB3-1420	JSf3-1419	PE	80	98.96	
4227	P-3206	JB3-250	JB3-1421	PE	80	125.99	
4228	P-3207	JB3-1421	JB3-1298	PE	80	246.40	
4229	P-3208	JB3-1420	JB3-1421	PE	80	191.09	
4230	P-3209	JB3-1418	JB3-1422	PE	80	46.38	
4231	P-3210	JB3-1422	JB3-1298	PE	80	157.14	
4232	P-3214	JB3-1311	JB3-1424	PE	80	165.17	
4233	P-3215	JB3-1424	JB3-1414	PE	80	181.13	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4234	P-3216	JB3-1421	JB3-1424	PE	80	224.63	
4236	P-3219	JB3-1424	JSf3-1425	PE	80	118.62	
4239	P-3222	JB3-251	JB3-1427	PE	80	88.83	
4240	P-3224	JSf3-1426	JB3-1428	PE	80	155.12	
4241	P-3225	JB3-1428	JB3-1427	PE	80	98.53	
4242	P-3226	JB3-1313	JB3-1428	PE	80	112.23	
4243	P-3228	JB3-1429	JB3-1358	PE	80	140.95	
4244	P-3230	JB3-1358	JB3-1430	PE	80	186.00	
4245	P-3233	JB3-1362	JB3-1431	PE	80	253.04	
4246	P-3234	JB3-1431	JB3-1363	PE	80	91.02	
4247	P-3237	JB3-1432	JB3-1430	PE	80	98.65	
4248	P-3238	JB3-1429	JB3-1432	PE	80	155.72	
4251	P-3241	JB3-1430	JB3-1434	PE	80	76.09	
4252	P-3242	JB3-1434	JSf3-1354	PE	80	108.51	
4253	P-3244	JSf3-1357	JB3-1435	PE	80	87.57	
4254	P-3245	JB3-1435	JB3-1429	PE	80	92.90	
4255	P-3246	JSf3-1415	JB3-1436	PE	80	89.01	
4256	P-3247	JB3-1436	JB3-1432	PE	80	107.73	
4257	P-3248	JB3-1435	JB3-1436	PE	80	139.41	
4258	P-3249	JSf3-1433	JB3-1437	PE	80	85.84	
4259	P-3250	JB3-1437	JB3-1434	PE	80	181.99	
4260	P-3251	JB3-1436	JB3-1437	PE	80	67.97	
4261	P-3252	JB3-1428	JB3-1438	PE	80	99.92	
4262	P-3253	JB3-1438	JB3-1429	PE	80	170.68	
4263	P-3254	JSf3-1425	JB3-1438	PE	80	155.58	
4264	P-3255	JB3-1427	JB3-1439	PE	80	107.09	
4265	P-3256	JB3-1439	JB3-1358	PE	80	170.59	
4266	P-3257	JB3-1438	JB3-1439	PE	80	135.37	
4490	P-3258	JB3-1334	JB3-1440	PE	80	169.46	
4491	P-3259	JB3-1440	JB3-1362	PE	80	104.87	
4492	P-3261	JB3-1359	JB3-1441	PE	80	119.51	
4493	P-3262	JB3-1441	JB3-1294	PE	80	115.54	
4494	P-3263	JB3-1440	JB3-1441	PE	80	230.87	
4495	P-3264	JB3-1362	JB3-1442	PE	80	149.11	
4496	P-3265	JB3-1442	JB3-1359	PE	80	152.04	
4497	P-3268	JB3-1442	JB3-1443	PE	80	278.66	
4498	P-3269	JB3-1363	JB3-1444	PE	80	41.65	
4499	P-3270	JB3-1444	JB3-1443	PE	80	97.01	
4501	P-3273	JB3-1444	JSf3-1445	PE	80	181.27	
4502	P-3274	JB3-1439	JB3-1446	PE	80	92.59	
4503	P-3275	JB3-1446	JB3-1440	PE	80	111.13	

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
4504	P-3276	JB3-1335	JB3-1446	PE	80	183.17	
4505	P-3277	JB3-1430	JB3-1447	PE	80	78.85	
4506	P-3279	JB3-1363	JB3-1448	PE	80	158.91	
4507	P-3280	JB3-1448	JSf3-1364	PE	80	48.13	
4508	P-3281	JB3-1447	JB3-1448	PE	80	178.35	
4509	P-3282	JB3-1358	JB3-1449	PE	80	32.65	
4510	P-3283	JB3-1449	JB3-1362	PE	80	150.94	
4511	P-3284	JB3-1447	JB3-1450	PE	80	82.77	
4512	P-3285	JB3-1450	JB3-1431	PE	80	98.58	
4513	P-3286	JB3-1449	JB3-1450	PE	80	255.49	
4514	P-3291	JB3-1344	JE3-1453	PE	80	84.44	
4515	P-3292	JE3-1453	JSf3-1353	PE	80	20.36	
4519	P-3297	JB3-1342	JB3-1455	PE	80	131.32	
4520	P-3299	JSf3-13 (JE3)	JB3-1455	PE	80	219.99	
4521	P-3300	JB3-1337	JB3-1456	PE	80	135.54	
4522	P-3302	JB3-1455	JB3-1456	PE	80	105.69	
4523	P-3303	JB3-1340	JB3-1457	PE	80	106.39	
4524	P-3306	JB3-1338	JB3-1458	PE	80	47.88	
4525	P-3307	JB3-1458	JB3-1340	PE	80	146.09	
4526	P-3308	JB3-1456	JB3-1459	PE	80	33.90	
4527	P-3310	JB3-1458	JB3-1459	PE	80	132.85	
4280	P-3374	JB3-1487	JB3-1488	PE	80	63.33	
4281	P-3375	JB3-1488	JB3-1457	PE	80	192.14	
4282	P-3376	JB3-1359	JB3-1488	PE	80	94.22	
4283	P-3377	JSf3-1486	JB3-1489	PE	80	276.51	
4284	P-3378	JB3-1489	JB3-1487	PE	80	122.51	
4285	P-3379	JB3-1443	JB3-1489	PE	80	109.85	
4286	P-3382	JSf3-1490	JB3-1487	PE	80	17.05	
4287	P-3383	JB3-1459	JB3-1491	PE	80	56.53	
4288	P-3384	JB3-1491	JB3-1457	PE	80	130.31	
4289	P-3385	JSf3-1485	JB3-1491	PE	80	19.63	
3933	PB3-2765	JSf3-1238	JE3-10	PE	80	45.58	
3995	PB3-2846	JB3-1274	JB3-06	PE	80	128.13	
4030	PB3-2894	JE3-11	JB3-1296	PE	80	25.81	
4031	PB3-2895	JB3-1296	JB3-1274	PE	80	123.01	
4032	PB3-2903	JE3-1233	JB3-1299	PE	80	48.04	
2524	PB3-407	JSf3-248	JB3-249	PE	80	247.60	
2525	PB3-408	JB3-249	JB3-250	PE	80	45.34	
3682	P-6855	JB3-1252	JB3-1249	PE	80	163.88	
3683	P-6856	JB3-1252	JSf3-1251	PE	80	272.52	
3625	P-6874	JB3-1422	JSf3-2653	PE	80	142.57	KTC Total↓

Q3 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
Drainage				PE	80	70.00	32,635.11
φ80 Total						112,193.78	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
Q4 Block						142,986.07	Total
Drainage				Ductile Iron	300	10.00	
φ300 Total						10.00	
5190	PSf4-4711	JSf4-2036	JSf4-2037	Ductile Iron	200	103.04	
5191	PSf4-4713	JSf4-2038	JSf4-26	Ductile Iron	200	114.83	
5192	PSf4-4714	JSf4-26	JSf4-2040	Ductile Iron	200	157.31	
5196	PSf4-4718	JSf4-2043	JSf4-2044	Ductile Iron	200	109.13	
5197	PSf4-4719	JSf4-2044	JSf4-2045	Ductile Iron	200	68.93	
5198	PSf4-4720	JSf4-2045	JSf4-4444	Ductile Iron	200	83.03	
5199	PSf4-4721	JSf4-4444	JSf4-26	Ductile Iron	200	116.29	
5242	PSf4-4777	JSf4-25	JSf4-2067	Ductile Iron	200	118.71	
5243	PSf4-4778	JSf4-2067	JSf4-2036	Ductile Iron	200	97.84	
5251	PSf4-4787	JSf4-2070	JSf4-2043	Ductile Iron	200	109.88	
5260	PSf4-4799	JSf4-18	JSf4-2070	Ductile Iron	200	161.45	
5271	PSf4-4811	JSf4-2040	JSf4-2080	Ductile Iron	200	170.72	
5275	PSf4-4815	JSf4-19	JSf4-2081	Ductile Iron	200	103.40	
5276	PSf4-4816	JSf4-2081	JSf4-391 (JE4)	Ductile Iron	200	92.90	
5298	PSf4-4844	JSf4-2092	JSf4-391 (JE4)	Ductile Iron	200	113.59	
5299	PSf4-4848	JSf4-2093	JSf4-20	Ductile Iron	200	188.09	
5301	PSf4-4851	JSf4-21	JSf4-2096	Ductile Iron	200	135.18	
5302	PSf4-4852	JSf4-2096	JSf4-20	Ductile Iron	200	126.34	
5305	PSf4-4856	JSf4-2092	JSf4-2098	Ductile Iron	200	155.01	
5324	PSf4-4883	JSf4-2104	JSf4-2109	Ductile Iron	200	165.32	
5330	PSf4-4890	JSf4-2098	JSf4-2112	Ductile Iron	200	158.86	
5331	PSf4-4891	JSf4-2112	JSf4-2093	Ductile Iron	200	118.44	
5343	PSf4-4909	JSf4-20	JSf4-2119	Ductile Iron	200	158.87	
5348	PSf4-4915	JSf4-2119	JSf4-2121	Ductile Iron	200	147.78	
5351	PSf4-4919	JSf4-28	JM-41	Ductile Iron	200	22.29	
5352	PSf4-4920	JSf4-2047	JSf4-27	Ductile Iron	200	154.40	
5359	PSf4-4932	JSf4-2126	JSf4-2128	Ductile Iron	200	131.91	
5360	PSf4-4933	JSf4-2128	JSf4-28	Ductile Iron	200	167.79	
5367	PSf4-4943	JSf4-2037	JSf4-2132	Ductile Iron	200	52.28	
5368	PSf4-4944	JSf4-2132	JSf4-2038	Ductile Iron	200	60.62	
5372	PSf4-4960	JSf4-2138	JSf4-31	Ductile Iron	200	150.09	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5374	PSf4-4966	JSf4-2140	JSf4-2138	Ductile Iron	200	146.40	
5379	PSf4-4979	JM-39	JSf4-2145	Ductile Iron	200	149.74	
5393	PSf4-4997	JSf4-30	JSf4-2152	Ductile Iron	200	82.37	
5394	PSf4-4998	JSf4-2152	JSf4-2131	Ductile Iron	200	86.15	
5402	PSf4-5008	JSf4-2131	JSf4-2156	Ductile Iron	200	110.69	
5412	PSf4-5027	JSf4-2145	JSf4-2163	Ductile Iron	200	104.76	
5417	PSf4-5034	JSf4-2165	JSf4-2140	Ductile Iron	200	102.51	
5419	PSf4-5041	JSf4-2147	JSf4-2169	Ductile Iron	200	132.06	
5422	PSf4-5048	JSf4-2080	JSf4-2700	Ductile Iron	200	72.97	
5423	PSf4-5049	JSf4-2700	JSf4-2047	Ductile Iron	200	70.11	
5430	PSf4-5063	JSf4-2156	JSf4-2177	Ductile Iron	200	68.62	
5431	PSf4-5064	JSf4-2177	JSf4-2134	Ductile Iron	200	64.56	
5460	PSf4-5109	JSf4-31	JSf4-2194	Ductile Iron	200	139.06	
5461	PSf4-5110	JSf4-2194	JSf4-2183	Ductile Iron	200	116.95	
5462	PSf4-5112	JSf4-32	JSf4-2195	Ductile Iron	200	122.22	
5463	PSf4-5113	JSf4-2195	JSf4-2184	Ductile Iron	200	143.02	
5468	PSf4-5119	JSf4-2183	JSf4-2197	Ductile Iron	200	131.59	
5469	PSf4-5120	JSf4-2197	JSf4-36	Ductile Iron	200	121.99	
5470	PSf4-5122	JSf4-2184	JSf4-2198	Ductile Iron	200	156.68	
5471	PSf4-5123	JSf4-2198	JSf4-37	Ductile Iron	200	200.50	
5473	PSf4-5128	JSf4-2200	JSf4-2134	Ductile Iron	200	66.60	
5485	PSf4-5144	JSf4-2160	JSf4-2206	Ductile Iron	200	65.97	
5486	PSf4-5145	JSf4-2206	JSf4-2200	Ductile Iron	200	64.06	
5506	PSf4-5173	JSf4-31	JSf4-2216	Ductile Iron	200	67.66	
5507	PSf4-5174	JSf4-2216	JSf4-2160	Ductile Iron	200	66.85	
5521	PSf4-5190	JSf4-36	JSf4-35	Ductile Iron	200	75.10	
5523	PSf4-5192	JSf4-34	JSf4-2223	Ductile Iron	200	77.24	
5542	PSf4-5226	JSf4-2223	JSf4-2236	Ductile Iron	200	63.51	
5543	PSf4-5227	JSf4-2236	JSf4-2224	Ductile Iron	200	81.62	
5547	PSf4-5232	JSf4-2224	JSf4-2238	Ductile Iron	200	70.83	
5548	PSf4-5233	JSf4-2238	JSf4-2225	Ductile Iron	200	68.49	
5550	PSf4-5238	JSf4-2225	JSf4-2240	Ductile Iron	200	68.22	
5551	PSf4-5239	JSf4-2240	JSf4-2226	Ductile Iron	200	63.83	
5552	PSf4-5241	JSf4-2226	JSf4-2241	Ductile Iron	200	66.50	
5554	PSf4-5242	JSf4-2241	JSf4-2242	Ductile Iron	200	64.78	
5555	PSf4-5244	JSf4-2242	JSf4-35	Ductile Iron	200	51.09	
5565	PSf4-5255	JSf4-31	JSf4-2246	Ductile Iron	200	62.28	
5573	PSf4-5266	JSf4-2246	JSf4-2250	Ductile Iron	200	60.30	
5579	PSf4-5275	JSf4-2250	JSf4-2253	Ductile Iron	200	63.97	
5593	PSf4-5300	JSf4-2253	JSf4-2262	Ductile Iron	200	64.91	
5601	PSf4-5312	JSf4-2257	JSf4-2266	Ductile Iron	200	64.13	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5613	PSf4-5332	JSf4-2266	JSf4-2273	Ductile Iron	200	159.01	
5617	PSf4-5337	JSf4-2262	JSf4-2274	Ductile Iron	200	91.98	
5618	PSf4-5338	JSf4-2274	JSf4-2175	Ductile Iron	200	66.28	
5629	PSf4-5349	JSf4-2175	JSf4-2278	Ductile Iron	200	57.21	
5636	PSf4-5360	JSf4-2273	JSf4-2282	Ductile Iron	200	101.64	
5638	PSf4-5363	JSf4-2278	JSf4-2283	Ductile Iron	200	71.06	
5639	PSf4-5364	JSf4-2283	JSf4-32	Ductile Iron	200	82.92	
5649	PSf4-5374	JSf4-2282	JSf4-2287	Ductile Iron	200	96.55	
5650	PSf4-5375	JSf4-2287	JSf4-37	Ductile Iron	200	95.68	
5658	PSf4-5383	JSf4-36	JSf4-2290	Ductile Iron	200	96.69	
5659	PSf4-5384	JSf4-2290	JSf4-2257	Ductile Iron	200	112.33	
5665	PSf4-5390	JSf4-2292	JSf4-33	Ductile Iron	200	128.52	
5668	PSf4-5399	JSf4-2169	JSf4-2296	Ductile Iron	200	124.73	
5669	PSf4-5400	JSf4-2296	JSf4-2294	Ductile Iron	200	136.38	
5682	PSf4-5424	JSf4-2305	JSf4-33	Ductile Iron	200	95.71	
5693	PSf4-5441	JSf4-2311	JSf4-2305	Ductile Iron	200	98.15	
5709	PSf4-5457	JSf4-387	JSf4-2317	Ductile Iron	200	95.00	
5710	PSf4-5458	JSf4-2317	JSf4-2311	Ductile Iron	200	100.37	
5714	PSf4-5463	JSf4-2163	JSf4-2319	Ductile Iron	200	122.76	
5715	PSf4-5464	JSf4-2319	JSf4-2165	Ductile Iron	200	101.66	
5446	PSf4-5470	JSf4-2294	JSf4-2292	Ductile Iron	200	140.18	
5721	PSf4-5474	JSf4-27	JSf4-2321	Ductile Iron	200	126.75	
5722	PSf4-5475	JSf4-2321	JSf4-2126	Ductile Iron	200	94.80	
5738	PSf4-5495	JSf4-04	JSf4-396	Ductile Iron	200	194.04	
5739	PSf4-5502	JSf4-2328	JSf4-14	Ductile Iron	200	189.70	
5740	PSf4-5504	JSf4-2330	JSf4-2327	Ductile Iron	200	154.56	
5743	PSf4-5510	JSf4-394	JSf4-2333	Ductile Iron	200	108.17	
5744	PSf4-5516	JSf4-16	JM-13	Ductile Iron	200	25.50	
5745	PSf4-5519	JSf4-15	JM-12	Ductile Iron	200	16.40	
5746	PSf4-5522	JSf4-23	JM-10	Ductile Iron	200	25.67	
5748	PSf4-5526	JSf4-15	JSf4-2340	Ductile Iron	200	198.98	
5754	PSf4-5535	JSf4-2340	JSf4-2344	Ductile Iron	200	206.21	
5756	PSf4-5540	JSf4-2346	JSf4-394	Ductile Iron	200	107.22	
5763	PSf4-5550	JSf4-2350	JSf4-15	Ductile Iron	200	193.30	
5766	PSf4-5556	JSf4-2327	JSf4-2352	Ductile Iron	200	160.23	
5767	PSf4-5557	JSf4-2352	JSf4-2328	Ductile Iron	200	163.55	
5775	PSf4-5567	JSf4-14	JSf4-2356	Ductile Iron	200	129.83	
5776	PSf4-5568	JSf4-2356	JSf4-2346	Ductile Iron	200	134.20	
5791	PSf4-5586	JSf4-13	JSf4-2363	Ductile Iron	200	198.89	
5800	PSf4-5604	JSf4-15(JE4)	JSf4-2371	Ductile Iron	200	107.60	
5801	PSf4-5605	JSf4-2371	JSf4-2370	Ductile Iron	200	147.15	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5803	PSf4-5607	JSf4-04	JSf4-2372	Ductile Iron	200	138.50	
5804	PSf4-5608	JSf4-2372	JSf4-2330	Ductile Iron	200	76.00	
5820	PSf4-5628	JSf4-14	JSf4-2380	Ductile Iron	200	87.99	
5821	PSf4-5629	JSf4-2380	JSf4-13	Ductile Iron	200	82.25	
5827	PSf4-5635	JSf4-2363	JSf4-2382	Ductile Iron	200	196.47	
5829	PSf4-5638	JSf4-398	JSf4-2383	Ductile Iron	200	125.00	
5835	PSf4-5646	JSf4-2333	JSf4-2386	Ductile Iron	200	128.77	
5836	PSf4-5647	JSf4-2386	JSf4-15	Ductile Iron	200	128.11	
5846	PSf4-5657	JSf4-16	JSf4-2390	Ductile Iron	200	157.49	
5847	PSf4-5658	JSf4-2390	JSf4-2350	Ductile Iron	200	161.52	
5855	PSf4-5666	JSf4-2344	JSf4-2394	Ductile Iron	200	199.19	
5856	PSf4-5667	JSf4-2394	JSf4-23	Ductile Iron	200	214.61	
5866	PSf4-5678	JSf4-2335	JSf4-2398	Ductile Iron	200	168.49	
5867	PSf4-5679	JSf4-2398	JSf4-16	Ductile Iron	200	172.91	
5869	PSf4-5682	JSf4-2399	JSf4-2400	Ductile Iron	200	204.73	
5870	PSf4-5684	JSf4-2400	JSf4-05	Ductile Iron	200	75.93	
5871	PSf4-5686	JSf4-05	JM-14	Ductile Iron	200	16.79	
5872	PSf4-5687	JSf4-2335	JSf4-05	Ductile Iron	200	217.91	
5875	PSf4-5690	JSf4-396	JSf4-2403	Ductile Iron	200	127.28	
5876	PSf4-5693	JSf4-2370	JSf4-040	Ductile Iron	200	286.48	
5877	PSf4-5694	JSf4-040	JSf4-04	Ductile Iron	200	138.69	
5879	PSf4-5708	JSf4-2383	JSf4-2413	Ductile Iron	200	134.82	
5880	PSf4-5709	JSf4-2413	JSf4-23	Ductile Iron	200	62.29	
5883	PSf4-5717	JSf4-11(JE4-19)	JSf4-2416	Ductile Iron	200	101.63	
5884	PSf4-5718	JSf4-2416	JSf4-2104	Ductile Iron	200	135.88	
5892	PSf4-5736	JSf4-2382	JSf4-398	Ductile Iron	200	241.55	
5907	PSf4-5757	JSf4-22	JM-43	Ductile Iron	200	28.94	
5908	PSf4-5758	JSf4-2428	JSf4-22	Ductile Iron	200	173.36	
5909	PSf4-5759	JSf4-23	JSf4-2428	Ductile Iron	200	144.05	
5915	PSf4-5768	JSf4-2121	JSf4-29	Ductile Iron	200	160.48	
5916	PSf4-5770	JSf4-29	JSf4-2432	Ductile Iron	200	208.30	
5921	PSf4-5780	JSf4-28	JSf4-29	Ductile Iron	200	157.83	
5942	PSf4-5806	JSf4-21	JSf4-2445	Ductile Iron	200	77.87	
5943	PSf4-5807	JSf4-2445	JSf4-2417	Ductile Iron	200	132.18	
5950	PSf4-5815	JSf4-2109	JSf4-2448	Ductile Iron	200	131.74	
5951	PSf4-5816	JSf4-2448	JSf4-21	Ductile Iron	200	122.54	
5959	PSf4-5829	JSf4-2452	JSf4-22	Ductile Iron	200	144.54	
5961	PSf4-5832	JSf4-2418	JSf4-2453	Ductile Iron	200	121.10	
5962	PSf4-5833	JSf4-2453	JSf4-2452	Ductile Iron	200	145.31	
5978	PSf4-5857	JSf4-22	JSf4-2462	Ductile Iron	200	156.53	
5979	PSf4-5862	JSf4-2462	JSf4-2464	Ductile Iron	200	152.12	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5980	PSf4-5863	JSf4-2464	JSf4-2434	Ductile Iron	200	226.31	
5991	PSf4-5880	JSf4-2417	JSf4-2470	Ductile Iron	200	121.27	
5999	PSf4-5892	JSf4-2434	JSf4-2474	Ductile Iron	200	193.72	
6000	PSf4-5893	JSf4-2474	JSf4-2432	Ductile Iron	200	123.65	
6002	PSf4-5895	JSf4-1961	JSf4-2475	Ductile Iron	200	101.71	
6013	PSf4-5912	JSf4-2470	JSf4-2481	Ductile Iron	200	103.48	
6023	PSf4-5924	JSf4-2475	JSf4-2485	Ductile Iron	200	108.68	
6024	PSf4-5925	JSf4-2485	JSf4-13	Ductile Iron	200	177.69	
2720	PSf4-594	JSf4-335	JSf4-08	Ductile Iron	200	642.75	
6039	PSf4-5941	JSf4-2481	JSf4-2491	Ductile Iron	200	98.32	
6040	PSf4-5942	JSf4-2491	JSf4-2418	Ductile Iron	200	102.55	
6050	PSf4-5952	JSf4-12	JSf4-2495	Ductile Iron	200	113.87	
6051	PSf4-5953	JSf4-2495	JB4-2415	Ductile Iron	200	51.24	
6145	PSf4-6054	JSf4-2403	JSf4-2532	Ductile Iron	200	165.23	
6146	PSf4-6055	JSf4-2532	JSf4-2399	Ductile Iron	200	243.98	
3566	PSf4-6754	JSf4-27	JM-40	Ductile Iron	200	39.89	
2765	PSf4-678	JSf4-33	JSf4-32	Ductile Iron	200	338.45	
3697	PSf4-6884	JM-40	JSf4-2589	Ductile Iron	200	22.92	
3698	PSf4-6885	JSf4-2589	JSf4-2147	Ductile Iron	200	198.87	
3637	PSf4-6894	JM-38	JSf4-2036	Ductile Iron	200	16.74	
2770	PSf4-698	JB4-393	JSf4-13	Ductile Iron	200	141.59	21,563.85
2493	PSf4-02	JSf4-25	JM-37	Ductile Iron	200	18.94	
2752	PSf4-04	JSf4-30	JSf4-2500	Ductile Iron	200	133.86	
2442	PSf4-0999	JSf4-020 (JE4)	JSf4-09 (JE4-09)	Ductile Iron	200	122.69	
4562	PSf4-4501	JSf4-1936	JSf4-1937	Ductile Iron	200	112.07	
4565	PSf4-4504	JSf4-09 (JE4-09)	JSf4-1939	Ductile Iron	200	128.81	
4566	PSf4-4505	JSf4-1939	JSf4-1937	Ductile Iron	200	162.82	
4586	PSf4-4533	JSf4-16 (JE4)	JSf4-1954	Ductile Iron	200	121.55	
4587	PSf4-4535	JSf4-1953	JSf4-1955	Ductile Iron	200	127.26	
4588	PSf4-4536	JSf4-1955	JSf4-1954	Ductile Iron	200	156.61	
4590	PSf4-4541	JSf4-11 (JE4-19)	JSf4-12	Ductile Iron	200	200.21	
4592	PSf4-4546	JSf4-1953	JSf4-1959	Ductile Iron	200	296.18	
4593	PSf4-4547	JSf4-1959	JSf4-12	Ductile Iron	200	114.23	
5114	PSf4-4594	JSf4-1936	JSf4-1979	Ductile Iron	200	205.41	
5115	PSf4-4595	JSf4-1979	JSf4-1980	Ductile Iron	200	59.52	
5116	PSf4-4596	JSf4-1980	JSf4-1981	Ductile Iron	200	37.91	
5117	PSf4-4597	JSf4-1981	JSf4-1982	Ductile Iron	200	97.82	
5148	PSf4-4649	JSf4-10 (JE4)	JSf4-2004	Ductile Iron	200	139.30	
5150	PSf4-4651	JSf4-2004	JSf4-2005	Ductile Iron	200	190.10	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5177	PSf4-4691	JSf4-2027	JSf4-2028	Ductile Iron	200	120.69	
5178	PSf4-4693	JSf4-2028	JSf4-2029	Ductile Iron	200	111.09	
5179	PSf4-4699	JSf4-2019	JSf4-2030 (JE4)	Ductile Iron	200	158.32	
5208	PSf4-4741	JSf4-21 (JE4)	JSf4-19	Ductile Iron	200	126.15	
5209	PSf4-4742	JSf4-19	JSf4-2053	Ductile Iron	200	154.55	
5222	PSf4-4757	JSf4-17 (JE4-10)	JSf4-2019	Ductile Iron	200	199.85	
5223	PSf4-4758	JSf4-17 (JE4-10)	JSf4-2059	Ductile Iron	200	150.00	
5224	PSf4-4759	JSf4-2059	JSf4-2026	Ductile Iron	200	98.45	
5228	PSf4-4763	JSf4-2026	JSf4-2061	Ductile Iron	200	64.52	
5229	PSf4-4764	JSf4-2061	JSf4-2027	Ductile Iron	200	66.67	
5245	PSf4-4780	JSf4-2029	JSf4-2068	Ductile Iron	200	168.58	
5246	PSf4-4781	JSf4-2068	JSf4-25	Ductile Iron	200	144.73	
5259	PSf4-4798	JSf4-2053	JSf4-18	Ductile Iron	200	87.01	
5375	PSf4-4970	JSf4-2141	JSf4-2142	Ductile Iron	200	146.96	
5376	PSf4-4972	JSf4-2142	JSf4-30	Ductile Iron	200	141.64	
5382	PSf4-4986	JM-37	JSf4-2148	Ductile Iron	200	47.96	
5383	PSf4-4987	JSf4-2148	JSf4-2141	Ductile Iron	200	107.48	
5438	PSf4-5088	JSf4-2500	JSf4-2186	Ductile Iron	200	107.25	
5439	PSf4-5089	JSf4-2186	JSf4-375	Ductile Iron	200	120.50	
5530	PSf4-5207	JSf4-375	JSf4-2229	Ductile Iron	200	116.58	
5531	PSf4-5208	JSf4-2229	JSf4-34	Ductile Iron	200	108.40	
5736	PSf4-5491	JSf4-2030 (JE4)	JSf4-2325	Ductile Iron	200	107.02	
5737	PSf4-5492	JSf4-2325	JSf4-18	Ductile Iron	200	113.80	
6117	PSf4-6026	JSf4-2005	JSf4-2522	Ductile Iron	200	173.32	
6118	PSf4-6027	JSf4-2522	JSf4-21 (JE4)	Ductile Iron	200	155.61	
6123	PSf4-6032	JSf4-1982	JSf4-2524	Ductile Iron	200	52.55	
6124	PSf4-6033	JSf4-2524	JSf4-1983	Ductile Iron	200	175.86	
3600	PSf4-6816	JSf4-1983	JSf4-10 (JE4)	Ductile Iron	200	95.61	
6434	PSf4-7111	JSf4-16 (JE4)	JSf4-1935 (JE4)	Ductile Iron	200	201.33	KTC Total↓
6435	PSf4-7112	JSf4-1935 (JE4)	JSf4-03 (JE4-14)	Ductile Iron	200	86.42	6,134.19
φ200 Total						27,698.04	
2709	PSf4-567	JM-14	JSf4-339	Ductile Iron	150	437.17	
2710	PSf4-568	JSf4-339	JSf4-333	Ductile Iron	150	488.86	
2731	PSf4-612	JSf4-333	JSf4-06	Ductile Iron	150	409.44	
2732	PSf4-613	JSf4-06	JSf4-07	Ductile Iron	150	486.44	
φ150 Total						1,821.91	
2719	PSf4-593	JSf4-350	JSf4-335	Ductile Iron	100	90.47	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
2721	PSf4-597	JSf4-337	JSf4-50	Ductile Iron	100	518.06	
2722	PSf4-598	JSf4-50	JSf4-350	Ductile Iron	100	217.46	
2723	PSf4-601	JSf4-07	JSf4-337	Ductile Iron	100	322.52	
φ100 Total						1,148.51	
3019	P-1385	JB4-637	JB4-639	PE	80	110.32	
4589	P-4540	JSf4-1955	JB4-1956	PE	80	210.76	
4595	P-4553	JB4-1960	JSf4-1961	PE	80	438.32	
5149	P-4650	JSf4-2004	JB4-1995	PE	80	175.97	
5151	P-4652	JB4-1995	JB4-2006	PE	80	136.10	
5152	P-4654	JB4-2006	JSf4-2005	PE	80	198.99	
5158	P-4660	JB4-2011	JE4-170	PE	80	37.17	
5173	P-4681	JB4-2020	JB4-2021	PE	80	71.18	
5174	P-4683	JB4-2022	JB4-2023	PE	80	77.73	
5175	P-4684	JB4-2023	JB4-2024	PE	80	130.19	
5176	P-4690	JSf4-2026	JB4-2021	PE	80	183.99	
5181	P-4701	JB4-2020	JE4-2031	PE	80	145.61	
5183	P-4703	JB4-2021	JE4-2032	PE	80	133.43	
5184	P-4705	JB4-2022	JE4-2033	PE	80	123.82	
5186	P-4707	JB4-2023	JE4-2034	PE	80	103.33	
5189	P-4709	JB4-2024	JE4-2035	PE	80	79.68	
5193	P-4715	JSf4-2040	JB4-2041	PE	80	110.15	
5194	P-4716	JB4-2041	JB4-2042	PE	80	171.54	
5195	P-4717	JB4-2042	JSf4-2043	PE	80	128.85	
5200	P-4722	JB4-416	JSf4-2047	PE	80	110.06	
5201	P-4729	JE4-2035	JB4-2049	PE	80	103.02	
5202	P-4730	JB4-2049	JSf4-4444	PE	80	92.64	
5203	P-4731	JSf4-2038	JB4-2049	PE	80	167.57	
5204	P-4733	JB4-2050	JSf4-2044	PE	80	88.73	
5205	P-4734	JB4-2049	JB4-2050	PE	80	152.34	
5225	P-4760	JSf4-2019	JB4-2060	PE	80	128.02	
5226	P-4761	JB4-2060	JB4-2020	PE	80	32.96	
5227	P-4762	JSf4-2059	JB4-2060	PE	80	187.91	
5230	P-4765	JB4-2021	JB4-2062	PE	80	67.72	
5231	P-4766	JB4-2062	JB4-2022	PE	80	60.62	
5232	P-4767	JSf4-2061	JB4-2062	PE	80	184.71	
5233	P-4768	JSf4-2027	JB4-2063	PE	80	97.63	
5234	P-4769	JB4-2063	JB4-2022	PE	80	83.10	
5235	P-4770	JSf4-2028	JB4-2064	PE	80	100.50	
5236	P-4771	JB4-2064	JB4-2023	PE	80	92.89	
5237	P-4772	JB4-2063	JB4-2064	PE	80	99.14	
5238	P-4773	JSf4-2029	JB4-2065	PE	80	97.93	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5239	P-4774	JB4-2065	JB4-2024	PE	80	110.11	
5240	P-4775	JB4-2064	JB4-2065	PE	80	119.35	
5241	P-4776	JB4-2065	JB4-2066	PE	80	182.20	
5244	P-4779	JB4-2066	JSf4-2067	PE	80	87.54	
5247	P-4782	JSf4-2068	JB4-2066	PE	80	98.26	
5248	P-4783	JB4-2066	JB4-2069	PE	80	97.79	
5249	P-4784	JB4-2069	JB4-2024	PE	80	196.44	
5250	P-4785	JB4-2069	JSf4-2036	PE	80	40.06	
5254	P-4791	JE4-2031	JB4-2072	PE	80	114.23	
5255	P-4792	JB4-2072	JSf4-2070	PE	80	71.56	
5256	P-4794	JSf4-2070	JB4-2073	PE	80	155.55	
5257	P-4796	JB4-2074	JB4-416	PE	80	109.10	
5258	P-4797	JB4-2073	JB4-2074	PE	80	168.51	
5261	P-4800	JSf4-18	JB4-2076	PE	80	133.95	
5262	P-4801	JB4-415	JB4-2077	PE	80	82.46	
5263	P-4802	JB4-2077	JB4-2074	PE	80	164.42	
5264	P-4803	JB4-2076	JB4-2077	PE	80	150.95	
5265	P-4804	JSf4-2053	JB4-2078	PE	80	126.34	
5266	P-4805	JB4-2078	JB4-415	PE	80	147.11	
5267	P-4806	JB4-2078	JB4-2076	PE	80	98.20	
5268	P-4807	JB4-2076	JB4-2073	PE	80	158.62	
5269	P-4808	JB4-2042	JB4-2079	PE	80	72.44	
5270	P-4809	JB4-2079	JB4-416	PE	80	124.57	
5272	P-4813	JB4-2079	JSf4-2080	PE	80	185.56	
5273	P-4814	JSf4-2045	JB4-2041	PE	80	121.61	
5277	P-4817	JSf4-2081	JB4-2078	PE	80	163.73	
5297	P-4841	JB4-1995	JB4-2091	PE	80	200.57	
5300	P-4849	JB4-2006	JB4-2095	PE	80	54.59	
5303	P-4853	JB4-2095	JB4-2097	PE	80	199.60	
5304	P-4855	JB4-2091	JB4-2097	PE	80	180.56	
5306	P-4859	JB4-2095	JB4-2099	PE	80	179.30	
5307	P-4860	JB4-2099	JSf4-2092	PE	80	143.12	
5308	P-4861	JB4-2097	JB4-2100	PE	80	168.15	
5309	P-4862	JB4-2100	JSf4-2098	PE	80	85.51	
5310	P-4863	JB4-2099	JB4-2100	PE	80	145.26	
5311	P-4865	JB4-2101	JB4-2091	PE	80	104.99	
5312	P-4867	JB4-2101	JB4-2102	PE	80	188.31	
5313	P-4871	JB4-2103	JSf4-2104	PE	80	112.50	
5314	P-4872	JSf4-1994 (JE4)	JB4-2105	PE	80	161.48	
5315	P-4873	JB4-2105	JB4-2101	PE	80	159.76	
5316	P-4874	JB4-2103	JB4-2105	PE	80	160.22	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5319	P-4877	JB4-2103	JSf4-2106 (JE4)	PE	80	180.76	
5320	P-4878	JB4-2091	JB4-2107	PE	80	190.49	
5321	P-4880	JB4-2102	JB4-2107	PE	80	106.63	
5322	P-4881	JB4-2102	JB4-2108	PE	80	86.95	
5323	P-4882	JB4-2108	JB4-2103	PE	80	156.45	
5325	P-4885	JB4-2108	JSf4-2109	PE	80	124.51	
5326	P-4886	JSf4-2004	JB4-2110	PE	80	273.33	
5327	P-4887	JB4-2110	JB4-2101	PE	80	122.61	
5328	P-4888	JSf4-2089 (JE4)	JB4-2110	PE	80	235.72	
5329	P-4889	JB4-2107	JB4-2111	PE	80	174.90	
5332	P-4892	JB4-2111	JSf4-2112	PE	80	194.47	
5336	P-4900	JSf4-2098	JB4-2116	PE	80	97.04	
5335	P-4901	JB4-2115	JB4-415	PE	80	245.78	
5337	P-4902	JB4-2116	JB4-2115	PE	80	102.19	
5338	P-4903	JSf4-2112	JB4-2117	PE	80	153.54	
5339	P-4904	JB4-2117	JB4-2113	PE	80	146.50	
5340	P-4905	JB4-2116	JB4-2117	PE	80	136.98	
5341	P-4906	JSf4-2093	JB4-2118	PE	80	147.38	
5342	P-4908	JB4-2117	JB4-2118	PE	80	170.41	
5344	P-4911	JB4-2118	JSf4-2119	PE	80	194.27	
5345	P-4912	JB4-2118	JB4-2120	PE	80	143.25	
5346	P-4913	JB4-2120	JB4-2114	PE	80	171.77	
5347	P-4914	JB4-2113	JB4-2120	PE	80	214.79	
5349	P-4917	JB4-2120	JSf4-2121	PE	80	190.54	
5353	P-4922	JB4-2115	JB4-2124	PE	80	186.94	
5354	P-4924	JB4-2077	JB4-2124	PE	80	185.38	
5355	P-4925	JB4-2125	JSf4-27	PE	80	116.17	
5356	P-4926	JB4-2074	JB4-2125	PE	80	184.85	
5361	P-4934	JB4-2127	JSf4-2128	PE	80	157.64	
5362	P-4935	JB4-2124	JB4-2129	PE	80	49.98	
5363	P-4936	JB4-2129	JB4-2125	PE	80	112.57	
5364	P-4937	JB4-2113	JB4-2130	PE	80	161.71	
5365	P-4938	JB4-2130	JSf4-2126	PE	80	139.47	
5366	P-4939	JB4-2129	JB4-2130	PE	80	143.13	
5369	P-4955	JB4-2136	JSf4-2131	PE	80	129.46	
5370	P-4956	JB4-2133	JB4-2137	PE	80	166.27	
5371	P-4957	JB4-2137	JSf4-2134	PE	80	103.94	
5373	P-4963	JB4-2139	JB4-2136	PE	80	178.65	
5377	P-4975	JB4-2143	JB4-2139	PE	80	121.70	
5378	P-4976	JSf4-2132	JB4-2144	PE	80	149.28	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5380	P-4982	JSf4-2145	JB4-2146	PE	80	258.06	
5381	P-4985	JB4-2146	JSf4-2147	PE	80	174.16	
5384	P-4988	JB4-2143	JB4-2149	PE	80	104.42	
5385	P-4989	JB4-2149	JSf4-2148	PE	80	114.12	
5386	P-4990	JSf4-2067	JB4-2149	PE	80	114.68	
5387	P-4991	JB4-2139	JB4-2150	PE	80	107.22	
5388	P-4992	JB4-2150	JSf4-2141	PE	80	110.29	
5389	P-4993	JB4-2149	JB4-2150	PE	80	118.41	
5390	P-4994	JB4-2136	JB4-2151	PE	80	94.44	
5391	P-4995	JB4-2151	JSf4-2142	PE	80	100.19	
5392	P-4996	JB4-2150	JB4-2151	PE	80	160.50	
5395	P-4999	JB4-2151	JSf4-2152	PE	80	138.83	
5396	P-5001	JB4-2153	JB4-2133	PE	80	133.45	
5398	P-5002	JB4-2143	JB4-2154	PE	80	103.50	
5399	P-5003	JB4-2154	JB4-2144	PE	80	99.12	
5400	P-5005	JB4-2136	JB4-2155	PE	80	96.48	
5401	P-5007	JB4-2153	JB4-2155	PE	80	174.90	
5403	P-5010	JB4-2155	JSf4-2156	PE	80	121.82	
5404	P-5011	JB4-2144	JB4-2157	PE	80	159.93	
5405	P-5012	JB4-2157	JSf4-2145	PE	80	164.01	
5406	P-5018	JB4-2158	JB4-2159	PE	80	132.38	
5407	P-5021	JB4-2159	JSf4-2160	PE	80	127.71	
5408	P-5022	JB4-2144	JB4-2161	PE	80	104.56	
5409	P-5023	JB4-2161	JB4-2133	PE	80	181.68	
5410	P-5024	JB4-2157	JB4-2162	PE	80	108.64	
5411	P-5026	JB4-2161	JB4-2162	PE	80	154.75	
5413	P-5029	JB4-2162	JSf4-2163	PE	80	167.71	
5414	P-5030	JB4-2162	JB4-2164	PE	80	131.00	
5415	P-5031	JB4-2164	JB4-2158	PE	80	140.01	
5416	P-5032	JB4-2133	JB4-2164	PE	80	206.61	
5418	P-5040	JSf4-2163	JB4-2168	PE	80	263.13	
5420	P-5043	JB4-2168	JSf4-2169	PE	80	149.54	
5421	P-5044	JB4-2146	JB4-2168	PE	80	157.10	
5424	P-5050	JB4-2146	JSf4-2700	PE	80	168.34	
5425	P-5053	JB4-2173	JSf4-33	PE	80	191.75	
5426	P-5054	JB4-2172	JB4-2173	PE	80	146.55	
5427	P-5060	JB4-2172	JSf4-2175	PE	80	149.87	
5428	P-5061	JB4-2155	JB4-2176	PE	80	63.59	
5429	P-5062	JB4-2176	JB4-2137	PE	80	71.45	
5432	P-5065	JB4-2176	JSf4-2177	PE	80	109.36	
5433	P-5067	JB4-2178	JB4-2135	PE	80	65.70	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5434	P-5069	JSf4-375	JB4-2179	PE	80	74.83	
5435	P-5078	JB4-2181	JB4-2182	PE	80	68.07	
5436	P-5086	JB4-2185	JB4-2179	PE	80	124.28	
5437	P-5087	JB4-2180	JB4-2185	PE	80	84.27	
5440	P-5090	JB4-2185	JSf4-2186	PE	80	75.65	
5441	P-5091	JB4-2180	JB4-2187	PE	80	91.46	
5442	P-5092	JB4-2187	JB4-2181	PE	80	73.69	
5443	P-5094	JB4-2188	JB4-2178	PE	80	82.48	
5444	P-5096	JSf4-2152	JB4-2189	PE	80	124.59	
5445	P-5097	JB4-2189	JB4-2185	PE	80	106.99	
5449	P-5098	JSf4-2500	JB4-2189	PE	80	76.49	
5450	P-5099	JSf4-2131	JB4-2190	PE	80	122.30	
5451	P-5100	JB4-2190	JB4-2180	PE	80	105.47	
5452	P-5101	JB4-2189	JB4-2190	PE	80	86.34	
5453	P-5102	JB4-2190	JB4-2191	PE	80	102.17	
5454	P-5103	JSf4-2177	JB4-2192	PE	80	121.81	
5455	P-5104	JB4-2192	JB4-2181	PE	80	106.82	
5456	P-5105	JB4-2191	JB4-2192	PE	80	65.91	
5457	P-5106	JSf4-2134	JB4-2193	PE	80	119.80	
5458	P-5107	JB4-2193	JB4-2182	PE	80	110.43	
5459	P-5108	JB4-2192	JB4-2193	PE	80	66.91	
5464	P-5115	JSf4-2156	JB4-2191	PE	80	117.32	
5465	P-5116	JB4-2191	JB4-2187	PE	80	105.40	
5466	P-5117	JB4-2182	JB4-2196	PE	80	88.29	
5467	P-5118	JB4-2196	JB4-2135	PE	80	101.48	
5472	P-5125	JB4-2137	JB4-2199	PE	80	65.25	
5474	P-5129	JB4-2199	JSf4-2200	PE	80	104.01	
5475	P-5130	JB4-2193	JB4-2201	PE	80	76.05	
5476	P-5132	JSf4-2200	JB4-2201	PE	80	121.27	
5477	P-5133	JB4-2182	JB4-2202	PE	80	72.69	
5478	P-5135	JB4-2201	JB4-2202	PE	80	110.25	
5479	P-5136	JB4-2196	JB4-2203	PE	80	77.00	
5480	P-5138	JB4-2202	JB4-2203	PE	80	100.50	
5481	P-5139	JB4-2135	JB4-2204	PE	80	70.94	
5482	P-5141	JB4-2203	JB4-2204	PE	80	102.54	
5483	P-5142	JB4-2199	JB4-2205	PE	80	64.83	
5484	P-5143	JB4-2205	JB4-2159	PE	80	67.09	
5487	P-5146	JB4-2205	JSf4-2206	PE	80	114.23	
5488	P-5147	JB4-2201	JB4-2207	PE	80	58.46	
5489	P-5149	JSf4-2206	JB4-2207	PE	80	121.60	
5490	P-5150	JB4-2202	JB4-2208	PE	80	58.36	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5491	P-5152	JB4-2207	JB4-2208	PE	80	111.61	
5492	P-5153	JB4-2203	JB4-2209	PE	80	58.32	
5493	P-5155	JB4-2208	JB4-2209	PE	80	106.07	
5494	P-5156	JB4-2204	JB4-2210	PE	80	57.14	
5495	P-5158	JB4-2209	JB4-2210	PE	80	108.49	
5496	P-5159	JB4-2207	JB4-2211	PE	80	66.70	
5497	P-5161	JSf4-2160	JB4-2211	PE	80	123.55	
5498	P-5162	JB4-2208	JB4-2212	PE	80	68.09	
5499	P-5164	JB4-2211	JB4-2212	PE	80	111.22	
5500	P-5165	JB4-2209	JB4-2213	PE	80	67.65	
5501	P-5167	JB4-2212	JB4-2213	PE	80	114.34	
5502	P-5168	JB4-2210	JB4-2214	PE	80	71.03	
5503	P-5170	JB4-2213	JB4-2214	PE	80	114.58	
5504	P-5171	JB4-2159	JB4-2215	PE	80	67.35	
5505	P-5172	JB4-2215	JSf4-2138	PE	80	68.19	
5508	P-5175	JB4-2215	JSf4-2216	PE	80	138.43	
5509	P-5176	JB4-2211	JB4-2217	PE	80	67.93	
5510	P-5177	JB4-2217	JSf4-2194	PE	80	38.89	
5511	P-5178	JSf4-2216	JB4-2217	PE	80	122.69	
5512	P-5179	JB4-2212	JB4-2218	PE	80	66.26	
5513	P-5180	JB4-2218	JSf4-2183	PE	80	50.28	
5514	P-5181	JB4-2217	JB4-2218	PE	80	114.78	
5515	P-5182	JB4-2213	JB4-2219	PE	80	65.72	
5516	P-5183	JB4-2219	JSf4-2197	PE	80	59.40	
5517	P-5184	JB4-2218	JB4-2219	PE	80	120.37	
5518	P-5185	JB4-2214	JB4-2220	PE	80	65.41	
5519	P-5186	JB4-2220	JSf4-36	PE	80	54.54	
5520	P-5187	JB4-2219	JB4-2220	PE	80	121.47	
5524	P-5201	JB4-2187	JB4-2227	PE	80	81.18	
5525	P-5202	JB4-2227	JB4-2188	PE	80	79.48	
5526	P-5203	JB4-2181	JB4-2228	PE	80	85.10	
5527	P-5204	JB4-2228	JB4-2178	PE	80	96.44	
5528	P-5205	JB4-2227	JB4-2228	PE	80	76.22	
5529	P-5206	JB4-2228	JB4-2196	PE	80	65.90	
5532	P-5209	JB4-2179	JB4-2230	PE	80	110.22	
5533	P-5210	JB4-2230	JSf4-2223	PE	80	105.26	
5534	P-5211	JSf4-2229	JB4-2230	PE	80	74.83	
5535	P-5212	JB4-2188	JB4-2231	PE	80	99.22	
5536	P-5213	JB4-2231	JSf4-2224	PE	80	58.05	
5537	P-5221	JB4-2179	JB4-2234	PE	80	95.67	
5538	P-5222	JB4-2234	JB4-2188	PE	80	70.33	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5539	P-5223	JB4-2230	JB4-2235	PE	80	77.79	
5540	P-5224	JB4-2235	JB4-2231	PE	80	83.83	
5541	P-5225	JB4-2234	JB4-2235	PE	80	100.64	
5544	P-5228	JB4-2235	JSf4-2236	PE	80	86.29	
5545	P-5229	JB4-2231	JB4-2237	PE	80	69.59	
5546	P-5231	JB4-2178	JB4-2237	PE	80	84.61	
5549	P-5234	JB4-2237	JSf4-2238	PE	80	51.43	
5557	P-5237	JB4-2135	JSf4-2225	PE	80	127.48	
5558	P-5240	JB4-2204	JSf4-2240	PE	80	116.33	
5553	P-5243	JB4-2214	JSf4-2241	PE	80	95.88	
5556	P-5245	JB4-2220	JSf4-2242	PE	80	86.05	
5559	P-5246	JB4-2210	JSf4-2226	PE	80	107.88	
5560	P-5247	JSf4-2165	JB4-2243	PE	80	60.90	
5561	P-5249	JSf4-2140	JB4-2244	PE	80	61.42	
5562	P-5251	JB4-2243	JB4-2244	PE	80	104.47	
5563	P-5252	JSf4-2138	JB4-2245	PE	80	62.56	
5564	P-5254	JB4-2244	JB4-2245	PE	80	147.39	
5566	P-5257	JB4-2245	JSf4-2246	PE	80	148.65	
5567	P-5258	JB4-2243	JB4-2247	PE	80	64.85	
5568	P-5259	JB4-2247	JB4-2166	PE	80	61.79	
5569	P-5260	JB4-2244	JB4-2248	PE	80	63.76	
5570	P-5262	JB4-2247	JB4-2248	PE	80	112.53	
5571	P-5263	JB4-2245	JB4-2249	PE	80	62.82	
5572	P-5265	JB4-2248	JB4-2249	PE	80	144.99	
5574	P-5268	JB4-2249	JSf4-2250	PE	80	150.75	
5575	P-5269	JB4-2248	JB4-2251	PE	80	60.22	
5576	P-5271	JB4-2166	JB4-2251	PE	80	118.58	
5577	P-5272	JB4-2249	JB4-2252	PE	80	61.45	
5578	P-5274	JB4-2251	JB4-2252	PE	80	143.93	
5580	P-5277	JB4-2252	JSf4-2253	PE	80	148.65	
5581	P-5280	JSf4-2253	JB4-2254	PE	80	124.15	
5582	P-5283	JB4-2254	JB4-2255	PE	80	127.96	
5583	P-5286	JB4-2255	JB4-2256	PE	80	140.19	
5584	P-5289	JB4-2256	JSf4-2257	PE	80	143.41	
5585	P-5290	JSf4-2194	JB4-2258	PE	80	101.91	
5586	P-5291	JB4-2258	JB4-2254	PE	80	111.66	
5587	P-5292	JB4-2166	JB4-2259	PE	80	174.74	
5588	P-5293	JB4-2259	JB4-2170	PE	80	36.73	
5589	P-5294	JB4-2251	JB4-2260	PE	80	65.01	
5590	P-5296	JB4-2259	JB4-2260	PE	80	246.10	
5591	P-5297	JB4-2252	JB4-2261	PE	80	65.25	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5592	P-5299	JB4-2260	JB4-2261	PE	80	141.63	
5594	P-5302	JB4-2261	JSf4-2262	PE	80	152.10	
5595	P-5303	JB4-2254	JB4-2263	PE	80	63.85	
5596	P-5305	JSf4-2262	JB4-2263	PE	80	122.91	
5597	P-5306	JB4-2255	JB4-2264	PE	80	60.27	
5598	P-5308	JB4-2263	JB4-2264	PE	80	129.23	
5599	P-5309	JB4-2256	JB4-2265	PE	80	62.61	
5600	P-5311	JB4-2264	JB4-2265	PE	80	139.91	
5602	P-5314	JB4-2265	JSf4-2266	PE	80	139.98	
5603	P-5315	JB4-2170	JB4-2267	PE	80	85.16	
5604	P-5317	JB4-2260	JB4-2268	PE	80	90.78	
5605	P-5318	JB4-2268	JB4-2173	PE	80	63.93	
5606	P-5319	JB4-2267	JB4-2268	PE	80	190.59	
5607	P-5320	JB4-2261	JB4-2269	PE	80	90.45	
5608	P-5321	JB4-2269	JB4-2172	PE	80	64.09	
5609	P-5322	JB4-2268	JB4-2269	PE	80	145.09	
5610	P-5325	JSf4-2175	JB4-2270	PE	80	123.93	
5611	P-5328	JB4-2270	JB4-2271	PE	80	136.30	
5612	P-5331	JB4-2271	JB4-2272	PE	80	145.74	
5614	P-5334	JB4-2272	JSf4-2273	PE	80	154.95	
5615	P-5335	JSf4-2037	JB4-2154	PE	80	159.50	
5616	P-5336	JSf4-26	JB4-2157	PE	80	154.90	
5619	P-5339	JB4-2269	JSf4-2274	PE	80	148.81	
5620	P-5340	JB4-2263	JB4-2275	PE	80	94.79	
5621	P-5341	JB4-2275	JB4-2270	PE	80	64.22	
5622	P-5342	JSf4-2274	JB4-2275	PE	80	124.71	
5623	P-5343	JB4-2264	JB4-2276	PE	80	94.49	
5624	P-5344	JB4-2276	JB4-2271	PE	80	67.59	
5625	P-5345	JB4-2275	JB4-2276	PE	80	135.88	
5626	P-5346	JB4-2265	JB4-2277	PE	80	89.02	
5627	P-5347	JB4-2277	JB4-2272	PE	80	71.70	
5628	P-5348	JB4-2276	JB4-2277	PE	80	140.85	
5630	P-5351	JB4-2270	JB4-2279	PE	80	60.42	
5631	P-5353	JSf4-2278	JB4-2279	PE	80	121.32	
5632	P-5354	JB4-2271	JB4-2280	PE	80	69.10	
5633	P-5356	JB4-2279	JB4-2280	PE	80	139.09	
5634	P-5357	JB4-2272	JB4-2281	PE	80	86.60	
5635	P-5359	JB4-2280	JB4-2281	PE	80	152.05	
5637	P-5362	JB4-2281	JSf4-2282	PE	80	143.43	
5640	P-5365	JB4-2279	JB4-2284	PE	80	79.84	
5641	P-5366	JB4-2284	JSf4-2195	PE	80	86.57	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5642	P-5367	JSf4-2283	JB4-2284	PE	80	121.72	
5643	P-5368	JB4-2280	JB4-2285	PE	80	77.29	
5644	P-5369	JB4-2285	JSf4-2184	PE	80	96.11	
5645	P-5370	JB4-2284	JB4-2285	PE	80	141.64	
5646	P-5371	JB4-2281	JB4-2286	PE	80	83.98	
5647	P-5372	JB4-2286	JSf4-2198	PE	80	93.23	
5648	P-5373	JB4-2285	JB4-2286	PE	80	153.96	
5651	P-5376	JB4-2286	JSf4-2287	PE	80	158.78	
5652	P-5377	JSf4-2183	JB4-2288	PE	80	103.28	
5653	P-5378	JB4-2288	JB4-2255	PE	80	105.03	
5654	P-5379	JB4-2258	JB4-2288	PE	80	120.83	
5655	P-5380	JSf4-2197	JB4-2289	PE	80	92.13	
5656	P-5381	JB4-2289	JB4-2256	PE	80	109.01	
5657	P-5382	JB4-2288	JB4-2289	PE	80	138.85	
5660	P-5385	JB4-2289	JSf4-2290	PE	80	129.37	
5661	P-5386	JB4-2154	JB4-2291	PE	80	104.82	
5662	P-5387	JB4-2291	JB4-2153	PE	80	86.80	
5663	P-5388	JB4-2161	JB4-2291	PE	80	137.17	
5666	P-5392	JB4-2293	JSf4-387	PE	80	176.56	
5667	P-5397	JB4-2295	JB4-2293	PE	80	138.28	
5670	P-5402	JB4-2297	JB4-2295	PE	80	156.07	
5671	P-5405	JB4-2298	JB4-2297	PE	80	112.26	
5672	P-5408	JB4-2299	JB4-2298	PE	80	141.30	
5673	P-5409	JSf4-2147	JB4-2300	PE	80	92.84	
5674	P-5411	JSf4-2169	JB4-2301	PE	80	105.04	
5675	P-5413	JB4-2300	JB4-2301	PE	80	145.11	
5676	P-5414	JSf4-2296	JB4-2302	PE	80	96.74	
5677	P-5416	JB4-2301	JB4-2302	PE	80	120.87	
5678	P-5417	JSf4-2294	JB4-2303	PE	80	95.13	
5679	P-5419	JB4-2302	JB4-2303	PE	80	140.53	
5680	P-5420	JSf4-2292	JB4-2304	PE	80	95.84	
5681	P-5422	JB4-2303	JB4-2304	PE	80	137.16	
5683	P-5425	JB4-2304	JSf4-2305	PE	80	140.18	
5684	P-5426	JB4-2300	JB4-2306	PE	80	98.67	
5685	P-5428	JB4-2301	JB4-2307	PE	80	99.84	
5686	P-5430	JB4-2306	JB4-2307	PE	80	147.80	
5687	P-5431	JB4-2302	JB4-2308	PE	80	103.44	
5688	P-5433	JB4-2307	JB4-2308	PE	80	116.28	
5689	P-5434	JB4-2303	JB4-2309	PE	80	102.52	
5690	P-5436	JB4-2308	JB4-2309	PE	80	141.66	
5691	P-5437	JB4-2304	JB4-2310	PE	80	99.84	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5692	P-5439	JB4-2309	JB4-2310	PE	80	140.53	
5694	P-5442	JB4-2310	JSf4-2311	PE	80	154.17	
5695	P-5443	JB4-2306	JB4-2312	PE	80	92.88	
5696	P-5444	JB4-2312	JB4-2299	PE	80	93.91	
5697	P-5445	JB4-2307	JB4-2313	PE	80	95.72	
5698	P-5446	JB4-2313	JB4-2298	PE	80	89.81	
5699	P-5447	JB4-2312	JB4-2313	PE	80	146.40	
5700	P-5448	JB4-2308	JB4-2314	PE	80	98.67	
5701	P-5449	JB4-2314	JB4-2297	PE	80	93.71	
5702	P-5450	JB4-2313	JB4-2314	PE	80	116.69	
5703	P-5451	JB4-2309	JB4-2315	PE	80	98.97	
5704	P-5452	JB4-2315	JB4-2295	PE	80	93.03	
5705	P-5453	JB4-2314	JB4-2315	PE	80	145.45	
5706	P-5454	JB4-2310	JB4-2316	PE	80	98.80	
5707	P-5455	JB4-2316	JB4-2293	PE	80	94.95	
5708	P-5456	JB4-2315	JB4-2316	PE	80	138.63	
5711	P-5459	JB4-2316	JSf4-2317	PE	80	165.58	
5712	P-5460	JB4-2173	JB4-2318	PE	80	96.25	
5713	P-5462	JSf4-2292	JB4-2318	PE	80	124.86	
5716	P-5465	JB4-2164	JSf4-2319	PE	80	162.76	
5717	P-5466	JB4-2168	JB4-2320	PE	80	110.08	
5718	P-5467	JB4-2320	JB4-2170	PE	80	87.55	
5719	P-5468	JSf4-2319	JB4-2320	PE	80	296.77	
5720	P-5469	JB4-2320	JSf4-2296	PE	80	153.47	
5447	P-5471	JB4-2267	JSf4-2294	PE	80	136.34	
5448	P-5472	JB4-2267	JB4-2318	PE	80	156.88	
5664	P-5473	JSf4-2126	JB4-2312	PE	80	182.77	
5723	P-5476	JSf4-2321	JB4-2306	PE	80	188.24	
5397	P-5478	JB4-2291	JB4-2139	PE	80	121.25	
5724	P-5479	JB4-2139	JB4-2153	PE	80	100.16	
5725	P-5480	JB4-2158	JB4-2322	PE	80	71.82	
5726	P-5481	JB4-2322	JSf4-2140	PE	80	81.17	
5727	P-5482	JB4-2215	JB4-2322	PE	80	134.40	
5728	P-5483	JB4-2164	JB4-2323	PE	80	74.89	
5729	P-5484	JB4-2323	JSf4-2165	PE	80	80.40	
5730	P-5485	JB4-2322	JB4-2323	PE	80	128.08	
5731	P-5486	JB4-2133	JB4-2324	PE	80	90.52	
5732	P-5487	JB4-2324	JB4-2158	PE	80	77.49	
5733	P-5488	JB4-2324	JB4-2199	PE	80	155.21	
5735	P-5490	JSf4-2325	JB4-2072	PE	80	158.40	
5274	P-5493	JB4-2073	JB4-2042	PE	80	108.60	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5741	P-5505	JSf4-396	JB4-2331	PE	80	193.85	
5742	P-5506	JB4-2331	JB4-397	PE	80	203.92	
5747	P-5524	JSf4-394	JB4-2339	PE	80	200.50	
5749	P-5528	JB4-2339	JB4-2341	PE	80	93.04	
5750	P-5530	JSf4-2333	JB4-2341	PE	80	195.68	
5751	P-5531	JB4-2341	JB4-2342	PE	80	201.58	
5752	P-5532	JB4-2339	JB4-2343	PE	80	194.75	
5753	P-5534	JB4-2343	JB4-2342	PE	80	78.39	
5755	P-5538	JB4-2339	JB4-2345	PE	80	124.13	
5757	P-5541	JB4-2345	JSf4-2346	PE	80	201.29	
5758	P-5542	JSf4-2346	JB4-2347	PE	80	185.73	
5759	P-5544	JB4-2348	JSf4-394	PE	80	188.68	
5760	P-5545	JB4-2347	JB4-2348	PE	80	101.36	
5761	P-5547	JB4-2349	JSf4-2333	PE	80	189.91	
5762	P-5548	JB4-2348	JB4-2349	PE	80	115.67	
5764	P-5554	JB4-397	JB4-2351	PE	80	183.31	
5765	P-5555	JB4-2351	JB4-2348	PE	80	180.03	
5768	P-5559	JSf4-2327	JB4-2353	PE	80	95.93	
5769	P-5560	JB4-2353	JB4-397	PE	80	121.15	
5770	P-5562	JB4-2354	JSf4-2352	PE	80	124.07	
5771	P-5563	JB4-2353	JB4-2354	PE	80	162.82	
5772	P-5564	JB4-2347	JB4-2355	PE	80	134.16	
5773	P-5565	JB4-2355	JSf4-2328	PE	80	123.98	
5774	P-5566	JB4-2354	JB4-2355	PE	80	162.76	
5777	P-5569	JB4-2355	JSf4-2356	PE	80	187.15	
5778	P-5570	JB4-2351	JB4-2357	PE	80	104.20	
5779	P-5571	JB4-2357	JB4-2354	PE	80	84.28	
5780	P-5572	JB4-2347	JB4-2357	PE	80	177.67	
5781	P-5573	JSf4-2330	JB4-2358	PE	80	69.74	
5782	P-5574	JB4-2358	JB4-2331	PE	80	112.15	
5783	P-5575	JB4-2353	JB4-2358	PE	80	171.13	
5784	P-5576	JB4-2332	JB4-2359	PE	80	155.51	
5785	P-5577	JB4-2359	JB4-2349	PE	80	165.56	
5786	P-5579	JB4-397	JB4-2360	PE	80	138.41	
5787	P-5580	JB4-2360	JB4-2332	PE	80	138.59	
5788	P-5582	JB4-2361	JB4-2334	PE	80	147.18	
5789	P-5583	JB4-2360	JB4-2361	PE	80	198.44	
5790	P-5585	JSf4-2356	JB4-2362	PE	80	208.40	
5792	P-5588	JB4-2362	JSf4-2363	PE	80	96.46	
5793	P-5589	JB4-2362	JB4-2345	PE	80	134.61	
5794	P-5591	JB4-1960	JB4-2365	PE	80	166.79	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5795	P-5593	JB4-2364	JB4-2365	PE	80	111.99	
5796	P-5595	JB4-2366	JB4-2367	PE	80	132.86	
5798	P-5597	JB4-2368	JB4-2369	PE	80	162.00	
5797	P-5598	JB4-2367	JB4-2368	PE	80	222.64	
5799	P-5600	JB4-2369	JB4-2366	PE	80	227.08	
5802	P-5606	JB4-2368	JSf4-2371	PE	80	173.33	
5805	P-5609	JB4-2369	JB4-2373	PE	80	108.99	
5806	P-5610	JB4-2373	JSf4-2370	PE	80	71.60	
5807	P-5612	JB4-393	JB4-2374	PE	80	68.90	
5808	P-5613	JB4-2374	JSf4-14	PE	80	135.46	
5809	P-5614	JB4-2364	JB4-2374	PE	80	280.60	
5810	P-5615	JSf4-2328	JB4-2375	PE	80	133.68	
5811	P-5617	JB4-2374	JB4-2375	PE	80	198.20	
5812	P-5618	JSf4-2352	JB4-2376	PE	80	124.98	
5813	P-5620	JB4-2375	JB4-2376	PE	80	165.63	
5814	P-5621	JB4-2376	JB4-2377	PE	80	151.32	
5815	P-5622	JSf4-2372	JB4-2378	PE	80	128.01	
5816	P-5624	JB4-2377	JB4-2378	PE	80	214.47	
5817	P-5625	JB4-2351	JB4-2379	PE	80	96.05	
5818	P-5626	JB4-2379	JB4-2359	PE	80	76.63	
5819	P-5627	JB4-2360	JB4-2379	PE	80	167.30	
5822	P-5630	JB4-2362	JSf4-2380	PE	80	211.13	
5823	P-5631	JSf4-2380	JB4-2374	PE	80	123.77	
5824	P-5632	JB4-2362	JB4-2381	PE	80	183.55	
5825	P-5633	JB4-2381	JB4-2343	PE	80	157.74	
5826	P-5634	JB4-2345	JB4-2381	PE	80	128.45	
5828	P-5637	JB4-2381	JSf4-2382	PE	80	91.80	
5830	P-5640	JB4-2342	JB4-2384	PE	80	92.96	
5831	P-5641	JB4-2384	JSf4-2344	PE	80	96.71	
5832	P-5643	JB4-2341	JB4-2385	PE	80	114.37	
5833	P-5644	JB4-2385	JSf4-2340	PE	80	111.09	
5834	P-5645	JB4-2384	JB4-2385	PE	80	202.47	
5837	P-5648	JB4-2385	JSf4-2386	PE	80	199.28	
5838	P-5649	JB4-2349	JB4-2387	PE	80	138.83	
5839	P-5650	JB4-2387	JSf4-2350	PE	80	148.09	
5840	P-5651	JSf4-2386	JB4-2387	PE	80	191.26	
5841	P-5652	JB4-2332	JB4-2388	PE	80	148.65	
5842	P-5653	JB4-2388	JSf4-16	PE	80	180.84	
5843	P-5654	JB4-2387	JB4-2389	PE	80	161.11	
5844	P-5655	JB4-2389	JB4-2388	PE	80	156.79	
5845	P-5656	JB4-2359	JB4-2389	PE	80	143.05	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5848	P-5659	JB4-2389	JSf4-2390	PE	80	164.06	
5849	P-5660	JB4-2343	JB4-2391	PE	80	97.77	
5850	P-5661	JB4-2391	JSf4-398	PE	80	82.89	
5851	P-5662	JB4-2391	JB4-2392	PE	80	72.68	
5852	P-5663	JSf4-2383	JB4-2393	PE	80	141.17	
5853	P-5664	JB4-2393	JB4-2384	PE	80	142.88	
5854	P-5665	JB4-2392	JB4-2393	PE	80	82.58	
5857	P-5668	JB4-2393	JSf4-2394	PE	80	99.73	
5858	P-5669	JB4-2342	JB4-2392	PE	80	111.30	
5859	P-5670	JB4-2334	JB4-2395	PE	80	150.48	
5860	P-5671	JB4-2395	JSf4-2335	PE	80	244.43	
5861	P-5673	JB4-2334	JB4-2396	PE	80	114.03	
5862	P-5674	JB4-2396	JB4-2332	PE	80	118.46	
5863	P-5675	JB4-2388	JB4-2397	PE	80	139.79	
5864	P-5676	JB4-2397	JB4-2395	PE	80	129.90	
5865	P-5677	JB4-2396	JB4-2397	PE	80	150.68	
5868	P-5680	JB4-2397	JSf4-2398	PE	80	208.66	
5873	P-5688	JB4-2331	JB4-2402	PE	80	114.40	
5874	P-5689	JB4-2402	JB4-2361	PE	80	71.80	
5878	P-5695	JB4-2378	JSf4-040	PE	80	91.68	
5881	P-5711	JB4-2407	JB4-2414	PE	80	109.91	
5885	P-5719	JB4-2407	JSf4-2416	PE	80	205.04	
5886	P-5723	JB4-2409	JB4-2406	PE	80	125.62	
5887	P-5724	JB4-2406	JB4-2412	PE	80	137.74	
5888	P-5729	JB4-2414	JB4-2419	PE	80	130.02	
5889	P-5730	JB4-2419	JB4-2405	PE	80	138.04	
5890	P-5732	JB4-2412	JB4-2420	PE	80	129.73	
5891	P-5733	JB4-2420	JSf4-2418	PE	80	118.11	
5893	P-5737	JSf4-2382	JB4-2421	PE	80	114.36	
5894	P-5739	JB4-2409	JB4-2422	PE	80	125.23	
5895	P-5740	JB4-2422	JSf4-2363	PE	80	143.23	
5896	P-5741	JB4-2414	JB4-2423	PE	80	126.07	
5897	P-5742	JB4-2423	JB4-2415	PE	80	117.49	
5899	P-5743	JB4-2422	JB4-2425	PE	80	101.25	
5898	P-5744	JSf4-13	JB4-2424	PE	80	128.46	
5900	P-5746	JB4-2424	JB4-2425	PE	80	115.53	
5901	P-5747	JB4-2424	JB4-2422	PE	80	153.50	
5902	P-5748	JB4-2422	JB4-2421	PE	80	233.00	
5903	P-5749	JSf4-398	JB4-2426	PE	80	163.18	
5904	P-5751	JB4-2421	JB4-2426	PE	80	140.38	
5905	P-5753	JB4-2427	JSf4-2413	PE	80	166.66	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5906	P-5755	JB4-2427	JSf4-2428	PE	80	119.08	
5910	P-5760	JB4-2426	JB4-2430	PE	80	141.10	
5911	P-5761	JB4-2430	JB4-2427	PE	80	124.97	
5912	P-5762	JSf4-2383	JB4-2430	PE	80	160.86	
5913	P-5764	JB4-2405	JB4-2431	PE	80	131.34	
5914	P-5765	JB4-2431	JSf4-2417	PE	80	132.88	
5917	P-5776	JSf4-20	JB4-2435	PE	80	212.95	
5918	P-5777	JSf4-2417	JB4-2436	PE	80	91.28	
5919	P-5778	JB4-2436	JB4-2435	PE	80	122.26	
5920	P-5779	JSf4-2096	JB4-2436	PE	80	205.54	
5922	P-5781	JB4-2435	JB4-2437	PE	80	139.11	
5924	P-5782	JB4-2437	JB4-2438	PE	80	144.38	
5923	P-5783	JSf4-2119	JB4-2437	PE	80	198.29	
5925	P-5784	JB4-2438	JSf4-2432	PE	80	101.09	
5926	P-5785	JSf4-2121	JB4-2438	PE	80	202.40	
5927	P-5788	JB4-2439	JSf4-2434	PE	80	125.22	
5928	P-5790	JSf4-2418	JB4-2440	PE	80	119.93	
5929	P-5791	JB4-2440	JB4-2439	PE	80	119.72	
5930	P-5793	JB4-2097	JB4-2441	PE	80	276.08	
5931	P-5794	JB4-2441	JSf4-2096	PE	80	131.63	
5932	P-5795	JSf4-2093	JB4-2441	PE	80	149.22	
5933	P-5796	JB4-2107	JB4-2442	PE	80	95.13	
5934	P-5797	JB4-2442	JSf4-21	PE	80	106.16	
5935	P-5798	JB4-2441	JB4-2442	PE	80	180.60	
5936	P-5799	JSf4-2104	JB4-2443	PE	80	153.31	
5937	P-5801	JB4-2443	JB4-2419	PE	80	119.09	
5938	P-5802	JB4-2407	JB4-2443	PE	80	127.01	
5939	P-5803	JSf4-2109	JB4-2444	PE	80	116.81	
5940	P-5804	JB4-2444	JB4-2405	PE	80	98.40	
5941	P-5805	JB4-2443	JB4-2444	PE	80	145.96	
5944	P-5809	JSf4-12	JB4-2446	PE	80	95.88	
5945	P-5810	JB4-2446	JB4-2407	PE	80	98.17	
5946	P-5811	JB4-2423	JB4-2446	PE	80	136.64	
5947	P-5812	JB4-2444	JB4-2447	PE	80	123.70	
5948	P-5813	JB4-2447	JSf4-2445	PE	80	125.49	
5949	P-5814	JB4-2431	JB4-2447	PE	80	103.64	
5952	P-5817	JB4-2447	JSf4-2448	PE	80	95.19	
5953	P-5818	JSf4-2448	JB4-2102	PE	80	159.95	
5954	P-5819	JB4-2426	JB4-2449	PE	80	81.80	
5955	P-5821	JB4-2421	JB4-2449	PE	80	118.40	
5956	P-5822	JB4-2430	JB4-2450	PE	80	162.49	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5957	P-5824	JB4-2449	JB4-2450	PE	80	122.55	
5958	P-5827	JB4-2450	JB4-2451	PE	80	118.30	
5960	P-5830	JB4-2451	JSf4-2452	PE	80	158.03	
5963	P-5835	JB4-2420	JB4-2454	PE	80	117.47	
5964	P-5836	JB4-2454	JB4-2451	PE	80	120.99	
5965	P-5837	JSf4-2453	JB4-2454	PE	80	137.54	
5966	P-5838	JB4-2450	JB4-2455	PE	80	109.12	
5967	P-5839	JB4-2455	JB4-2412	PE	80	110.84	
5968	P-5840	JB4-2454	JB4-2455	PE	80	120.38	
5969	P-5841	JB4-2449	JB4-2456	PE	80	101.33	
5970	P-5842	JB4-2456	JB4-2406	PE	80	101.35	
5971	P-5843	JB4-2455	JB4-2456	PE	80	133.28	
5972	P-5844	JB4-2421	JB4-2457	PE	80	106.97	
5973	P-5845	JB4-2457	JB4-2409	PE	80	91.71	
5974	P-5846	JB4-2456	JB4-2457	PE	80	122.89	
5975	P-5847	JB4-2451	JB4-2458	PE	80	100.39	
5976	P-5848	JB4-2458	JB4-2427	PE	80	130.60	
5977	P-5849	JSf4-22	JB4-2458	PE	80	192.59	
5981	P-5866	JB4-2465	JB4-2423	PE	80	113.09	
5982	P-5867	JSf4-1961	JB4-2465	PE	80	144.58	
5983	P-5868	JB4-2414	JB4-2466	PE	80	123.10	
5984	P-5870	JB4-2465	JB4-2466	PE	80	127.16	
5985	P-5871	JB4-2419	JB4-2467	PE	80	121.37	
5986	P-5873	JB4-2466	JB4-2467	PE	80	129.65	
5987	P-5874	JB4-2405	JB4-2468	PE	80	131.09	
5988	P-5876	JB4-2467	JB4-2468	PE	80	136.26	
5989	P-5878	JB4-2469	JB4-2431	PE	80	130.54	
5990	P-5879	JB4-2468	JB4-2469	PE	80	128.95	
5992	P-5882	JB4-2469	JSf4-2470	PE	80	128.66	
5993	P-5883	JB4-2435	JB4-2471	PE	80	105.80	
5994	P-5885	JSf4-2470	JB4-2471	PE	80	185.52	
5995	P-5886	JB4-2437	JB4-2472	PE	80	107.05	
5996	P-5888	JB4-2471	JB4-2472	PE	80	133.16	
5997	P-5889	JB4-2438	JB4-2473	PE	80	109.85	
5998	P-5891	JB4-2472	JB4-2473	PE	80	136.26	
6001	P-5894	JB4-2473	JSf4-2474	PE	80	60.56	
6003	P-5898	JB4-2476	JB4-2465	PE	80	107.71	
6004	P-5899	JSf4-2475	JB4-2476	PE	80	182.66	
6005	P-5900	JB4-2466	JB4-2477	PE	80	103.51	
6006	P-5902	JB4-2476	JB4-2477	PE	80	127.79	
6007	P-5903	JB4-2467	JB4-2478	PE	80	104.13	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6008	P-5905	JB4-2477	JB4-2478	PE	80	126.49	
6009	P-5906	JB4-2468	JB4-2479	PE	80	105.63	
6010	P-5908	JB4-2478	JB4-2479	PE	80	135.95	
6011	P-5910	JB4-2480	JB4-2469	PE	80	107.80	
6012	P-5911	JB4-2479	JB4-2480	PE	80	130.01	
6014	P-5914	JB4-2480	JSf4-2481	PE	80	131.59	
6015	P-5915	JB4-2471	JB4-2482	PE	80	95.44	
6016	P-5917	JSf4-2481	JB4-2482	PE	80	159.42	
6017	P-5918	JB4-2472	JB4-2483	PE	80	94.86	
6018	P-5919	JB4-2483	JB4-2439	PE	80	119.98	
6019	P-5920	JB4-2482	JB4-2483	PE	80	125.17	
6020	P-5921	JB4-2473	JB4-2484	PE	80	96.39	
6021	P-5922	JB4-2484	JSf4-2434	PE	80	88.70	
6022	P-5923	JB4-2483	JB4-2484	PE	80	125.73	
6025	P-5926	JB4-2425	JB4-2486	PE	80	92.76	
6026	P-5927	JB4-2486	JB4-2476	PE	80	94.53	
6027	P-5929	JB4-2477	JB4-2487	PE	80	103.17	
6028	P-5930	JB4-2487	JB4-2409	PE	80	180.86	
6029	P-5931	JB4-2486	JB4-2487	PE	80	127.44	
6030	P-5932	JB4-2478	JB4-2488	PE	80	105.61	
6031	P-5933	JB4-2488	JB4-2406	PE	80	179.38	
6032	P-5934	JB4-2487	JB4-2488	PE	80	126.66	
6033	P-5935	JB4-2479	JB4-2489	PE	80	109.22	
6034	P-5936	JB4-2489	JB4-2412	PE	80	164.77	
6035	P-5937	JB4-2488	JB4-2489	PE	80	137.67	
6036	P-5938	JB4-2420	JB4-2490	PE	80	134.76	
6037	P-5939	JB4-2490	JB4-2480	PE	80	111.67	
6038	P-5940	JB4-2489	JB4-2490	PE	80	130.70	
6041	P-5943	JB4-2490	JSf4-2491	PE	80	126.13	
6042	P-5944	JB4-2482	JB4-2492	PE	80	62.67	
6043	P-5945	JB4-2492	JB4-2440	PE	80	100.36	
6044	P-5946	JSf4-2491	JB4-2492	PE	80	139.81	
6045	P-5947	JSf4-2485	JB4-2493	PE	80	105.27	
6046	P-5948	JB4-2493	JB4-2486	PE	80	114.09	
6047	P-5949	JB4-2424	JB4-2493	PE	80	105.57	
6048	P-5950	JB4-1960	JB4-2415	PE	80	455.64	
6049	P-5951	JSf4-1953	JB4-2494	PE	80	105.90	
6052	P-5954	JB4-2494	JB4-2496	PE	80	302.08	
6053	P-5955	JB4-2496	JSf4-2495	PE	80	113.49	
6054	P-5956	JSf4-1959	JB4-2496	PE	80	109.31	
6055	P-5957	JB4-1956	JB4-2497	PE	80	73.70	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6056	P-5958	JB4-2497	JB4-1960	PE	80	49.15	
6057	P-5959	JB4-2494	JB4-2497	PE	80	178.91	
6074	P-5978	JB4-2504	JB4-2368	PE	80	122.87	
6075	P-5979	JB4-2497	JB4-2504	PE	80	377.59	
6076	P-5980	JB4-2366	JB4-2364	PE	80	184.69	
6086	P-5992	JB4-2510	JB4-2504	PE	80	72.11	
6091	P-5997	JB4-2367	JB4-1960	PE	80	162.86	
6092	P-5998	JB4-2365	JB4-2512	PE	80	63.66	
6093	P-5999	JB4-2512	JB4-393	PE	80	200.71	
6094	P-6000	JSf4-2475	JB4-2512	PE	80	263.67	
6119	P-6028	JB4-2099	JB4-2523	PE	80	94.71	
6120	P-6029	JB4-2523	JSf4-2522	PE	80	190.88	
6121	P-6030	JB4-2006	JB4-2523	PE	80	193.10	
6122	P-6031	JB4-2523	JSf4-391 (JE4)	PE	80	194.08	
6131	P-6040	JSf4-1954	JB4-2527	PE	80	132.59	
6132	P-6041	JB4-2527	JB4-1956	PE	80	132.98	
6133	P-6042	JB4-2510	JB4-2527	PE	80	225.28	
6134	P-6043	JB4-2375	JB4-2528	PE	80	91.95	
6135	P-6044	JB4-2528	JB4-2364	PE	80	125.53	
6136	P-6045	JB4-2376	JB4-2529	PE	80	93.61	
6137	P-6046	JB4-2529	JB4-2366	PE	80	163.04	
6138	P-6047	JB4-2528	JB4-2529	PE	80	174.09	
6139	P-6048	JB4-2369	JB4-2530	PE	80	154.54	
6140	P-6049	JB4-2530	JSf4-2327	PE	80	254.20	
6141	P-6050	JB4-2529	JB4-2530	PE	80	170.98	
6142	P-6051	JB4-2378	JB4-2531	PE	80	122.71	
6143	P-6052	JB4-2531	JB4-2373	PE	80	154.63	
6144	P-6053	JB4-2530	JB4-2531	PE	80	167.77	
6147	P-6057	JB4-2402	JB4-2533	PE	80	125.16	
6148	P-6058	JB4-2533	JSf4-2403	PE	80	95.89	
6149	P-6059	JB4-2334	JB4-2534	PE	80	149.14	
6150	P-6060	JB4-2534	JSf4-2532	PE	80	135.31	
6151	P-6061	JB4-2533	JB4-2534	PE	80	163.79	
6152	P-6062	JB4-2395	JB4-2535	PE	80	141.78	
6153	P-6063	JB4-2535	JSf4-2399	PE	80	128.60	
6154	P-6064	JB4-2534	JB4-2535	PE	80	183.01	
6155	P-6065	JSf4-2335	JB4-2536	PE	80	90.41	
6156	P-6066	JB4-2536	JSf4-2400	PE	80	119.73	
6157	P-6067	JB4-2535	JB4-2536	PE	80	225.03	
3514	P-6684	JSf4-2453	JB4-2553	PE	80	93.28	
3515	P-6686	JB4-2553	JSf4-2464	PE	80	125.98	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
3516	P-6687	JB4-2440	JB4-2553	PE	80	144.95	
3517	P-6688	JSf4-2452	JB4-2554	PE	80	61.36	
3518	P-6689	JB4-2554	JSf4-2462	PE	80	49.67	
3519	P-6690	JB4-2553	JB4-2554	PE	80	140.83	
3520	P-6691	JB4-2439	JSf4-2464	PE	80	183.48	
5333	PB4-4898	JB4-414	JB4-2115	PE	80	247.77	
5334	PB4-4899	JB4-2115	JB4-2113	PE	80	136.62	
5350	PB4-4918	JB4-2114	JSf4-28	PE	80	52.40	
5357	PB4-4930	JB4-2113	JB4-2127	PE	80	157.99	
5358	PB4-4931	JB4-2127	JB4-2114	PE	80	121.73	
5882	PB4-5715	JB4-2415	JSf4-1961	PE	80	87.94	
2463	PB4-6877	JE4-24	JSf4-2037	PE	80	151.75	
3699	PB4-6886	JSf4-2589	JB4-2300	PE	80	157.24	
2778	PB4-739	JSf4-391 (JE4)	JB4-414	PE	80	43.68	
2779	PB4-741	JB4-414	JB4-415	PE	80	202.24	
3567	P-6755	JB4-2299	JSf4-2128	PE	80	207.76	
2713	P-6878	JE4-2033	JB4-2050	PE	80	104.95	
2714	P-6880	JB4-2072	JB4-2588	PE	80	109.57	
3691	P-6881	JB4-2588	JB4-2050	PE	80	121.43	
3692	P-6882	JE4-2032	JB4-2588	PE	80	110.29	
3693	P-6883	JB4-2588	JSf4-2043	PE	80	83.75	
2726	PSf4-605	JSf4-350	JBm4-122	PE	80	223.44	
Drainage				PE	80	190.00	91,305.19
5072	P-4459	JB4-1920	JB4-1921	PE	80	227.19	
4564	P-4503	JSf4-1936	JB4-1938	PE	80	68.66	
4567	P-4506	JSf4-1939	JB4-1940	PE	80	122.10	
4568	P-4507	JB4-1940	JB4-1941	PE	80	78.30	
4569	P-4508	JB4-1941	JB4-1942	PE	80	67.25	
4570	P-4509	JB4-1942	JB4-1943	PE	80	96.57	
4571	P-4512	JB4-1943	JE4-1944	PE	80	101.80	
4574	P-4515	JB4-1940	JE4-1945	PE	80	181.93	
4575	P-4516	JB4-1940	JB4-1946	PE	80	234.53	
4576	P-4517	JB4-1946	JB4-1947	PE	80	63.83	
4577	P-4518	JB4-1947	JB4-1948	PE	80	55.56	
4578	P-4520	JB4-1941	JB4-1947	PE	80	230.00	
4579	P-4521	JE4-1932	JB4-1942	PE	80	232.29	
4580	P-4522	JB4-1948	JB4-1949	PE	80	79.20	
4581	P-4523	JB4-1938	JB4-1946	PE	80	80.45	
4582	P-4524	JB4-1938	JB4-1949	PE	80	177.74	
4583	P-4529	JB4-1950	JE4-1951	PE	80	111.79	
4594	P-4548	JE4-1958	JSf4-1959	PE	80	202.59	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5090	P-4563	JSf4-1962 (JE4)	JB4-1966	PE	80	88.49	
5091	P-4564	JB4-1966	JB4-1918	PE	80	90.68	
5092	P-4565	JSf4-1965 (JE4)	JB4-1966	PE	80	154.22	
5093	P-4566	JB4-1918	JB41967	PE	80	59.07	
5094	P-4568	JE4-04	JB4-1968	PE	80	180.32	
5095	P-4569	JB4-1968	JB4-1920	PE	80	135.36	
5096	P-4572	JB4-1969	JSf4-1964 (JE4)	PE	80	211.00	
5097	P-4574	JB4-1970	JB4-1968	PE	80	94.98	
5098	P-4575	JB4-1969	JB4-1970	PE	80	65.20	
5099	P-4576	JB4-1919	JB4-1971	PE	80	273.10	
5100	P-4579	JB41967	JB4-1972	PE	80	84.50	
5101	P-4580	JB4-1972	JB4-1919	PE	80	48.19	
5102	P-4581	JB4-1970	JB4-1973	PE	80	94.91	
5103	P-4582	JB4-1973	JB4-1971	PE	80	58.19	
5104	P-4583	JB4-1972	JB4-1973	PE	80	264.55	
5105	P-4584	JSf4-1963 (JE4)	JB4-1974	PE	80	205.95	
5106	P-4585	JB4-1974	JB4-1969	PE	80	56.03	
5107	P-4586	JB41967	JB4-1975	PE	80	202.48	
5108	P-4587	JB4-1975	JB4-1970	PE	80	50.73	
5109	P-4588	JB4-1974	JB4-1975	PE	80	60.15	
5110	P-4590	JB4-1976	JSf4-1936	PE	80	101.55	
5111	P-4591	JB4-1976	JB4-1977	PE	80	231.89	
5112	P-4592	JB4-1977	JB4-1978	PE	80	98.48	
5113	P-4593	JB4-1971	JB4-1978	PE	80	120.49	
5118	P-4600	JB4-1978	JSf4-1981	PE	80	125.25	
5119	P-4601	JB4-1971	JB4-1984	PE	80	47.24	
5120	P-4602	JB4-1984	JB4-1920	PE	80	52.24	
5122	P-4603	JB4-1984	JB4-1985	PE	80	89.78	
5121	P-4604	JB4-1977	JSf4-1979	PE	80	133.39	
5123	P-4605	JB4-1985	JSf4-1982	PE	80	179.32	
5124	P-4606	JSf4-1983	JB4-1986	PE	80	146.64	
5125	P-4607	JB4-1986	JB4-1921	PE	80	107.70	
5126	P-4608	JB4-1985	JB4-1986	PE	80	241.55	
5131	P-4620	JB4-1991	JSf4-1989 (JE4)	PE	80	142.98	
5133	P-4622	JB4-1992	JE4-06	PE	80	33.50	
5134	P-4623	JB4-1991	JB4-1992	PE	80	56.08	
5136	P-4626	JSf4-1980	JB4-1993	PE	80	107.83	
5137	P-4637	JSf4-1997 (JE4)	JB4-1998	PE	80	200.91	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
5138	P-4638	JB4-1921	JB4-1999	PE	80	78.96	
5139	P-4639	JB4-1999	JE4-1922	PE	80	155.15	
5140	P-4640	JB4-1998	JB4-1999	PE	80	97.00	
5144	P-4643	JSf4-2000 (JE4)	JB4-2002	PE	80	259.98	
5145	P-4645	JB4-2002	JB4-1998	PE	80	58.72	
5146	P-4646	JSf4-2001 (JE4)	JB4-2002	PE	80	358.73	
5153	P-4655	JSf4-2005	JB4-2007	PE	80	133.11	
5154	P-4656	JB4-2007	JB4-2008	PE	80	100.33	
5155	P-4657	JB4-2008	JB4-2009	PE	80	154.39	
5156	P-4658	JB4-2009	JB4-2010	PE	80	216.02	
5159	P-4661	JB4-2010	JB4-2011	PE	80	44.28	
5165	P-4669	JSf4-2013 (JE4)	JE4-2014	PE	80	148.14	
5167	P-4672	JSf4-2015 (JE4)	JB4-2016	PE	80	248.49	
5169	P-4675	JB4-2016	JE4-2017	PE	80	119.75	
5172	P-4679	JE4-2018	JSf4-2019	PE	80	61.40	
5214	P-4749	JB4-2008	JE4-2056	PE	80	195.68	
5215	P-4750	JE4-2056	JE4-2017	PE	80	136.23	
5216	P-4751	JSf4-1997 (JE4)	JB4-2009	PE	80	94.13	
5219	P-4754	JB4-2016	JB4-2058	PE	80	158.33	
5220	P-4755	JB4-2058	JE4-2018	PE	80	114.27	
5221	P-4756	JSf4-2057 (JE4)	JB4-2058	PE	80	217.51	
5252	P-4789	JE4-2051	JB4-2071	PE	80	106.75	
5253	P-4790	JB4-2071	JSf4-2053	PE	80	126.29	
5278	P-4818	JB4-1948	JB4-2082	PE	80	86.25	
5279	P-4819	JB4-2082	JB4-1942	PE	80	151.43	
5280	P-4820	JB4-1943	JB4-2083	PE	80	152.50	
5281	P-4821	JB4-2083	JB4-1950	PE	80	176.45	
5282	P-4822	JB4-2082	JB4-2083	PE	80	154.41	
5283	P-4823	JB4-2083	JE4-1952	PE	80	101.45	
5284	P-4824	JB4-1993	JB4-2084	PE	80	115.34	
5285	P-4826	JB4-1949	JB4-2084	PE	80	200.83	
5286	P-4827	JB4-1949	JB4-2085	PE	80	142.32	
5287	P-4828	JB4-2085	JB4-1950	PE	80	77.95	
5288	P-4829	JB4-2085	JB4-2086	PE	80	135.41	
5289	P-4830	JB4-2084	JB4-2087	PE	80	93.85	
5290	P-4831	JB4-2087	JSf4-1994 (JE4)	PE	80	218.90	
5291	P-4832	JB4-2086	JB4-2087	PE	80	86.33	
5294	P-4836	JB4-2084	JSf4-2089	PE	80	285.59	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
			(JE4)				
5734	P-5489	JB4-2071	JSf4-2325	PE	80	114.78	
6062	P-5965	JE4-18	JB4-2500	PE	80	83.95	
6063	P-5966	JB4-2500	JSf4-16 (JE4)	PE	80	130.19	
6065	P-5968	JSf4-1954	JB4-2501	PE	80	132.87	
6066	P-5969	JB4-2501	JE4-2498	PE	80	90.81	
6067	P-5970	JB4-2500	JB4-2501	PE	80	121.97	
6068	P-5971	JE4-1944	JB4-2502	PE	80	104.01	
6069	P-5972	JB4-2502	JSf4-1955	PE	80	119.98	
6070	P-5973	JB4-2501	JB4-2502	PE	80	145.36	
6071	P-5974	JE4-1952	JB4-2503	PE	80	110.59	
6072	P-5975	JB4-2503	JSf4-1953	PE	80	106.32	
6073	P-5976	JB4-2502	JB4-2503	PE	80	137.38	
6079	P-5984	JB4-2506	JSf4-2505 (JE4)	PE	80	71.71	
6080	P-5985	JB4-2506	JB4-2507	PE	80	158.60	
6081	P-5986	JB4-2507	JB4-2508	PE	80	49.43	
6082	P-5987	JB4-2508	JSf4-1935 (JE4)	PE	80	174.72	
6084	P-5990	JB4-2507	JSf4-2509 (JE4)	PE	80	92.03	
6085	P-5991	JSf4-16 (JE4)	JB4-2510	PE	80	185.39	
6087	P-5993	JB4-2508	JB4-2510	PE	80	208.98	
6090	P-5996	JSf4-2511 (JE4)	JB4-2508	PE	80	192.74	
6095	P-6001	JB4-1919	JB4-2513	PE	80	44.76	
6096	P-6002	JB4-2513	JB4-1976	PE	80	120.10	
6097	P-6003	JB4-2513	JB4-2514	PE	80	202.48	
6098	P-6004	JB4-2514	JE4-1928	PE	80	145.24	
6099	P-6005	JE4-1917	JB4-2515	PE	80	119.76	
6100	P-6006	JB4-2515	JB4-1918	PE	80	182.30	
6101	P-6007	JB4-2514	JB4-2516	PE	80	124.40	
6102	P-6008	JB4-2516	JB4-2515	PE	80	104.24	
6103	P-6009	JB4-1972	JB4-2516	PE	80	248.28	
6106	P-6012	JB4-2515	JSf4-2517 (JE4)	PE	80	151.58	
6107	P-6013	JB4-1986	JB4-2518	PE	80	101.93	
6108	P-6016	JB4-2518	JSf4-2519 (JE4)	PE	80	69.61	
6109	P-6017	JB4-1998	JB4-2518	PE	80	175.23	
6110	P-6018	JSf4-2519 (JE4)	JB4-2007	PE	80	229.44	
6113	P-6021	JB4-2008	JSf4-2520 (JE4)	PE	80	162.54	

Q4 Block Sub-Main and Branch Distribution Pipelines (F/S : Central Zone)

ID	Label	Start Node	Stop Node	Material	Diameter (mm)	Length(m)	Recital
6114	P-6022	JB4-2007	JB4-2521	PE	80	120.16	
6115	P-6023	JB4-2521	JE4-2055	PE	80	124.07	
6116	P-6025	JSf4-2522	JB4-2521	PE	80	134.33	
6127	P-6036	JSf4-2524	JB4-2525	PE	80	167.87	
6128	P-6037	JB4-2086	JB4-2526	PE	80	111.15	
6129	P-6038	JB4-2526	JE4-2090	PE	80	126.00	
6130	P-6039	JSf4-2106 (JE4)	JB4-2526	PE	80	174.47	
3513	P-6683	JSf4-1990 (JE4)	JB4-1991	PE	80	130.55	
5071	PB4-4455	JSf4-1916 (JE4)	JE4-1917	PE	80	133.31	
5077	PB4-4469	JSf4-1923 (JE4)	JE4-1924	PE	80	131.75	
5080	PB4-4474	JSf4-1925 (JE4)	JE4-1926	PE	80	138.95	
5085	PB4-4479	JSf4-1927 (JE4)	JE4-1928	PE	80	118.10	
4551	PB4-4485	JSf4-1929 (JE4)	JE4-1930	PE	80	137.64	
4554	PB4-4490	JSf4-1931 (JE4)	JE4-1932	PE	80	111.25	
4559	PB4-4495	JSf4-1933 (JE4)	JE4-1934	PE	80	163.06	
4563	PB4-4500	JSf4-1937	JB4-1938	PE	80	147.78	
5132	PB4-4621	JE4-04	JB4-1992	PE	80	108.03	
5135	PB4-4624	JB4-1938	JB4-1993	PE	80	212.91	
5157	PB4-4659	JSf4-1400 (JE4)	JB4-2011	PE	80	105.60	
5162	PB4-4664	JSf4-2012 (JE4)	JB4-2010	PE	80	110.37	
5210	PB4-4743	JE4-2052	JSf4-19	PE	80	248.35	
6064	PB4-5967	JSf4-2499 (JE4)	JB4-2500	PE	80	217.39	
6078	PB4-5983	JSf4-1935 (JE4)	JB4-2506	PE	80	58.96	
6125	PB4-6034	JB4-1993	JB4-2525	PE	80	226.10	
6126	PB4-6035	JB4-2525	JSf44-150 (JE4)	PE	80	121.22	KTC Total↓
Drainage				PE	80	40.00	21,002.42
φ80 Total						112,307.61	

DSD 4

Existing Distribution Junctions

DSD 4 Existing Distribution Junctions (F/S : Central Zone)

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
102	JE1-01	15.6	0.0	50.8	2.7	3.8
103	JE1-02	15.3	0.0	50.8	2.6	3.8
121	JE1-0211	15.4	0.0	49.5	2.3	3.8
510	JE1-04	15.1	0.0	49.0	2.0	3.8
125	JE1-05	15.2	0.0	49.0	2.0	3.8
146	JE1-07'	16.2	0.0	49.3	2.1	3.7
138	JE1-08	15.6	0.0	49.3	2.2	3.8
190	JE1-09	15.6	0.0	49.3	2.2	3.8
142	JE1-10	15.7	0.0	49.3	2.2	3.8
135	JE1-11	17.0	0.0	49.3	2.0	3.6
184	JE1-12	17.2	0.0	49.3	2.0	3.6
711	JE1-12597	15.1	0.0	49.0	2.0	3.8
139	JE1-13	15.2	0.0	49.0	2.0	3.8
511	JE1-14	15.2	0.0	49.0	2.0	3.8
512	JE1-15	15.4	0.0	49.0	2.0	3.8
147	JE1-16	15.1	0.0	49.0	2.0	3.8
183	JE1-21"	15.6	3.0	50.8	2.7	3.8
151	JE1-22	17.5	0.0	49.3	2.0	3.6
153	JE1-23	16.2	0.0	49.1	2.0	3.7
2369	JE1-2869	14.8	0.0	48.8	1.9	3.8
124	JE1-29	15.3	0.0	49.0	2.0	3.8
359	JE1-432	15.4	0.0	49.4	2.3	3.8
368	JE1-442	15.4	0.0	49.5	2.4	3.8
370	JE1-444	15.5	0.0	49.3	2.2	3.8
375	JE1-449	15.5	0.0	49.2	2.1	3.8
328	JE1-473	15.5	0.0	49.3	2.2	3.8
344	JE1-490	15.7	0.0	49.3	2.2	3.8
356	JE1-502	15.5	0.0	49.1	2.0	3.8
397	JE1-507	15.4	0.0	49.2	2.1	3.8
400	JE1-510	15.7	0.0	49.3	2.2	3.8
539	JE1-547	15.4	0.0	49.4	2.2	3.8
578	JE1-586	15.4	0.0	49.6	2.4	3.8
588	JE1-602	15.3	0.0	49.1	2.0	3.8
590	JE1-604	15.3	0.0	49.2	2.1	3.8
595	JE1-608	15.6	0.0	49.3	2.1	3.8
597	JE1-610	15.5	0.0	49.2	2.1	3.8
599	JE1-612	15.4	0.0	49.0	2.0	3.8
600	JE1-613	15.4	0.0	49.0	2.0	3.8
617	JE1-630	15.5	0.0	49.3	2.2	3.8
621	JE1-635	16.0	0.0	49.3	2.1	3.7
630	JE1-663	16.2	0.0	49.3	2.1	3.7
658	JE1-675	16.7	0.0	49.3	2.1	3.7
660	JE1-677	16.2	0.0	49.3	2.1	3.7
668	JE1-686	16.3	0.0	49.3	2.1	3.7
680	JE1-697	16.3	0.0	49.3	2.1	3.7
701	JE1-720	17.3	0.0	49.3	2.0	3.6
703	JE1-722	15.2	0.0	49.0	2.0	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
712	JE1-731	15.2	0.0	49.0	2.0	3.8
722	JE1-741	15.1	0.0	49.0	2.0	3.8
723	JE1-742	15.1	0.0	49.0	2.0	3.8
724	JE1-743	15.2	0.0	48.9	1.9	3.8
727	JE1-746	15.2	0.0	49.0	2.0	3.8
728	JE1-747	15.2	0.0	48.9	2.0	3.8
729	JE1-748	15.1	0.0	49.0	2.0	3.8
730	JE1-749	15.2	0.0	48.9	1.9	3.8
731	JE1-750	15.1	0.0	49.0	2.0	3.8
735	JE1-754	16.4	0.0	49.1	2.0	3.7
779	JE1-770	16.0	0.0	48.8	1.8	3.7
780	JE1-771	15.1	0.0	48.7	1.9	3.8
782	JE1-773	16.2	0.0	48.9	1.9	3.7
783	JE1-774	15.8	0.0	48.9	1.9	3.7
784	JE1-775	16.3	0.0	49.0	1.9	3.7
785	JE1-776	16.0	0.0	49.0	1.9	3.7
786	JE1-777	16.5	0.0	49.2	2.0	3.7
787	JE1-778	15.1	0.0	48.8	1.9	3.8
790	JE1-781	16.4	0.0	49.2	2.0	3.7
794	JE1-785	16.6	0.0	49.3	2.1	3.7
795	JE1-786	17.1	0.0	49.3	2.0	3.6
800	JE1-791	17.0	0.0	49.3	2.0	3.6
801	JE1-792	16.8	0.0	49.3	2.0	3.6
818	JE1-809	17.3	0.0	49.3	2.0	3.6
749	JE1-846	17.1	0.0	49.3	2.0	3.6
750	JE1-847	17.0	0.0	49.3	2.0	3.6
751	JE1-848	17.0	0.0	49.3	2.0	3.6
524	JE1-985	15.3	0.0	49.4	2.3	3.8
106	JE2-01	15.5	0.0	49.3	2.2	3.8
289	JE2-02	15.1	0.0	49.3	2.2	3.8
290	JE2-03	15.5	0.0	49.2	2.1	3.8
176	JE2-04	14.2	0.0	49.2	2.3	3.9
177	JE2-06	14.4	0.0	49.2	2.2	3.9
107	JE2-07	15.0	0.0	49.1	2.1	3.8
156	JE2-08	13.8	0.0	48.9	2.1	3.9
143	JE2-09	13.6	0.0	49.2	2.3	4.0
108	JE2-10	15.5	0.0	48.9	1.9	3.7
912	JE2-1028	15.5	0.0	49.4	2.2	3.8
915	JE2-1032	15.5	0.0	49.3	2.2	3.8
928	JE2-1047	15.5	0.0	49.3	2.2	3.8
932	JE2-1052	14.8	0.0	49.0	2.1	3.8
933	JE2-1053	15.2	0.0	49.0	2.0	3.8
934	JE2-1054	15.0	0.0	49.1	2.1	3.8
945	JE2-1064	14.6	0.0	49.1	2.2	3.9
947	JE2-1066	14.8	0.0	49.1	2.1	3.8
951	JE2-1070	14.0	0.0	49.0	2.1	3.9
953	JE2-1073	14.6	0.0	49.0	2.1	3.8
157	JE2-11	13.6	0.0	48.8	2.1	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
964	JE2-1102	14.0	0.0	48.9	2.0	3.9
965	JE2-1103	14.6	0.0	49.0	2.1	3.8
966	JE2-1104	14.5	0.0	48.9	2.0	3.8
967	JE2-1105	14.7	0.0	48.8	1.9	3.8
968	JE2-1106	14.8	0.0	48.8	1.9	3.8
969	JE2-1107	14.6	0.0	48.8	1.9	3.8
973	JE2-1112	14.2	0.0	48.8	2.0	3.9
974	JE2-1113	14.5	0.0	48.8	1.9	3.8
975	JE2-1114	14.7	0.0	48.8	1.9	3.8
976	JE2-1115	14.4	0.0	48.8	1.9	3.9
981	JE2-1120	13.7	0.0	48.9	2.1	3.9
989	JE2-1128	13.1	0.0	49.3	2.4	4.0
999	JE2-1139	14.4	0.0	48.9	2.0	3.9
1000	JE2-1140	14.4	0.0	48.8	2.0	3.9
1003	JE2-1152	14.3	0.0	49.2	2.2	3.9
1005	JE2-1154	13.9	0.0	49.3	2.3	3.9
110	JE2-13	14.8	0.0	48.8	1.9	3.8
159	JE2-16	13.8	0.0	48.8	2.0	3.9
161	JE2-18	14.1	0.0	48.8	2.0	3.9
162	JE2-19	14.1	0.0	48.8	2.0	3.9
1713	JE2-1907	14.6	0.0	48.8	1.9	3.8
1718	JE2-1912	14.2	0.0	48.8	2.0	3.9
163	JE2-20	14.1	0.0	48.7	1.9	3.9
164	JE2-21	14.2	0.0	48.7	1.9	3.9
165	JE2-22	14.2	0.0	48.7	1.9	3.9
166	JE2-23	14.2	0.0	48.7	1.9	3.9
167	JE2-24	14.2	0.0	48.7	1.9	3.9
2289	JE2-2541	13.6	0.0	48.9	2.1	3.9
2293	JE2-2545	13.9	0.0	48.9	2.1	3.9
893	JE2-2595	14.2	0.0	49.2	2.3	3.9
170	JE2-26	14.3	0.0	48.7	1.9	3.9
171	JE2-27	14.3	0.0	48.7	1.9	3.9
172	JE2-28	14.3	0.0	48.7	1.9	3.9
435	JE2-314	15.5	0.0	49.2	2.1	3.8
193	JE2-32	14.2	0.0	48.7	1.9	3.9
199	JE2-33	14.2	0.0	48.7	1.9	3.9
194	JE2-34	14.2	0.0	48.7	1.9	3.9
200	JE2-35	14.5	0.0	48.8	1.9	3.8
895	JE2-984	15.3	0.0	49.7	2.4	3.8
896	JE2-986	15.4	0.0	49.5	2.4	3.8
898	JE2-988	15.4	0.0	49.4	2.3	3.8
284	JE3-06	15.5	239.0	48.7	1.8	3.7
285	JE3-08	15.4	0.0	48.7	1.8	3.7
514	JE3-09	15.2	0.0	48.7	1.8	3.8
311	JE3-10	15.2	0.0	48.8	1.8	3.8
286	JE3-11	15.1	0.0	48.8	1.9	3.8
1053	JE3-1219	15.1	0.0	48.7	1.8	3.8
1054	JE3-1220	15.1	0.0	48.7	1.8	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1055	JE3-1221	14.8	0.0	48.7	1.8	3.8
1063	JE3-1229	15.3	0.0	48.7	1.8	3.8
525	JE3-1231	15.4	0.0	48.7	1.8	3.7
1066	JE3-1233	15.2	0.0	48.7	1.8	3.8
1075	JE3-1243	15.4	0.0	48.7	1.8	3.7
1076	JE3-1244	15.3	0.0	48.7	1.8	3.8
1077	JE3-1245	15.7	0.0	48.8	1.8	3.7
1100	JE3-1269	15.0	0.0	48.8	1.9	3.8
1107	JE3-1276	15.1	0.0	48.8	1.9	3.8
1109	JE3-1278	15.1	0.0	48.8	1.9	3.8
1135	JE3-1304	15.3	0.0	48.8	1.9	3.8
1136	JE3-1305	15.8	0.0	48.9	1.9	3.7
1174	JE3-1343	15.0	0.0	49.0	2.0	3.8
1177	JE3-1346	15.0	0.0	49.0	2.0	3.8
1182	JE3-1351	15.1	0.0	49.0	2.0	3.8
1415	JE3-1453	15.0	0.0	49.2	2.1	3.8
210	JE4-04	14.8	0.0	48.7	1.8	3.8
140	JE4-06	14.8	0.0	48.7	1.8	3.8
205	JE4-17	14.2	0.0	48.7	1.9	3.9
212	JE4-170	14.9	0.0	48.7	1.8	3.8
207	JE4-18	13.4	0.0	48.7	2.0	3.9
1723	JE4-1917	14.0	0.0	48.7	1.9	3.9
1728	JE4-1922	14.8	0.0	48.7	1.8	3.8
1730	JE4-1924	14.1	0.0	48.7	1.9	3.9
1732	JE4-1926	14.0	0.0	48.7	1.9	3.9
1734	JE4-1928	14.0	0.0	48.7	1.9	3.9
1440	JE4-1930	14.1	0.0	48.7	1.9	3.9
1442	JE4-1932	14.1	0.0	48.7	1.9	3.9
1444	JE4-1934	13.6	0.0	48.7	1.9	3.9
1454	JE4-1944	13.0	0.0	48.7	2.0	4.0
1455	JE4-1945	14.1	0.0	48.7	1.9	3.9
1461	JE4-1951	13.0	0.0	48.8	2.1	4.0
1462	JE4-1952	12.9	0.0	48.7	2.1	4.0
1468	JE4-1958	13.1	0.0	48.8	2.1	4.0
178	JE4-20	14.8	0.0	48.8	1.9	3.8
1781	JE4-2014	14.8	0.0	48.8	1.9	3.8
1784	JE4-2017	14.4	0.0	48.8	2.0	3.9
1785	JE4-2018	14.5	0.0	49.0	2.1	3.9
1796	JE4-2031	14.4	0.0	49.1	2.2	3.9
1797	JE4-2032	14.4	0.0	49.2	2.2	3.9
1798	JE4-2033	14.4	0.0	49.3	2.2	3.9
1799	JE4-2034	14.4	0.0	49.3	2.3	3.9
1800	JE4-2035	14.4	0.0	49.4	2.3	3.9
1815	JE4-2051	14.3	0.0	49.0	2.1	3.9
1816	JE4-2052	14.3	0.0	49.0	2.1	3.9
1819	JE4-2055	14.3	0.0	48.9	2.0	3.9
1820	JE4-2056	14.4	0.0	48.8	1.9	3.9
1853	JE4-2090	13.2	0.0	48.8	2.1	4.0

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
283	JE4-23	14.4	0.0	49.0	2.1	3.9
213	JE4-24	14.4	0.0	49.4	2.4	3.9
2248	JE4-2498	13.4	0.0	48.7	2.0	3.9

DSD 5
Distribution Main Junctions
(F/S: Central Zone)

DSD 5 Distribution Main Junctions (F/S : Central Zone)

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
185	JK-02(JE2)	15.3	0.0	50.8	2.6	3.8
474	JM-01	11.1	0.0	50.8	3.4	4.3
250	JM-02	11.1	0.0	50.7	3.4	4.3
251	JM-03	11.4	0.0	50.5	3.3	4.3
252	JM-04	11.4	0.0	50.3	3.2	4.3
253	JM-05	11.4	0.0	50.2	3.1	4.3
254	JM-06	10.2	0.0	50.1	3.2	4.4
255	JM-07	11.0	0.0	49.9	3.0	4.3
256	JM-08	11.0	0.0	49.9	3.0	4.3
257	JM-09	11.4	0.0	49.7	2.8	4.2
258	JM-10	11.4	0.0	49.7	2.8	4.2
476	JM-11	12.4	0.0	49.6	2.7	4.1
504	JM-12	12.4	0.0	49.6	2.7	4.1
469	JM-13	12.4	0.0	49.6	2.6	4.1
259	JM-14	13.4	0.0	49.5	2.5	4.0
260	JM-15	13.4	0.0	49.5	2.5	4.0
261	JM-16	12.3	0.0	49.5	2.6	4.1
262	JM-17	13.2	0.0	49.5	2.5	4.0
263	JM-18	13.1	0.0	49.4	2.5	4.0
264	JM-19	13.1	0.0	49.4	2.5	4.0
265	JM-20	12.9	0.0	49.4	2.5	4.0
266	JM-21	14.6	0.0	49.4	2.3	3.9
267	JM-22(JE2)	15.4	0.0	49.4	2.2	3.8
297	JM-23(JE1)	15.4	0.0	49.4	2.2	3.8
298	JM-24	15.5	0.0	49.4	2.2	3.8
293	JM-25	15.5	0.0	49.4	2.2	3.8
295	JM-26	15.5	0.0	49.4	2.2	3.8
296	JM-27	15.5	0.0	49.4	2.2	3.8
305	JM-28	16.7	0.0	49.3	2.1	3.7
149	JM-29 (JE1-20)	16.7	0.0	49.3	2.1	3.7
154	JM-30	18.2	0.0	49.3	1.9	3.5
182	JM-31	18.2	0.0	49.3	1.9	3.5
235	JM-32	17.0	0.0	49.3	2.0	3.6
301	JM-33	17.2	0.0	49.3	2.0	3.6
302	JM-34	16.7	0.0	49.4	2.1	3.7
303	JM-35	15.5	0.0	49.4	2.2	3.8
304	JM-36(JE3)	15.1	0.0	49.5	2.3	3.8
271	JM-37	15.1	0.0	49.5	2.3	3.8
866	JM-38	14.6	0.0	49.5	2.4	3.9
270	JM-39	14.2	0.0	49.6	2.5	3.9
489	JM-40	13.9	0.0	49.6	2.5	4.0
269	JM-41	14.1	0.0	49.7	2.5	3.9
281	JM-42	13.3	0.0	49.7	2.6	4.0
268	JM-43	12.3	0.0	49.7	2.7	4.1
479	JM-44	12.7	0.0	49.7	2.7	4.1

DSD 6
Sub-Main and
Branch Distribution Junctions
(F/S: Central Zone)

DSD 6 Sub-Main and Branch Distribution Junctions (F/S : Central Zone)

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
222	JSf1-01(JE1)	15.4	8.0	49.6	2.4	3.8
144	JSf1-02(JE1)	15.1	88.0	49.4	2.3	3.8
387	JSf1-03	15.6	272.0	49.4	2.3	3.8
226	JSf1-031111	15.7	0.0	49.5	2.3	3.8
229	JSf1-04	16.6	89.0	49.5	2.2	3.7
134	JSf1-0499999	16.0	0.0	49.3	2.1	3.7
543	JSf1-05	15.5	136.0	49.4	2.2	3.8
342	JSf1-06	15.5	136.0	49.4	2.2	3.8
230	JSf1-07	16.1	89.0	49.4	2.2	3.7
122	JSf1-08(JE1)	15.5	473.0	49.2	2.1	3.8
343	JSf1-09	15.5	568.0	49.3	2.2	3.8
231	JSf1-10	16.3	182.0	49.3	2.1	3.7
123	JSf1-11(JE1-03)	15.5	385.0	49.0	2.0	3.8
299	JSf1-12(JE1)	15.1	385.0	49.0	2.0	3.8
394	JSf1-13(PE1)	15.5	569.0	49.3	2.2	3.8
292	JSf1-14	15.9	182.0	49.3	2.1	3.7
126	JSf1-15(JE1-06)	15.1	207.0	48.8	1.9	3.8
136	JSf1-16(JE1-17)	15.2	487.0	48.9	1.9	3.8
702	JSf1-17	17.0	93.0	49.3	2.0	3.6
233	JSf1-18	17.6	93.0	49.3	2.0	3.6
127	JSf1-19(JE1-07)	14.8	279.0	48.7	1.9	3.8
791	JSf1-20(JE1)	16.8	124.0	49.3	2.1	3.6
150	JSf1-21(JE1-21)	17.0	124.0	49.3	2.0	3.6
148	JSf1-22(JE1-20)	15.6	1,417.0	48.8	1.9	3.7
294	JSf1-228	15.8	0.0	49.4	2.2	3.7
836	JSf1-23	17.6	249.0	49.3	2.0	3.6
300	JSf1-235	17.5	0.0	49.3	2.0	3.6
781	JSf1-24(JE1)	15.7	930.0	48.7	1.8	3.7
358	JSf1-25	17.0	78.0	49.3	2.0	3.6
152	JSf1-26(JE1-24)	16.7	78.0	49.3	2.1	3.7
747	JSf1-27	17.4	0.0	49.3	2.0	3.6
218	JSf1-27'	17.4	155.0	49.3	2.0	3.6
2365	JSf1-2835	15.3	0.0	49.5	2.3	3.8
2368	JSf1-2868	15.4	0.0	49.0	2.0	3.8
6422	JSf1-300	15.1	0.0	48.7	1.8	3.8
772	JSf1-4000	16.7	0.0	49.5	2.2	3.7
145	JSf1-424	14.8	0.0	49.4	2.4	3.8
319	JSf1-425	15.4	0.0	49.4	2.3	3.8
523	JSf1-431	15.5	0.0	49.4	2.3	3.8
363	JSf1-436	15.4	0.0	49.4	2.3	3.8
393	JSf1-439	15.5	0.0	49.4	2.3	3.8
369	JSf1-443	15.1	0.0	49.5	2.4	3.8
385	JSf1-460	16.0	0.0	49.4	2.2	3.7
386	JSf1-461	16.3	0.0	49.5	2.2	3.7
390	JSf1-465	15.7	0.0	49.5	2.3	3.8
323	JSf1-468	16.0	0.0	49.4	2.2	3.7
326	JSf1-471	15.7	0.0	49.4	2.2	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
329	JSf1-474	15.7	0.0	49.4	2.2	3.8
331	JSf1-477	15.5	0.0	49.4	2.2	3.8
335	JSf1-481	16.1	0.0	49.4	2.2	3.7
337	JSf1-483	16.4	0.0	49.5	2.2	3.7
340	JSf1-486	15.8	0.0	49.4	2.3	3.7
345	JSf1-491	15.5	0.0	49.4	2.2	3.8
351	JSf1-497	15.6	0.0	49.5	2.3	3.8
357	JSf1-503	15.3	0.0	49.3	2.2	3.8
402	JSf1-512	15.8	0.0	49.3	2.2	3.7
406	JSf1-516	15.8	0.0	49.3	2.2	3.7
407	JSf1-517	16.4	0.0	49.4	2.1	3.7
409	JSf1-519	16.5	0.0	49.3	2.1	3.7
410	JSf1-520	15.4	0.0	49.3	2.2	3.8
418	JSf1-528	16.1	0.0	49.3	2.1	3.7
423	JSf1-533	15.5	0.0	49.3	2.2	3.8
533	JSf1-541	15.9	0.0	49.3	2.2	3.7
536	JSf1-544	15.8	0.0	49.4	2.2	3.7
549	JSf1-557	16.5	0.0	49.4	2.2	3.7
551	JSf1-559	16.0	0.0	49.4	2.2	3.7
554	JSf1-562	16.5	0.0	49.3	2.1	3.7
558	JSf1-566	15.6	0.0	49.4	2.2	3.8
561	JSf1-569	15.8	0.0	49.5	2.3	3.7
566	JSf1-574	15.8	0.0	49.4	2.2	3.7
569	JSf1-577	15.9	0.0	49.5	2.3	3.7
574	JSf1-582	15.8	0.0	49.4	2.2	3.7
577	JSf1-585	16.4	0.0	49.4	2.1	3.7
579	JSf1-587	15.4	0.0	49.5	2.4	3.8
586	JSf1-600	15.3	0.0	49.5	2.4	3.8
602	JSf1-615	15.1	0.0	49.0	2.0	3.8
605	JSf1-618	15.1	0.0	49.0	2.0	3.8
611	JSf1-624	15.4	0.0	49.3	2.2	3.8
613	JSf1-626	15.7	0.0	49.3	2.2	3.8
614	JSf1-627	16.1	0.0	49.3	2.1	3.7
615	JSf1-628	16.1	0.0	49.3	2.1	3.7
625	JSf1-641	16.3	0.0	49.3	2.1	3.7
626	JSf1-642	16.2	0.0	49.3	2.1	3.7
632	JSf1-647	16.4	0.0	49.3	2.1	3.7
642	JSf1-657	16.1	0.0	49.3	2.1	3.7
652	JSf1-669	16.5	0.0	49.3	2.1	3.7
654	JSf1-671	16.0	0.0	49.3	2.1	3.7
657	JSf1-674	17.0	0.0	49.3	2.0	3.6
659	JSf1-676	16.1	0.0	49.3	2.1	3.7
665	JSf1-683	16.4	0.0	49.3	2.1	3.7
667	JSf1-685	16.1	0.0	49.3	2.1	3.7
675	JSf1-692	16.4	0.0	49.3	2.1	3.7
679	JSf1-696	16.1	0.0	49.3	2.1	3.7
690	JSf1-709	17.0	0.0	49.3	2.0	3.6
694	JSf1-713	17.5	0.0	49.3	2.0	3.6

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
695	JSf1-714	17.5	0.0	49.3	2.0	3.6
699	JSf1-718	17.3	0.0	49.3	2.0	3.6
710	JSf1-730	15.6	0.0	49.1	2.0	3.7
717	JSf1-736	15.8	0.0	49.1	2.0	3.7
737	JSf1-762	16.6	0.0	49.5	2.2	3.7
776	JSf1-767	16.0	0.0	49.4	2.2	3.7
788	JSf1-779	15.1	0.0	48.7	1.8	3.8
793	JSf1-784	16.3	0.0	49.2	2.0	3.7
803	JSf1-794	16.8	0.0	49.3	2.1	3.6
806	JSf1-797	16.8	0.0	49.3	2.1	3.6
807	JSf1-798	16.8	0.0	49.3	2.0	3.6
816	JSf1-807	16.9	0.0	49.3	2.0	3.6
817	JSf1-808	17.0	0.0	49.3	2.0	3.6
829	JSf1-820	17.4	0.0	49.3	2.0	3.6
834	JSf1-825	17.6	0.0	49.3	2.0	3.6
839	JSf1-830	17.6	0.0	49.3	2.0	3.6
841	JSf1-832	17.6	0.0	49.3	2.0	3.6
844	JSf1-835	17.6	0.0	49.3	2.0	3.6
846	JSf1-837	17.2	0.0	49.3	2.0	3.6
847	JSf1-838	17.3	0.0	49.3	2.0	3.6
848	JSf1-839	17.4	0.0	49.3	2.0	3.6
849	JSf1-840	17.4	0.0	49.3	2.0	3.6
746	JSf1-843	17.4	0.0	49.3	2.0	3.6
755	JSf1-852	16.6	0.0	49.3	2.1	3.7
761	JSf1-858	16.4	0.0	49.3	2.1	3.7
765	JSf1-862	16.3	0.0	49.3	2.1	3.7
854	JSf1-877	16.8	0.0	49.5	2.2	3.6
856	JSf1-879	16.7	0.0	49.6	2.3	3.7
859	JSf1-883	16.0	0.0	49.2	2.0	3.7
864	JSf1-888	16.0	0.0	49.1	2.0	3.7
228	JBf1-4111	16.8	0.0	49.5	2.2	3.6
137	JB1-01	15.7	0.0	49.3	2.2	3.8
133	JB1-02	15.8	0.0	49.3	2.2	3.7
227	JB1-218	16.3	0.0	49.5	2.2	3.7
870	JB1-2593	16.4	0.0	49.3	2.1	3.7
529	JB1-2602	16.7	0.0	49.5	2.2	3.7
2359	JB1-2829	15.3	0.0	49.5	2.3	3.8
2360	JB1-2830	15.4	0.0	49.5	2.3	3.8
2361	JB1-2831	15.4	0.0	49.5	2.4	3.8
2362	JB1-2832	14.9	0.0	49.5	2.4	3.8
2363	JB1-2833	15.8	0.0	49.5	2.3	3.7
2364	JB1-2834	15.8	0.0	49.5	2.3	3.7
2366	JB1-2841	15.5	0.0	49.5	2.3	3.8
2367	JB1-2842	15.6	0.0	49.5	2.3	3.8
2370	JB1-2870	15.2	0.0	48.8	1.9	3.8
2371	JB1-2871	15.6	0.0	49.0	2.0	3.7
2372	JB1-2872	15.4	0.0	49.0	2.0	3.8
520	JB1-428	15.4	0.0	49.4	2.3	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
521	JB1-429	15.4	0.0	49.4	2.3	3.8
522	JB1-430	15.4	0.0	49.4	2.3	3.8
360	JB1-433	15.3	0.0	49.4	2.3	3.8
361	JB1-434	15.3	0.0	49.4	2.3	3.8
362	JB1-435	15.3	0.0	49.4	2.3	3.8
364	JB1-437	15.4	0.0	49.5	2.3	3.8
365	JB1-438	15.4	0.0	49.5	2.3	3.8
366	JB1-440	15.4	0.0	49.4	2.3	3.8
367	JB1-441	15.3	0.0	49.4	2.3	3.8
371	JB1-445	15.3	0.0	49.3	2.2	3.8
372	JB1-446	15.3	0.0	49.3	2.2	3.8
373	JB1-447	15.3	0.0	49.2	2.1	3.8
374	JB1-448	15.4	0.0	49.3	2.2	3.8
376	JB1-450	15.3	0.0	49.2	2.1	3.8
377	JB1-451	15.3	0.0	49.2	2.1	3.8
378	JB1-452	15.3	0.0	49.2	2.1	3.8
379	JB1-453	15.4	0.0	49.2	2.1	3.8
380	JB1-454	15.5	0.0	49.3	2.2	3.8
381	JB1-455	15.3	0.0	49.3	2.2	3.8
382	JB1-456	15.4	0.0	49.2	2.2	3.8
383	JB1-457	15.4	0.0	49.3	2.2	3.8
384	JB1-459	15.7	0.0	49.4	2.2	3.8
388	JB1-463	15.7	0.0	49.4	2.2	3.8
389	JB1-464	15.8	0.0	49.5	2.3	3.7
391	JB1-466	15.6	0.0	49.4	2.3	3.8
392	JB1-467	15.7	0.0	49.4	2.2	3.8
324	JB1-469	15.7	0.0	49.4	2.2	3.8
325	JB1-470	15.7	0.0	49.4	2.2	3.8
327	JB1-472	15.6	0.0	49.3	2.2	3.8
330	JB1-475	15.8	0.0	49.3	2.2	3.7
332	JB1-478	15.7	0.0	49.4	2.2	3.8
333	JB1-479	15.7	0.0	49.4	2.2	3.8
334	JB1-480	16.0	0.0	49.4	2.2	3.7
336	JB1-482	16.5	0.0	49.5	2.2	3.7
338	JB1-484	15.8	0.0	49.4	2.2	3.7
339	JB1-485	16.0	0.0	49.4	2.2	3.7
341	JB1-487	15.8	0.0	49.5	2.3	3.7
346	JB1-492	15.7	0.0	49.4	2.2	3.8
347	JB1-493	16.0	0.0	49.4	2.2	3.7
348	JB1-494	15.8	0.0	49.4	2.2	3.7
349	JB1-495	15.8	0.0	49.4	2.2	3.7
350	JB1-496	15.8	0.0	49.5	2.3	3.7
352	JB1-498	15.6	0.0	49.4	2.3	3.8
353	JB1-499	15.6	0.0	49.4	2.2	3.8
354	JB1-500	15.7	0.0	49.4	2.2	3.8
355	JB1-501	15.8	0.0	49.3	2.2	3.7
395	JB1-505	15.1	0.0	49.1	2.1	3.8
396	JB1-506	15.3	0.0	49.2	2.1	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
398	JB1-508	15.1	0.0	49.1	2.1	3.8
399	JB1-509	15.6	0.0	49.3	2.2	3.8
401	JB1-511	15.8	0.0	49.3	2.2	3.7
403	JB1-513	15.8	0.0	49.3	2.2	3.7
404	JB1-514	15.7	0.0	49.3	2.2	3.8
405	JB1-515	15.8	0.0	49.3	2.2	3.7
408	JB1-518	16.5	0.0	49.3	2.1	3.7
411	JB1-521	15.5	0.0	49.3	2.2	3.8
412	JB1-522	15.6	0.0	49.3	2.2	3.8
413	JB1-523	15.6	0.0	49.3	2.2	3.8
414	JB1-524	15.6	0.0	49.3	2.2	3.8
415	JB1-525	15.8	0.0	49.3	2.2	3.7
416	JB1-526	15.8	0.0	49.3	2.2	3.7
417	JB1-527	15.8	0.0	49.3	2.2	3.7
419	JB1-529	15.5	0.0	49.3	2.2	3.8
420	JB1-530	15.6	0.0	49.3	2.2	3.8
421	JB1-531	15.6	0.0	49.3	2.2	3.8
422	JB1-532	15.6	0.0	49.3	2.2	3.8
424	JB1-534	15.5	0.0	49.3	2.2	3.8
426	JB1-536	15.6	0.0	49.3	2.2	3.8
427	JB1-537	15.6	0.0	49.3	2.2	3.8
530	JB1-538	15.7	0.0	49.3	2.2	3.8
531	JB1-539	15.8	0.0	49.3	2.2	3.7
532	JB1-540	15.8	0.0	49.3	2.2	3.7
534	JB1-542	16.7	0.0	49.3	2.1	3.7
535	JB1-543	16.4	0.0	49.3	2.1	3.7
537	JB1-545	15.8	0.0	49.3	2.2	3.7
538	JB1-546	15.3	0.0	49.4	2.2	3.8
540	JB1-548	15.3	0.0	49.4	2.2	3.8
541	JB1-549	15.3	0.0	49.4	2.2	3.8
542	JB1-550	15.3	0.0	49.4	2.2	3.8
544	JB1-552	15.8	0.0	49.4	2.2	3.7
545	JB1-553	15.6	0.0	49.4	2.3	3.8
546	JB1-554	15.4	0.0	49.4	2.3	3.8
547	JB1-555	16.3	0.0	49.4	2.2	3.7
548	JB1-556	16.4	0.0	49.4	2.2	3.7
550	JB1-558	15.8	0.0	49.4	2.2	3.7
552	JB1-560	16.4	0.0	49.4	2.2	3.7
553	JB1-561	16.4	0.0	49.4	2.1	3.7
555	JB1-563	15.6	0.0	49.4	2.2	3.8
556	JB1-564	15.5	0.0	49.4	2.2	3.8
557	JB1-565	15.6	0.0	49.4	2.2	3.8
559	JB1-567	15.6	0.0	49.4	2.2	3.8
560	JB1-568	15.9	0.0	49.5	2.3	3.7
562	JB1-570	15.8	0.0	49.4	2.2	3.7
563	JB1-571	15.8	0.0	49.4	2.2	3.7
564	JB1-572	15.7	0.0	49.4	2.2	3.8
565	JB1-573	15.7	0.0	49.4	2.2	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
567	JB1-575	15.7	0.0	49.4	2.2	3.8
568	JB1-576	15.9	0.0	49.5	2.3	3.7
570	JB1-578	15.8	0.0	49.4	2.2	3.7
571	JB1-579	15.7	0.0	49.4	2.2	3.8
572	JB1-580	16.0	0.0	49.4	2.2	3.7
573	JB1-581	16.0	0.0	49.4	2.2	3.7
575	JB1-583	15.8	0.0	49.4	2.2	3.7
576	JB1-584	15.8	0.0	49.4	2.2	3.7
580	JB1-589	15.7	0.0	49.5	2.3	3.8
581	JB1-591	15.8	0.0	49.5	2.3	3.7
582	JB1-593	15.9	0.0	49.5	2.3	3.7
583	JB1-595	15.9	0.0	49.5	2.3	3.7
584	JB1-597	16.0	0.0	49.5	2.3	3.7
585	JB1-599	16.4	0.0	49.5	2.2	3.7
587	JB1-601	15.1	0.0	49.1	2.1	3.8
589	JB1-603	15.1	0.0	49.2	2.1	3.8
591	JB1-605	15.9	0.0	49.3	2.1	3.7
592	JB1-606	15.7	0.0	49.3	2.1	3.8
594	JB1-607	15.8	0.0	49.3	2.1	3.7
596	JB1-609	15.5	0.0	49.2	2.1	3.8
598	JB1-611	15.3	0.0	49.2	2.1	3.8
601	JB1-614	15.4	0.0	49.0	2.0	3.8
603	JB1-616	15.2	0.0	49.1	2.1	3.8
604	JB1-617	15.2	0.0	49.2	2.1	3.8
606	JB1-619	15.2	0.0	49.1	2.1	3.8
607	JB1-620	15.1	0.0	49.1	2.1	3.8
608	JB1-621	15.1	0.0	49.1	2.1	3.8
609	JB1-622	15.2	0.0	49.2	2.1	3.8
610	JB1-623	15.3	0.0	49.3	2.2	3.8
612	JB1-625	15.5	0.0	49.2	2.1	3.8
616	JB1-629	15.8	0.0	49.2	2.1	3.7
618	JB1-631	16.0	0.0	49.3	2.1	3.7
619	JB1-633	16.1	0.0	49.3	2.1	3.7
620	JB1-634	16.3	0.0	49.3	2.1	3.7
627	JB1-643	16.3	0.0	49.3	2.1	3.7
628	JB1-644	16.2	0.0	49.3	2.1	3.7
629	JB1-645	16.2	0.0	49.3	2.1	3.7
631	JB1-646	16.4	0.0	49.3	2.1	3.7
633	JB1-648	16.3	0.0	49.3	2.1	3.7
634	JB1-649	16.6	0.0	49.3	2.1	3.7
635	JB1-650	16.6	0.0	49.3	2.1	3.7
636	JB1-651	16.4	0.0	49.3	2.1	3.7
637	JB1-652	16.3	0.0	49.3	2.1	3.7
638	JB1-653	15.8	0.0	49.3	2.2	3.7
639	JB1-654	15.7	0.0	49.3	2.2	3.8
640	JB1-655	15.7	0.0	49.3	2.2	3.8
641	JB1-656	16.0	0.0	49.3	2.1	3.7
643	JB1-658	16.4	0.0	49.3	2.1	3.7

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
644	JB1-659	16.4	0.0	49.3	2.1	3.7
645	JB1-660	16.4	0.0	49.3	2.1	3.7
646	JB1-661	16.5	0.0	49.3	2.1	3.7
647	JB1-662	16.1	0.0	49.3	2.1	3.7
648	JB1-665	16.2	0.0	49.3	2.1	3.7
649	JB1-666	16.2	0.0	49.3	2.1	3.7
651	JB1-668	16.8	0.0	49.3	2.1	3.6
653	JB1-670	16.3	0.0	49.3	2.1	3.7
655	JB1-672	16.0	0.0	49.3	2.1	3.7
656	JB1-673	16.8	0.0	49.3	2.1	3.6
661	JB1-678	16.4	0.0	49.3	2.1	3.7
662	JB1-679	16.3	0.0	49.3	2.1	3.7
664	JB1-681	16.4	0.0	49.3	2.1	3.7
666	JB1-684	16.6	0.0	49.3	2.1	3.7
669	JB1-687	16.6	0.0	49.3	2.1	3.7
670	JB1-688	16.4	0.0	49.3	2.1	3.7
672	JB1-690	16.4	0.0	49.3	2.1	3.7
673	JB1-691	16.7	0.0	49.3	2.1	3.7
676	JB1-693	16.5	0.0	49.3	2.1	3.7
677	JB1-694	16.4	0.0	49.3	2.1	3.7
678	JB1-695	16.7	0.0	49.3	2.1	3.7
681	JB1-698	16.5	0.0	49.3	2.1	3.7
682	JB1-699	16.4	0.0	49.3	2.1	3.7
683	JB1-700	17.0	0.0	49.3	2.0	3.6
684	JB1-701	17.1	0.0	49.3	2.0	3.6
685	JB1-702	16.8	0.0	49.3	2.0	3.6
674	JB1-703	16.7	0.0	49.3	2.1	3.7
686	JB1-704	16.6	0.0	49.3	2.1	3.7
687	JB1-705	16.6	0.0	49.3	2.1	3.7
689	JB1-708	16.7	0.0	49.3	2.1	3.7
691	JB1-710	16.7	0.0	49.3	2.1	3.7
692	JB1-711	16.7	0.0	49.3	2.1	3.7
693	JB1-712	16.8	0.0	49.3	2.0	3.6
696	JB1-715	17.5	0.0	49.3	2.0	3.6
697	JB1-716	16.6	0.0	49.3	2.1	3.7
698	JB1-717	17.5	0.0	49.3	2.0	3.6
700	JB1-719	17.3	0.0	49.3	2.0	3.6
704	JB1-723	15.9	0.0	49.2	2.1	3.7
705	JB1-724	15.8	0.0	49.3	2.1	3.7
706	JB1-725	16.6	0.0	49.3	2.1	3.7
707	JB1-726	15.7	0.0	49.1	2.1	3.7
708	JB1-727	15.5	0.0	49.1	2.0	3.8
709	JB1-729	15.4	0.0	49.0	2.0	3.8
713	JB1-732	15.5	0.0	49.0	2.0	3.8
714	JB1-733	15.7	0.0	49.0	2.0	3.7
715	JB1-734	15.8	0.0	49.1	2.0	3.7
716	JB1-735	15.6	0.0	49.2	2.1	3.8
718	JB1-737	15.6	0.0	49.1	2.0	3.7

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
719	JB1-738	15.6	0.0	49.1	2.0	3.7
720	JB1-739	15.7	0.0	49.1	2.1	3.7
721	JB1-740	15.8	0.0	49.2	2.1	3.7
725	JB1-744	15.3	0.0	48.9	2.0	3.8
726	JB1-745	15.1	0.0	49.0	2.0	3.8
732	JB1-751	15.1	0.0	49.0	2.0	3.8
733	JB1-752	15.1	0.0	48.9	2.0	3.8
734	JB1-753	15.1	0.0	49.0	2.0	3.8
736	JB1-761	16.8	0.0	49.5	2.2	3.6
738	JB1-763	16.5	0.0	49.4	2.2	3.7
739	JB1-764	15.9	0.0	49.4	2.2	3.7
740	JB1-765	16.0	0.0	49.4	2.2	3.7
741	JB1-766	16.0	0.0	49.4	2.2	3.7
777	JB1-768	16.1	0.0	49.4	2.2	3.7
778	JB1-769	15.7	0.0	49.1	2.0	3.7
789	JB1-780	16.5	0.0	49.3	2.1	3.7
792	JB1-783	16.5	0.0	49.2	2.0	3.7
796	JB1-787	16.5	0.0	49.3	2.1	3.7
797	JB1-788	16.8	0.0	49.3	2.0	3.6
798	JB1-789	17.1	0.0	49.3	2.0	3.6
802	JB1-793	16.9	0.0	49.3	2.0	3.6
804	JB1-795	16.5	0.0	49.3	2.1	3.7
805	JB1-796	16.7	0.0	49.3	2.1	3.7
808	JB1-799	17.0	0.0	49.3	2.0	3.6
809	JB1-800	16.9	0.0	49.3	2.0	3.6
810	JB1-801	16.9	0.0	49.3	2.0	3.6
811	JB1-802	17.3	0.0	49.3	2.0	3.6
812	JB1-803	17.2	0.0	49.3	2.0	3.6
813	JB1-804	17.2	0.0	49.3	2.0	3.6
814	JB1-805	17.3	0.0	49.3	2.0	3.6
815	JB1-806	17.2	0.0	49.3	2.0	3.6
819	JB1-810	17.1	0.0	49.3	2.0	3.6
820	JB1-811	17.3	0.0	49.3	2.0	3.6
821	JB1-812	17.2	0.0	49.3	2.0	3.6
822	JB1-813	17.3	0.0	49.3	2.0	3.6
823	JB1-814	17.3	0.0	49.3	2.0	3.6
824	JB1-815	17.3	0.0	49.3	2.0	3.6
825	JB1-816	17.3	0.0	49.3	2.0	3.6
826	JB1-817	17.3	0.0	49.3	2.0	3.6
827	JB1-818	17.3	0.0	49.3	2.0	3.6
828	JB1-819	17.3	0.0	49.3	2.0	3.6
830	JB1-821	17.3	0.0	49.3	2.0	3.6
831	JB1-822	17.4	0.0	49.3	2.0	3.6
832	JB1-823	17.4	0.0	49.3	2.0	3.6
833	JB1-824	17.4	0.0	49.3	2.0	3.6
835	JB1-826	17.6	0.0	49.3	2.0	3.6
837	JB1-828	17.5	0.0	49.3	2.0	3.6
838	JB1-829	17.4	0.0	49.3	2.0	3.6

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
840	JB1-831	17.3	0.0	49.3	2.0	3.6
842	JB1-833	17.2	0.0	49.3	2.0	3.6
843	JB1-834	17.2	0.0	49.3	2.0	3.6
845	JB1-836	17.4	0.0	49.3	2.0	3.6
744	JB1-841	17.4	0.0	49.3	2.0	3.6
745	JB1-842	17.4	0.0	49.3	2.0	3.6
748	JB1-845	17.1	0.0	49.3	2.0	3.6
752	JB1-849	16.5	0.0	49.3	2.1	3.7
753	JB1-850	16.6	0.0	49.3	2.1	3.7
754	JB1-851	16.5	0.0	49.3	2.1	3.7
756	JB1-853	15.6	0.0	49.3	2.2	3.8
757	JB1-854	16.3	0.0	49.3	2.1	3.7
758	JB1-855	16.5	0.0	49.3	2.1	3.7
759	JB1-856	16.5	0.0	49.3	2.1	3.7
760	JB1-857	16.2	0.0	49.4	2.2	3.7
762	JB1-859	16.5	0.0	49.3	2.1	3.7
763	JB1-860	16.2	0.0	49.3	2.1	3.7
764	JB1-861	16.2	0.0	49.3	2.1	3.7
766	JB1-863	15.9	0.0	49.3	2.1	3.7
767	JB1-864	16.4	0.0	49.3	2.1	3.7
768	JB1-865	16.4	0.0	49.3	2.1	3.7
769	JB1-866	16.4	0.0	49.3	2.1	3.7
770	JB1-867	16.3	0.0	49.4	2.2	3.7
771	JB1-868	16.3	0.0	49.4	2.2	3.7
773	JB1-870	16.5	0.0	49.4	2.2	3.7
774	JB1-871	15.8	0.0	49.5	2.3	3.7
775	JB1-872	15.9	0.0	49.5	2.3	3.7
850	JB1-873	16.2	0.0	49.5	2.2	3.7
851	JB1-874	16.5	0.0	49.5	2.2	3.7
852	JB1-875	16.5	0.0	49.5	2.2	3.7
853	JB1-876	16.8	0.0	49.5	2.2	3.6
855	JB1-878	16.9	0.0	49.5	2.2	3.6
857	JB1-881	16.5	0.0	49.2	2.0	3.7
858	JB1-882	15.6	0.0	49.2	2.1	3.8
860	JB1-884	16.0	0.0	49.3	2.1	3.7
861	JB1-885	16.2	0.0	49.2	2.1	3.7
862	JB1-886	15.6	0.0	49.1	2.0	3.8
863	JB1-887	15.7	0.0	49.1	2.0	3.7
865	JB1-889	15.8	0.0	49.0	2.0	3.7
1004	JSf2(JE2-1153)	14.1	0.0	49.1	2.2	3.9
160	JSf2(JE2-17)	14.6	0.0	48.8	1.9	3.8
173	JSf2(JE2-29)	14.4	0.0	48.7	1.9	3.8
195	JSf2(JE2-30)	14.2	0.0	48.7	1.9	3.9
198	JSf2(JE2-31)	14.2	0.0	48.7	1.9	3.9
196	JSf2(JE2-36)	14.6	0.0	48.8	1.9	3.8
197	JSf2(JE2-37)	14.5	0.0	48.8	1.9	3.8
433	JSf2-01(JE2)	15.2	93.0	50.2	2.5	3.8
104	JSf2-02(JE2)	15.4	98.0	49.9	2.5	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
430	JSf2-03	14.7	49.0	49.8	2.5	3.9
429	JSf2-04	14.7	49.0	49.9	2.5	3.9
105	JSf2-05(JE2)	15.3	98.0	49.3	2.2	3.8
279	JSf2-06	14.4	70.0	49.4	2.3	3.9
906	JSf2-06'	14.6	70.0	49.4	2.3	3.9
432	JSf2-07	14.7	0.0	49.5	2.4	3.9
905	JSf2-07'	14.6	107.0	49.4	2.3	3.9
291	JSf2-08(JE2-05)	15.3	912.0	49.1	2.1	3.8
434	JSf2-09	14.0	238.0	49.2	2.3	3.9
519	JSf2-10	13.5	312.0	49.2	2.3	4.0
913	JSf2-1029	14.7	0.0	49.4	2.3	3.9
892	JSf2-1030	14.4	0.0	49.4	2.3	3.9
914	JSf2-1031	14.3	0.0	49.4	2.3	3.9
919	JSf2-1036	14.4	0.0	49.3	2.3	3.9
924	JSf2-1043	14.3	0.0	49.3	2.3	3.9
927	JSf2-1046	14.4	0.0	49.3	2.3	3.9
936	JSf2-1056	14.2	0.0	49.2	2.2	3.9
938	JSf2-1058	14.4	0.0	49.2	2.2	3.9
948	JSf2-1067	14.3	0.0	49.3	2.3	3.9
949	JSf2-1068	13.7	0.0	49.2	2.3	3.9
941	JSf2-1076	14.2	0.0	49.3	2.3	3.9
958	JSf2-1096	13.4	0.0	48.8	2.0	4.0
959	JSf2-1097	13.4	0.0	49.2	2.3	4.0
438	JSf2-11	13.1	0.0	49.3	2.4	4.0
192	JSf2-11(JE2-41)	13.1	395.0	49.3	2.4	4.0
963	JSf2-1100	13.3	0.0	49.3	2.4	4.0
977	JSf2-1116	13.8	0.0	48.8	2.0	3.9
985	JSf2-1124	14.0	0.0	48.8	2.0	3.9
992	JSf2-1131	13.2	0.0	49.3	2.4	4.0
993	JSf2-1132(JE2)	13.6	0.0	48.9	2.1	3.9
995	JSf2-1134(JE2)	13.5	0.0	49.1	2.3	4.0
997	JSf2-1136(JE2)	13.4	0.0	49.3	2.4	4.0
1001	JSf2-1150	13.1	0.0	49.3	2.4	4.0
1002	JSf2-1151	13.0	0.0	49.4	2.5	4.0
1006	JSf2-1155(JE2)	14.0	0.0	49.3	2.3	3.9
1011	JSf2-1160	13.3	0.0	49.4	2.5	4.0
1013	JSf2-1162	13.5	0.0	49.4	2.5	4.0
1015	JSf2-1164(JE2)	14.0	0.0	49.4	2.4	3.9
1016	JSf2-1165(JE2)	13.6	0.0	49.4	2.5	4.0
1019	JSf2-1168	13.4	0.0	49.4	2.5	4.0
1022	JSf2-1171	13.3	0.0	49.4	2.5	4.0
1026	JSf2-1176	12.9	0.0	49.4	2.5	4.0
1028	JSf2-1181	12.9	0.0	49.4	2.5	4.0
1031	JSf2-1189	12.7	0.0	49.4	2.5	4.1
1032	JSf2-1195	13.0	0.0	49.4	2.5	4.0
1034	JSf2-1197	12.9	0.0	49.5	2.5	4.0
109	JSf2-12(JE2-12)	14.8	203.0	48.8	1.9	3.8
1041	JSf2-1207	13.0	0.0	49.4	2.5	4.0

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1042	JSf2-1208	13.0	0.0	49.5	2.5	4.0
1045	JSf2-1211	12.6	0.0	49.4	2.6	4.1
1046	JSf2-1212	12.7	0.0	49.5	2.6	4.1
1048	JSf2-1214	13.5	0.0	49.5	2.5	4.0
1050	JSf2-1216	13.2	0.0	49.5	2.5	4.0
158	JSf2-13(JE2-15)	13.7	259.0	48.8	2.0	3.9
440	JSf2-14	13.7	908.0	48.8	2.0	3.9
155	JSf2-15(JE2-39)	13.4	122.0	49.4	2.5	4.0
442	JSf2-16(JE2-40)	13.2	122.0	49.4	2.5	4.0
2300	JSf2-17	13.4	510.0	49.4	2.5	4.0
1037	JSf2-18	12.3	429.0	49.5	2.6	4.1
1705	JSf2-1899	14.4	0.0	48.8	1.9	3.9
168	JSf2-19(JE2-25)	14.2	401.0	48.6	1.9	3.9
1707	JSf2-1901	14.4	0.0	48.8	1.9	3.9
1710	JSf2-1904	14.4	0.0	48.8	1.9	3.9
1712	JSf2-1906	14.4	0.0	48.8	1.9	3.9
1715	JSf2-1909	14.5	0.0	48.8	1.9	3.8
1721	JSf2-1915	14.7	0.0	48.8	1.9	3.8
201	JSf2-20	13.3	0.0	49.4	2.5	4.0
169	JSf2-20(JE2-38)	14.2	0.0	48.9	2.0	3.9
175	JSf2-21	13.5	203.0	49.5	2.5	4.0
111	JSf2-21(JE2-14)	14.8	0.0	48.8	1.9	3.8
1039	JSf2-22	13.4	267.0	49.4	2.5	4.0
1049	JSf2-23	13.4	77.0	49.5	2.5	4.0
460	JSf2-24	12.4	77.0	49.4	2.6	4.1
449	JSf2-25	11.5	106.0	49.4	2.6	4.2
2297	JSf2-2549(JE2)	13.4	0.0	49.2	2.3	4.0
743	JSf2-2552	14.4	0.0	49.2	2.2	3.9
2299	JSf2-2558	11.9	0.0	49.4	2.6	4.1
2302	JSf2-2562	12.5	0.0	49.4	2.6	4.1
2305	JSf2-2565	12.6	0.0	49.5	2.6	4.1
2306	JSf2-2566	13.5	0.0	49.5	2.5	4.0
2309	JSf2-2569	12.9	0.0	49.5	2.5	4.0
2311	JSf2-2571	13.4	0.0	49.5	2.5	4.0
2313	JSf2-2572	12.4	0.0	49.5	2.6	4.1
2315	JSf2-2574	12.2	0.0	49.4	2.6	4.1
2321	JSf2-2580	12.4	0.0	49.5	2.6	4.1
2326	JSf2-2585	11.8	0.0	49.5	2.7	4.2
2329	JSf2-2588	13.3	0.0	49.5	2.5	4.0
451	JSf2-26	11.0	0.0	49.3	2.6	4.2
2337	JSf2-2623	12.4	0.0	49.5	2.6	4.1
2340	JSf2-2626	12.4	0.0	49.4	2.6	4.1
2343	JSf2-2629	11.9	0.0	49.4	2.6	4.1
452	JSf2-27	10.7	443.0	49.3	2.6	4.3
962	JSf2-2758	13.4	0.0	49.3	2.4	4.0
443	JSf2-28	10.6	434.0	49.3	2.6	4.3
2358	JSf2-2828	14.0	0.0	49.6	2.5	3.9
431	JSf2-310	13.4	0.0	49.7	2.6	4.0

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					Minimum (kg/cm ²)	Maximum (kg/cm ²)
436	JSf2-315	14.4	0.0	49.2	2.2	3.9
437	JSf2-316	13.3	0.0	49.3	2.4	4.0
439	JSf2-320(JE2)	13.5	0.0	48.8	2.0	3.9
441	JSf2-322	13.5	0.0	49.4	2.5	4.0
445	JSf2-334	10.7	0.0	49.3	2.6	4.3
447	JSf2-336	11.1	0.0	49.3	2.6	4.2
191	JSf2-42(JE2)	13.6	0.0	49.4	2.5	4.0
884	JSf2-980	15.0	0.0	49.9	2.5	3.8
885	JSf2-981	14.5	0.0	49.9	2.5	3.9
961	JBf2-10'	13.6	0.0	49.2	2.3	4.0
2294	JB2-09'	13.4	0.0	49.2	2.3	4.0
909	JB2-1024	15.0	0.0	49.4	2.3	3.8
910	JB2-1025	14.7	0.0	49.4	2.3	3.9
891	JB2-1026	14.8	0.0	49.4	2.3	3.8
911	JB2-1027	14.9	0.0	49.4	2.3	3.8
916	JB2-1033	14.6	0.0	49.3	2.3	3.9
917	JB2-1034	14.3	0.0	49.3	2.3	3.9
918	JB2-1035	14.3	0.0	49.3	2.3	3.9
920	JB2-1039	14.5	0.0	49.2	2.2	3.9
921	JB2-1040	14.0	0.0	49.3	2.3	3.9
922	JB2-1041	14.2	0.0	49.3	2.3	3.9
923	JB2-1042	14.2	0.0	49.3	2.3	3.9
925	JB2-1044	14.3	0.0	49.3	2.3	3.9
926	JB2-1045	14.3	0.0	49.3	2.3	3.9
929	JB2-1048	15.1	0.0	49.3	2.2	3.8
930	JB2-1049	14.3	0.0	49.3	2.3	3.9
931	JB2-1050	14.4	0.0	49.2	2.2	3.9
935	JB2-1055	14.6	0.0	49.1	2.1	3.9
937	JB2-1057	14.5	0.0	49.2	2.2	3.9
939	JB2-1059	14.9	0.0	49.3	2.3	3.8
940	JB2-1060	14.3	0.0	49.3	2.3	3.9
942	JB2-1061	14.3	0.0	49.3	2.3	3.9
943	JB2-1062	14.3	0.0	49.3	2.3	3.9
944	JB2-1063	13.5	0.0	49.3	2.4	4.0
946	JB2-1065	14.6	0.0	49.1	2.1	3.9
950	JB2-1069	13.8	0.0	49.1	2.2	3.9
952	JB2-1072	14.1	0.0	49.1	2.2	3.9
954	JB2-1074	14.0	0.0	49.2	2.2	3.9
955	JB2-1075	13.7	0.0	49.2	2.3	3.9
956	JB2-1094	13.5	0.0	49.1	2.3	4.0
957	JB2-1095	13.5	0.0	49.0	2.2	4.0
960	JB2-1098	13.4	0.0	49.2	2.3	4.0
970	JB2-1109	14.3	0.0	48.8	2.0	3.9
971	JB2-1110	14.4	0.0	48.8	1.9	3.9
972	JB2-1111	14.4	0.0	48.8	1.9	3.9
978	JB2-1117	13.0	0.0	49.2	2.3	4.0
979	JB2-1118	12.7	0.0	49.1	2.3	4.0
980	JB2-1119	13.3	0.0	49.0	2.2	4.0

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					Minimum (kg/cm ²)	Maximum (kg/cm ²)
982	JB2-1121	13.3	0.0	49.2	2.3	4.0
983	JB2-1122	13.5	0.0	49.0	2.2	4.0
984	JB2-1123	13.3	0.0	48.8	2.1	4.0
986	JB2-1125	13.6	0.0	48.9	2.1	3.9
987	JB2-1126	13.3	0.0	49.0	2.2	4.0
988	JB2-1127	13.1	0.0	49.2	2.4	4.0
990	JB2-1129	13.5	0.0	49.2	2.3	4.0
991	JB2-1130	13.1	0.0	49.2	2.4	4.0
996	JB2-1135	13.1	0.0	49.3	2.4	4.0
998	JB2-1138	14.6	0.0	49.0	2.1	3.8
1007	JB2-1156	13.6	0.0	49.3	2.4	4.0
1008	JB2-1157	13.6	0.0	49.4	2.4	4.0
1009	JB2-1158	13.5	0.0	49.4	2.5	4.0
1010	JB2-1159	13.5	0.0	49.4	2.5	4.0
1012	JB2-1161	13.4	0.0	49.4	2.5	4.0
1014	JB2-1163	13.6	0.0	49.4	2.4	4.0
1017	JB2-1166	13.5	0.0	49.4	2.5	4.0
1018	JB2-1167	13.3	0.0	49.4	2.5	4.0
1020	JB2-1169	13.4	0.0	49.4	2.5	4.0
1021	JB2-1170	13.4	0.0	49.4	2.5	4.0
1023	JB2-1172	12.8	0.0	49.4	2.5	4.1
1024	JB2-1173	13.4	0.0	49.4	2.5	4.0
1025	JB2-1175	13.2	0.0	49.4	2.5	4.0
1027	JB2-1180	13.3	0.0	49.4	2.5	4.0
1029	JB2-1182	12.8	0.0	49.4	2.5	4.1
1033	JB2-1196	11.5	0.0	49.5	2.7	4.2
1035	JB2-1198	12.0	0.0	49.4	2.6	4.1
1036	JB2-1199	12.3	0.0	49.4	2.6	4.1
1038	JB2-1203	13.5	0.0	49.4	2.5	4.0
1040	JB2-1206	13.3	0.0	49.4	2.5	4.0
1043	JB2-1209	12.7	0.0	49.4	2.5	4.1
1044	JB2-1210	11.6	0.0	49.5	2.7	4.2
1047	JB2-1213	12.0	0.0	49.5	2.6	4.1
1051	JB2-1217	11.7	0.0	49.5	2.7	4.2
1052	JB2-1218	12.3	0.0	49.5	2.6	4.1
1703	JB2-1897	14.3	0.0	48.8	2.0	3.9
1704	JB2-1898	14.4	0.0	48.8	1.9	3.9
1706	JB2-1900	14.3	0.0	48.8	2.0	3.9
1708	JB2-1902	14.4	0.0	48.8	1.9	3.9
1709	JB2-1903	14.7	0.0	48.8	1.9	3.8
1711	JB2-1905	14.6	0.0	48.8	1.9	3.8
1714	JB2-1908	14.4	0.0	48.8	1.9	3.9
1716	JB2-1910	14.2	0.0	48.8	2.0	3.9
1717	JB2-1911	14.2	0.0	48.8	2.0	3.9
1719	JB2-1913	14.5	0.0	48.8	1.9	3.8
1720	JB2-1914	14.5	0.0	48.8	1.9	3.8
527	JB2-2537	12.7	0.0	49.4	2.5	4.1
2287	JB2-2539	13.3	0.0	49.2	2.3	4.0

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2288	JB2-2540	13.5	0.0	49.2	2.3	4.0
2290	JB2-2542	13.9	0.0	48.9	2.1	3.9
2291	JB2-2543	14.5	0.0	48.9	2.0	3.9
2292	JB2-2544	14.1	0.0	48.9	2.1	3.9
2295	JB2-2547	13.5	0.0	49.2	2.3	4.0
2296	JB2-2548	13.2	0.0	49.1	2.3	4.0
2298	JB2-2550	13.1	0.0	49.2	2.4	4.0
2301	JB2-2561	12.5	0.0	49.4	2.6	4.1
2303	JB2-2563	11.5	0.0	49.5	2.7	4.2
2304	JB2-2564	12.3	0.0	49.5	2.6	4.1
2307	JB2-2567	12.0	0.0	49.5	2.6	4.1
2308	JB2-2568	11.6	0.0	49.5	2.7	4.2
2310	JB2-2570	13.0	0.0	49.5	2.5	4.0
2314	JB2-2573	12.2	0.0	49.5	2.6	4.1
2316	JB2-2575	11.6	0.0	49.5	2.7	4.2
2317	JB2-2576	11.5	0.0	49.5	2.7	4.2
2318	JB2-2577	12.0	0.0	49.5	2.6	4.1
2319	JB2-2578	12.4	0.0	49.5	2.6	4.1
2320	JB2-2579	12.4	0.0	49.5	2.6	4.1
2322	JB2-2581	12.0	0.0	49.5	2.6	4.1
2323	JB2-2582	11.5	0.0	49.5	2.7	4.2
2324	JB2-2583	12.0	0.0	49.5	2.6	4.1
2325	JB2-2584	12.5	0.0	49.4	2.6	4.1
2327	JB2-2586	12.9	0.0	49.5	2.5	4.0
2328	JB2-2587	12.8	0.0	49.5	2.6	4.1
2330	JB2-2589	13.0	0.0	49.4	2.5	4.0
2331	JB2-2590	12.6	0.0	49.4	2.6	4.1
2332	JB2-2591	12.7	0.0	49.4	2.5	4.1
2333	JB2-2592	12.5	0.0	49.4	2.6	4.1
890	JB2-2595	12.6	0.0	49.5	2.6	4.1
2334	JB2-2596	12.8	0.0	49.4	2.5	4.0
2335	JB2-2621	13.0	0.0	49.4	2.5	4.0
2336	JB2-2622	12.7	0.0	49.4	2.5	4.1
2338	JB2-2624	12.9	0.0	49.5	2.5	4.0
2339	JB2-2625	13.0	0.0	49.4	2.5	4.0
2341	JB2-2627	12.4	0.0	49.4	2.6	4.1
2342	JB2-2628	12.4	0.0	49.4	2.6	4.1
2344	JB2-2630	12.0	0.0	49.4	2.6	4.1
2345	JB2-2631	11.7	0.0	49.5	2.6	4.2
2346	JB2-2632	12.4	0.0	49.4	2.6	4.1
2347	JB2-2633	12.3	0.0	49.4	2.6	4.1
2348	JB2-2640	12.7	0.0	49.4	2.5	4.1
2349	JB2-2641	13.0	0.0	49.4	2.5	4.0
2350	JB2-2677	12.7	0.0	49.5	2.6	4.1
2352	JB2-2766	13.1	0.0	49.2	2.4	4.0
2353	JB2-2767	13.2	0.0	49.2	2.4	4.0
2354	JB2-2796	14.6	0.0	49.8	2.5	3.9
2355	JB2-2797	14.1	0.0	49.8	2.6	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2356	JB2-2798	13.5	0.0	49.1	2.2	4.0
2357	JB2-2827	14.1	0.0	49.5	2.5	3.9
886	JB2-982	14.8	0.0	49.7	2.5	3.9
894	JB2-983	14.8	0.0	49.7	2.5	3.9
897	JB2-987	14.5	0.0	49.6	2.5	3.9
899	JB2-989	15.3	0.0	49.4	2.3	3.8
900	JB2-990	14.9	0.0	49.4	2.3	3.8
901	JB2-991	14.5	0.0	49.6	2.5	3.9
902	JB2-992	14.3	0.0	49.5	2.5	3.9
903	JB2-993	14.9	0.0	49.5	2.3	3.8
128	JSf3-01(JE3-01)	15.0	367.0	48.7	1.8	3.8
129	JSf3-02(JE3)	15.1	0.0	48.7	1.8	3.8
141	JSf3-02(JE3-07)	15.8	303.0	48.9	1.9	3.7
889	JSf3-03	16.5	32.0	49.3	2.1	3.7
130	JSf3-03(JE3)	15.1	0.0	48.8	1.9	3.8
888	JSf3-04	16.5	32.0	49.3	2.1	3.7
131	JSf3-04(JE3)	15.1	0.0	49.0	2.0	3.8
1206	JSf3-05	17.2	64.0	49.3	2.0	3.6
1422	JSf3-05(JE3)	15.1	0.0	49.2	2.1	3.8
310	JSf3-06(JE3)	15.1	856.0	48.7	1.8	3.8
1090	JSf3-07	15.2	640.0	48.9	1.9	3.8
1186	JSf3-08	16.1	384.0	49.3	2.1	3.7
132	JSf3-09	15.1	431.0	49.2	2.1	3.8
316	JSf3-10	16.0	156.0	49.2	2.0	3.7
882	JSf3-11	16.5	156.0	49.2	2.0	3.7
1191	JSf3-12	17.2	1,328.0	49.3	2.0	3.6
318	JSf3-12(JE3)	15.2	0.0	49.0	2.0	3.8
1059	JSf3-1225(JE3)	15.1	0.0	48.7	1.8	3.8
1068	JSf3-1235	15.1	0.0	48.9	2.0	3.8
1069	JSf3-1236	15.1	0.0	48.9	1.9	3.8
1070	JSf3-1237	15.1	0.0	48.8	1.9	3.8
1071	JSf3-1238	15.1	239.0	48.7	1.8	3.8
1080	JSf3-1248	15.7	0.0	48.9	1.9	3.7
1082	JSf3-1251	15.2	0.0	48.8	1.9	3.8
1087	JSf3-1256	15.9	0.0	49.0	1.9	3.7
1089	JSf3-1258	15.8	0.0	48.9	1.9	3.7
1091	JSf3-1260(JE3)	15.6	0.0	48.7	1.8	3.7
1096	JSf3-1265	14.9	0.0	48.7	1.8	3.8
1097	JSf3-1266	14.9	0.0	48.7	1.8	3.8
1098	JSf3-1267(JE3)	15.1	0.0	48.8	1.9	3.8
1101	JSf3-1270	14.9	0.0	48.7	1.9	3.8
1102	JSf3-1271(JE3)	15.1	0.0	48.9	1.9	3.8
1112	JSf3-1281(JE3)	15.1	0.0	49.0	2.0	3.8
1115	JSf3-1284(JE3)	15.0	0.0	49.0	2.0	3.8
1121	JSf3-1290	15.2	0.0	49.0	2.0	3.8
1125	JSf3-1295	15.2	0.0	48.9	2.0	3.8
1128	JSf3-1297	16.0	0.0	49.2	2.1	3.7
1240	JSf3-13	17.2	558.0	49.3	2.0	3.6

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1416	JSf3-13(JE3)	15.0	0.0	49.2	2.1	3.8
1140	JSf3-1309	15.4	0.0	48.9	1.9	3.8
1143	JSf3-1312	15.2	0.0	48.9	2.0	3.8
1147	JSf3-1316	15.2	0.0	48.9	1.9	3.8
1154	JSf3-1323	14.7	0.0	49.0	2.0	3.8
1161	JSf3-1330	15.0	0.0	49.0	2.0	3.8
1172	JSf3-1341(JE3)	15.1	0.0	49.0	2.0	3.8
1176	JSf3-1345(JE3)	15.1	0.0	49.1	2.1	3.8
1180	JSf3-1349(JE3)	15.1	0.0	49.1	2.1	3.8
1184	JSf3-1353	15.8	0.0	49.2	2.1	3.7
1185	JSf3-1354	16.1	0.0	49.3	2.1	3.7
1187	JSf3-1356	16.1	0.0	49.3	2.1	3.7
1188	JSf3-1357	15.6	0.0	49.2	2.1	3.8
1194	JSf3-1364	16.2	0.0	49.3	2.1	3.7
1198	JSf3-1367	16.9	0.0	49.3	2.0	3.6
1203	JSf3-1372	17.2	0.0	49.3	2.0	3.6
1205	JSf3-1374	17.3	0.0	49.2	2.0	3.6
1207	JSf3-1376	17.2	0.0	49.3	2.0	3.6
1209	JSf3-1378	17.2	0.0	49.3	2.0	3.6
1217	JSf3-1386	16.8	0.0	49.3	2.0	3.6
1219	JSf3-1388	17.4	0.0	49.3	2.0	3.6
1226	JSf3-1396	16.1	0.0	49.3	2.1	3.7
1227	JSf3-1397	16.1	0.0	49.3	2.1	3.7
1228	JSf3-1398	16.1	0.0	49.3	2.1	3.7
309	JSf3-14	17.3	731.0	49.2	1.9	3.6
1229	JSf3-1400	17.3	0.0	49.2	2.0	3.6
1239	JSf3-1410	16.2	0.0	49.3	2.1	3.7
1267	JSf3-1411	17.5	0.0	49.3	2.0	3.6
1242	JSf3-1415	15.5	0.0	49.2	2.1	3.8
1246	JSf3-1419	16.3	0.0	49.2	2.0	3.7
1251	JSf3-1425	15.3	0.0	49.1	2.1	3.8
1252	JSf3-1426	14.2	0.0	49.1	2.2	3.9
1259	JSf3-1433	15.6	0.0	49.3	2.1	3.8
1407	JSf3-1445	16.2	0.0	49.3	2.1	3.7
1414	JSf3-1452	15.1	0.0	49.2	2.2	3.8
1423	JSf3-1461	15.1	0.0	49.2	2.1	3.8
1425	JSf3-1463	15.1	0.0	49.3	2.2	3.8
1273	JSf3-1482	15.1	0.0	49.3	2.2	3.8
1275	JSf3-1484	15.5	0.0	49.2	2.1	3.8
280	JSf3-1485	16.6	0.0	49.2	2.0	3.7
1126	JSf3-1486	16.2	0.0	49.3	2.1	3.7
321	JSf3-1490	16.8	0.0	49.3	2.0	3.6
1282	JSf3-1496	16.3	0.0	49.3	2.1	3.7
1285	JSf3-1499	15.5	0.0	49.3	2.1	3.8
1368	JSf3-15(JE3)	15.1	311.0	49.4	2.3	3.8
1298	JSf3-1512	15.5	0.0	49.3	2.2	3.8
1302	JSf3-1516	15.5	0.0	49.3	2.2	3.8
1438	JSf3-1523	15.4	0.0	49.3	2.2	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1309	JSf3-1524	15.5	0.0	49.3	2.2	3.8
1310	JSf3-1525	15.1	0.0	49.3	2.2	3.8
1311	JSf3-1527	15.1	0.0	49.3	2.2	3.8
1312	JSf3-1530	15.1	0.0	49.4	2.3	3.8
1315	JSf3-1533	17.3	0.0	49.2	1.9	3.6
1319	JSf3-1537	16.6	0.0	49.3	2.1	3.7
1233	JSf3-1538	17.4	0.0	49.2	1.9	3.6
1320	JSf3-1540	16.6	0.0	49.3	2.1	3.7
1326	JSf3-1546	16.0	0.0	49.4	2.2	3.7
1337	JSf3-1557	15.4	0.0	49.4	2.2	3.8
1367	JSf3-1588	14.6	0.0	49.4	2.3	3.9
1370	JSf3-1591	14.6	0.0	49.4	2.3	3.9
1372	JSf3-1593	14.8	0.0	49.4	2.3	3.9
1376	JSf3-1597	15.0	0.0	49.4	2.3	3.8
1327	JSf3-16	15.5	311.0	49.4	2.2	3.8
1377	JSf3-1600	14.6	0.0	49.4	2.3	3.9
1378	JSf3-1601	14.6	0.0	49.4	2.3	3.9
1379	JSf3-1602	15.0	0.0	49.4	2.3	3.8
1382	JSf3-1607	15.1	0.0	49.4	2.3	3.8
1389	JSf3-1623	15.5	0.0	49.3	2.2	3.8
1392	JSf3-1626	15.5	0.0	49.4	2.2	3.8
1399	JSf3-1633	16.3	0.0	49.3	2.1	3.7
1400	JSf3-1634	16.2	0.0	49.3	2.1	3.7
1401	JSf3-1636	15.5	0.0	49.4	2.2	3.8
1402	JSf3-1637	16.5	0.0	49.3	2.1	3.7
1475	JSf3-1638	16.2	0.0	49.3	2.1	3.7
1477	JSf3-1641	15.2	0.0	49.3	2.2	3.8
1480	JSf3-1645	17.3	0.0	49.2	2.0	3.6
1482	JSf3-1647	16.1	0.0	49.3	2.1	3.7
1483	JSf3-1648	16.6	0.0	49.3	2.1	3.7
1488	JSf3-1653	16.2	0.0	49.3	2.1	3.7
1493	JSf3-1658	16.2	0.0	49.3	2.1	3.7
1497	JSf3-1663	16.2	0.0	49.4	2.1	3.7
1499	JSf3-1665	15.4	0.0	49.4	2.2	3.8
1508	JSf3-1674	16.3	0.0	49.3	2.1	3.7
1510	JSf3-1676	16.3	0.0	49.3	2.1	3.7
1515	JSf3-1681	16.4	0.0	49.3	2.1	3.7
1516	JSf3-1682	16.6	0.0	49.4	2.1	3.7
1517	JSf3-1683	15.0	0.0	49.4	2.3	3.8
1521	JSf3-1689	17.1	0.0	49.3	2.0	3.6
1522	JSf3-1690	17.4	0.0	49.2	1.9	3.6
1528	JSf3-1696	16.3	0.0	49.3	2.1	3.7
1648	JSf3-17	16.7	156.0	49.4	2.1	3.7
1476	JSf3-17'	16.6	311.0	49.4	2.1	3.7
1535	JSf3-1703	17.2	0.0	49.2	2.0	3.6
1538	JSf3-1706	16.8	0.0	49.3	2.0	3.6
1539	JSf3-1707	17.0	0.0	49.3	2.0	3.6
1540	JSf3-1708	16.6	0.0	49.3	2.1	3.7

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1542	JSf3-1710	15.0	0.0	49.3	2.2	3.8
1547	JSf3-1716	14.5	0.0	49.3	2.3	3.9
322	JSf3-1717	14.5	0.0	49.3	2.3	3.9
1548	JSf3-1719	15.2	0.0	49.4	2.2	3.8
1550	JSf3-1724	15.1	0.0	49.3	2.2	3.8
1555	JSf3-1729	15.3	0.0	49.4	2.2	3.8
1560	JSf3-1735	14.5	0.0	49.3	2.3	3.9
1561	JSf3-1736	14.7	0.0	49.4	2.3	3.9
1572	JSf3-1748	14.9	0.0	49.3	2.2	3.8
1575	JSf3-1751	14.6	0.0	49.3	2.2	3.9
1582	JSf3-1758	14.9	0.0	49.3	2.2	3.8
1588	JSf3-1765	14.8	0.0	49.3	2.2	3.8
1596	JSf3-1774	15.1	0.0	49.3	2.2	3.8
1597	JSf3-1775	15.1	0.0	49.3	2.2	3.8
1598	JSf3-1776	15.1	0.0	49.3	2.2	3.8
1604	JSf3-1784	15.2	0.0	49.3	2.2	3.8
1608	JSf3-1788	15.3	0.0	49.4	2.2	3.8
236	JSf3-18	17.2	347.0	49.3	2.0	3.6
1618	JSf3-1800	15.1	0.0	49.3	2.2	3.8
1621	JSf3-1806	16.3	0.0	49.2	2.1	3.7
1635	JSf3-1824	15.6	0.0	49.3	2.1	3.8
1636	JSf3-1825	15.4	0.0	49.3	2.1	3.8
1637	JSf3-1826	16.0	0.0	49.2	2.1	3.7
1630	JSf3-1829	15.8	0.0	49.2	2.1	3.7
1631	JSf3-1830	16.6	0.0	49.3	2.1	3.7
1641	JSf3-1833	16.6	0.0	49.3	2.0	3.7
1643	JSf3-1835	16.5	0.0	49.2	2.0	3.7
1646	JSf3-1838	16.6	0.0	49.4	2.1	3.7
1649	JSf3-1842	16.6	0.0	49.2	2.0	3.7
1651	JSf3-1844	17.3	0.0	49.3	2.0	3.6
1654	JSf3-1848	16.6	0.0	49.2	2.0	3.7
1655	JSf3-1849	16.8	0.0	49.2	2.0	3.6
1659	JSf3-1853	17.2	0.0	49.2	2.0	3.6
1660	JSf3-1854	16.6	0.0	49.3	2.1	3.7
1664	JSf3-1858	17.4	0.0	49.2	1.9	3.6
1668	JSf3-1862	17.0	0.0	49.2	2.0	3.6
1672	JSf3-1866	14.9	0.0	49.3	2.2	3.8
1675	JSf3-1869	14.8	0.0	49.2	2.2	3.8
1680	JSf3-1874	14.9	0.0	49.3	2.2	3.8
1688	JSf3-1882	14.9	0.0	49.3	2.2	3.8
1700	JSf3-1894	15.1	0.0	49.3	2.2	3.8
288	JSf3-19	14.9	311.0	49.3	2.2	3.8
238	JSf3-20	15.3	311.0	49.3	2.2	3.8
179	JSf3-21	16.7	347.0	49.2	2.0	3.7
237	JSf3-22	17.0	347.0	49.2	2.0	3.6
306	JSf3-242	17.4	0.0	49.3	2.0	3.6
312	JSf3-248	15.9	0.0	49.0	2.0	3.7
317	JSf3-254	15.8	0.0	49.0	2.0	3.7

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
872	JSf3-2555	15.0	0.0	49.4	2.3	3.8
869	JSf3-2556	15.0	0.0	49.4	2.3	3.8
883	JSf3-2594	15.0	0.0	49.2	2.2	3.8
239	JSf3-261	14.8	0.0	49.2	2.2	3.8
887	JSf3-2653	16.1	0.0	49.3	2.1	3.7
246	JSf3-269	15.1	0.0	49.3	2.2	3.8
287	JB3-06	15.1	0.0	48.9	2.0	3.8
513	JB3-10	15.1	0.0	48.7	1.8	3.8
1274	JB3-1000	15.0	0.0	49.2	2.2	3.8
1056	JB3-1222	14.7	0.0	48.7	1.9	3.8
1057	JB3-1223	14.8	0.0	48.7	1.9	3.8
1058	JB3-1224	15.1	0.0	48.7	1.8	3.8
1060	JB3-1226	14.7	0.0	48.7	1.9	3.8
1061	JB3-1227	14.7	0.0	48.7	1.9	3.8
1062	JB3-1228	14.8	0.0	48.7	1.9	3.8
1064	JB3-1230	15.0	0.0	48.7	1.8	3.8
1065	JB3-1232	15.2	0.0	48.7	1.8	3.8
1067	JB3-1234	15.1	0.0	48.8	1.9	3.8
320	JB3-1239	15.0	0.0	48.7	1.8	3.8
1072	JB3-1240	15.2	0.0	48.7	1.8	3.8
1073	JB3-1241	15.1	0.0	48.7	1.8	3.8
1074	JB3-1242	15.1	0.0	48.7	1.8	3.8
1078	JB3-1246	15.3	0.0	48.8	1.9	3.8
1079	JB3-1247	15.2	0.0	48.8	1.9	3.8
1081	JB3-1249	15.1	0.0	48.7	1.8	3.8
1083	JB3-1252	15.2	0.0	48.8	1.9	3.8
1084	JB3-1253	15.5	0.0	48.8	1.9	3.7
1085	JB3-1254	15.2	0.0	48.8	1.9	3.8
1086	JB3-1255	15.1	0.0	48.9	1.9	3.8
1088	JB3-1257	15.8	0.0	49.0	1.9	3.7
1092	JB3-1261	14.9	0.0	48.7	1.8	3.8
1093	JB3-1262	14.9	0.0	48.7	1.9	3.8
1094	JB3-1263	15.1	0.0	48.7	1.8	3.8
1095	JB3-1264	14.9	0.0	48.7	1.8	3.8
1099	JB3-1268	15.0	0.0	48.8	1.9	3.8
1103	JB3-1272	15.0	0.0	48.9	2.0	3.8
1104	JB3-1273	15.2	0.0	48.9	1.9	3.8
1105	JB3-1274	14.7	0.0	48.9	2.0	3.8
1106	JB3-1275	15.0	0.0	48.8	1.9	3.8
1108	JB3-1277	15.0	0.0	48.8	1.9	3.8
1110	JB3-1279	15.0	0.0	48.8	1.9	3.8
1111	JB3-1280	15.1	0.0	48.9	2.0	3.8
1113	JB3-1282	15.0	0.0	49.0	2.0	3.8
1114	JB3-1283	15.1	0.0	49.0	2.0	3.8
1116	JB3-1285	15.0	0.0	48.9	2.0	3.8
1117	JB3-1286	15.1	0.0	49.0	2.0	3.8
1118	JB3-1287	15.1	0.0	49.0	2.0	3.8
1119	JB3-1288	15.1	0.0	49.0	2.0	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1120	JB3-1289	15.2	0.0	49.0	2.0	3.8
1122	JB3-1291	15.4	0.0	49.1	2.0	3.8
1123	JB3-1293	14.6	0.0	49.1	2.1	3.8
1124	JB3-1294	15.5	0.0	49.1	2.1	3.8
1127	JB3-1296	15.0	0.0	48.9	1.9	3.8
1129	JB3-1298	15.7	0.0	49.2	2.1	3.7
1130	JB3-1299	15.2	0.0	48.7	1.8	3.8
1131	JB3-1300	15.5	0.0	48.7	1.8	3.7
1132	JB3-1301	15.2	0.0	48.8	1.9	3.8
1133	JB3-1302	15.4	0.0	48.8	1.8	3.8
1134	JB3-1303	15.3	0.0	48.8	1.9	3.8
1137	JB3-1306	15.7	0.0	48.9	1.9	3.7
1138	JB3-1307	15.3	0.0	49.0	2.0	3.8
1139	JB3-1308	15.3	0.0	49.0	2.0	3.8
1141	JB3-1310	15.8	0.0	49.0	2.0	3.7
1142	JB3-1311	15.8	0.0	49.0	2.0	3.7
1144	JB3-1313	15.7	0.0	49.0	2.0	3.7
1145	JB3-1314	15.0	0.0	48.9	1.9	3.8
1146	JB3-1315	14.6	0.0	48.9	2.0	3.8
1148	JB3-1317	15.1	0.0	48.9	1.9	3.8
1149	JB3-1318	15.2	0.0	48.9	1.9	3.8
1150	JB3-1319	15.0	0.0	48.8	1.9	3.8
1151	JB3-1320	15.2	0.0	48.9	1.9	3.8
1152	JB3-1321	15.1	0.0	48.9	2.0	3.8
1153	JB3-1322	15.1	0.0	48.8	1.9	3.8
1155	JB3-1324	14.8	0.0	49.0	2.0	3.8
1156	JB3-1325	14.8	0.0	48.9	2.0	3.8
1157	JB3-1326	14.7	0.0	48.9	2.0	3.8
1158	JB3-1327	14.7	0.0	48.9	2.0	3.8
1159	JB3-1328	15.0	0.0	48.9	2.0	3.8
1160	JB3-1329	15.2	0.0	48.9	2.0	3.8
1162	JB3-1331	15.2	0.0	49.1	2.0	3.8
1163	JB3-1332	15.3	0.0	49.1	2.1	3.8
1164	JB3-1333	15.3	0.0	49.1	2.1	3.8
1165	JB3-1334	15.4	0.0	49.1	2.1	3.8
1166	JB3-1335	15.4	0.0	49.1	2.0	3.8
1167	JB3-1336	14.9	0.0	49.0	2.0	3.8
1168	JB3-1337	15.4	0.0	49.1	2.1	3.8
1169	JB3-1338	15.3	0.0	49.1	2.1	3.8
1171	JB3-1340	15.5	0.0	49.2	2.1	3.8
1173	JB3-1342	15.3	0.0	49.1	2.1	3.8
1175	JB3-1344	15.0	0.0	49.1	2.1	3.8
1178	JB3-1347	15.0	0.0	49.1	2.1	3.8
1179	JB3-1348	14.9	0.0	49.1	2.1	3.8
1181	JB3-1350	15.1	0.0	49.0	2.0	3.8
1183	JB3-1352	15.1	0.0	49.1	2.1	3.8
1189	JB3-1358	15.4	0.0	49.2	2.1	3.8
1190	JB3-1359	15.6	0.0	49.2	2.1	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1192	JB3-1362	15.7	0.0	49.2	2.1	3.7
1193	JB3-1363	16.4	0.0	49.3	2.1	3.7
1195	JB3-1366	16.9	0.0	49.3	2.0	3.6
1199	JB3-1368	17.6	0.0	49.3	1.9	3.6
1200	JB3-1369	17.6	0.0	49.3	1.9	3.6
1201	JB3-1370	17.4	0.0	49.3	2.0	3.6
1202	JB3-1371	17.5	0.0	49.3	1.9	3.6
1204	JB3-1373	17.5	0.0	49.3	1.9	3.6
1208	JB3-1377	17.5	0.0	49.3	1.9	3.6
1210	JB3-1379	17.5	0.0	49.3	1.9	3.6
1211	JB3-1380	17.5	0.0	49.3	1.9	3.6
1212	JB3-1381	17.5	0.0	49.3	1.9	3.6
1213	JB3-1382	17.5	0.0	49.3	1.9	3.6
1214	JB3-1383	17.4	0.0	49.3	2.0	3.6
1216	JB3-1385	17.4	0.0	49.3	2.0	3.6
1218	JB3-1387	16.7	0.0	49.3	2.1	3.7
1220	JB3-1389	17.1	0.0	49.3	2.0	3.6
1221	JB3-1391	17.5	0.0	49.3	2.0	3.6
1222	JB3-1392	17.4	0.0	49.3	2.0	3.6
1223	JB3-1393	16.8	0.0	49.3	2.0	3.6
1224	JB3-1394	16.7	0.0	49.3	2.1	3.7
1225	JB3-1395	16.5	0.0	49.3	2.1	3.7
1230	JB3-1401	17.1	0.0	49.3	2.0	3.6
1232	JB3-1404	16.3	0.0	49.3	2.1	3.7
1234	JB3-1405	17.1	0.0	49.3	2.0	3.6
1235	JB3-1406	16.7	0.0	49.3	2.0	3.7
1236	JB3-1407	16.7	0.0	49.3	2.0	3.7
1237	JB3-1408	16.6	0.0	49.3	2.1	3.7
1238	JB3-1409	16.7	0.0	49.3	2.1	3.7
1241	JB3-1414	15.6	0.0	49.2	2.1	3.8
1243	JB3-1416	15.2	0.0	49.2	2.2	3.8
1244	JB3-1417	15.4	0.0	49.2	2.1	3.8
1245	JB3-1418	15.8	0.0	49.2	2.1	3.7
1247	JB3-1420	16.3	0.0	49.2	2.0	3.7
1248	JB3-1421	15.8	0.0	49.1	2.0	3.7
1249	JB3-1422	15.9	0.0	49.2	2.1	3.7
1250	JB3-1424	15.6	0.0	49.1	2.0	3.8
1253	JB3-1427	15.4	0.0	49.1	2.0	3.8
1254	JB3-1428	15.4	0.0	49.1	2.0	3.8
1255	JB3-1429	15.7	0.0	49.2	2.1	3.7
1256	JB3-1430	15.7	0.0	49.2	2.1	3.7
1257	JB3-1431	15.6	0.0	49.2	2.1	3.8
1258	JB3-1432	15.6	0.0	49.2	2.1	3.8
1260	JB3-1434	15.7	0.0	49.3	2.1	3.8
1261	JB3-1435	15.7	0.0	49.2	2.1	3.7
1262	JB3-1436	15.6	0.0	49.2	2.1	3.8
1263	JB3-1437	15.6	0.0	49.3	2.1	3.8
1264	JB3-1438	15.1	0.0	49.1	2.1	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1265	JB3-1439	15.5	0.0	49.1	2.1	3.8
1266	JB3-1440	15.6	0.0	49.1	2.1	3.8
1403	JB3-1441	15.6	0.0	49.2	2.1	3.8
1404	JB3-1442	15.6	0.0	49.2	2.1	3.8
1405	JB3-1443	16.0	0.0	49.3	2.1	3.7
1406	JB3-1444	16.4	0.0	49.3	2.1	3.7
1408	JB3-1446	15.5	0.0	49.1	2.1	3.8
1409	JB3-1447	15.7	0.0	49.2	2.1	3.8
1410	JB3-1448	15.5	0.0	49.3	2.2	3.8
1411	JB3-1449	15.4	0.0	49.2	2.1	3.8
1412	JB3-1450	16.0	0.0	49.2	2.1	3.7
1413	JB3-1451	14.8	0.0	49.3	2.2	3.8
1417	JB3-1455	15.5	0.0	49.2	2.1	3.8
1418	JB3-1456	15.5	0.0	49.2	2.1	3.8
1419	JB3-1457	15.6	0.0	49.2	2.1	3.8
1420	JB3-1458	15.3	0.0	49.1	2.1	3.8
1421	JB3-1459	15.5	0.0	49.2	2.1	3.8
1424	JB3-1462	15.0	0.0	49.2	2.2	3.8
1426	JB3-1464	14.8	0.0	49.3	2.2	3.8
1427	JB3-1465	14.4	0.0	49.3	2.3	3.9
1428	JB3-1466	15.0	0.0	49.3	2.2	3.8
1429	JB3-1467	15.0	0.0	49.3	2.2	3.8
1430	JB3-1468	15.1	0.0	49.2	2.2	3.8
1431	JB3-1469	14.7	0.0	49.3	2.2	3.9
1432	JB3-1472	14.8	0.0	49.3	2.2	3.8
1433	JB3-1473	15.0	0.0	49.3	2.2	3.8
1434	JB3-1474	15.0	0.0	49.3	2.2	3.8
1435	JB3-1475	15.0	0.0	49.3	2.2	3.8
1436	JB3-1476	15.0	0.0	49.3	2.2	3.8
1437	JB3-1477	15.0	0.0	49.3	2.2	3.8
1269	JB3-1478	15.0	0.0	49.3	2.2	3.8
1270	JB3-1479	15.0	0.0	49.3	2.2	3.8
1271	JB3-1480	15.3	0.0	49.3	2.2	3.8
1272	JB3-1481	15.4	0.0	49.3	2.2	3.8
1196	JB3-1487	15.6	0.0	49.3	2.1	3.8
1197	JB3-1488	15.6	0.0	49.2	2.1	3.8
1276	JB3-1489	16.0	0.0	49.3	2.1	3.7
1277	JB3-1491	15.5	0.0	49.2	2.1	3.8
1278	JB3-1492	15.7	0.0	49.3	2.1	3.8
1279	JB3-1493	15.6	0.0	49.3	2.1	3.8
1280	JB3-1494	15.6	0.0	49.3	2.1	3.8
1281	JB3-1495	16.0	0.0	49.3	2.1	3.7
1283	JB3-1497	15.0	0.0	49.2	2.2	3.8
1284	JB3-1498	15.3	0.0	49.3	2.2	3.8
1286	JB3-1500	15.2	0.0	49.2	2.2	3.8
1287	JB3-1501	15.2	0.0	49.2	2.2	3.8
1288	JB3-1502	15.1	0.0	49.2	2.2	3.8
1289	JB3-1503	15.1	0.0	49.2	2.2	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1290	JB3-1504	15.0	0.0	49.2	2.2	3.8
1291	JB3-1505	15.0	0.0	49.3	2.2	3.8
1292	JB3-1506	15.0	0.0	49.3	2.2	3.8
1293	JB3-1507	15.2	0.0	49.3	2.2	3.8
1294	JB3-1508	15.2	0.0	49.3	2.2	3.8
1295	JB3-1509	15.2	0.0	49.3	2.2	3.8
1296	JB3-1510	15.3	0.0	49.3	2.2	3.8
1297	JB3-1511	15.4	0.0	49.3	2.2	3.8
1299	JB3-1513	15.4	0.0	49.3	2.2	3.8
1300	JB3-1514	15.3	0.0	49.3	2.2	3.8
1301	JB3-1515	15.3	0.0	49.3	2.2	3.8
1303	JB3-1517	15.2	0.0	49.3	2.2	3.8
1304	JB3-1518	15.1	0.0	49.3	2.2	3.8
1305	JB3-1519	15.0	0.0	49.3	2.2	3.8
1306	JB3-1520	15.0	0.0	49.3	2.2	3.8
1307	JB3-1521	15.0	0.0	49.3	2.2	3.8
1308	JB3-1522	15.0	0.0	49.3	2.2	3.8
1313	JB3-1531	14.8	0.0	49.3	2.3	3.8
1314	JB3-1532	14.5	0.0	49.4	2.3	3.9
1316	JB3-1534	17.2	0.0	49.3	2.0	3.6
1317	JB3-1535	17.0	0.0	49.3	2.0	3.6
1318	JB3-1536	17.0	0.0	49.3	2.0	3.6
1268	JB3-1539	17.0	0.0	49.3	2.0	3.6
1321	JB3-1541	15.6	0.0	49.3	2.2	3.8
1322	JB3-1542	15.8	0.0	49.3	2.1	3.7
1323	JB3-1543	16.0	0.0	49.3	2.1	3.7
1324	JB3-1544	15.5	0.0	49.3	2.2	3.8
1325	JB3-1545	15.3	0.0	49.3	2.2	3.8
1328	JB3-1548	15.6	0.0	49.3	2.2	3.8
1329	JB3-1549	15.3	0.0	49.3	2.2	3.8
1330	JB3-1550	15.7	0.0	49.3	2.1	3.8
1331	JB3-1551	15.7	0.0	49.3	2.1	3.8
1332	JB3-1552	15.6	0.0	49.3	2.1	3.8
1333	JB3-1553	15.4	0.0	49.3	2.2	3.8
1334	JB3-1554	15.3	0.0	49.3	2.2	3.8
1335	JB3-1555	15.3	0.0	49.3	2.2	3.8
1336	JB3-1556	15.4	0.0	49.3	2.2	3.8
1338	JB3-1558	15.7	0.0	49.3	2.1	3.8
1342	JB3-1559	15.7	0.0	49.3	2.1	3.8
1339	JB3-1560	15.6	0.0	49.3	2.1	3.8
1340	JB3-1561	15.8	0.0	49.3	2.1	3.7
1341	JB3-1562	15.8	0.0	49.3	2.1	3.7
1343	JB3-1563	15.9	0.0	49.3	2.1	3.7
1344	JB3-1564	15.5	0.0	49.3	2.2	3.8
1345	JB3-1565	15.6	0.0	49.3	2.2	3.8
1346	JB3-1566	15.6	0.0	49.3	2.2	3.8
1347	JB3-1567	15.8	0.0	49.3	2.1	3.7
1348	JB3-1568	16.0	0.0	49.3	2.1	3.7

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1349	JB3-1569	16.0	0.0	49.3	2.1	3.7
1350	JB3-1570	15.8	0.0	49.3	2.1	3.7
1351	JB3-1571	16.0	0.0	49.3	2.1	3.7
1352	JB3-1572	15.8	0.0	49.3	2.1	3.7
1353	JB3-1573	15.8	0.0	49.3	2.1	3.7
1354	JB3-1574	15.7	0.0	49.3	2.1	3.8
1355	JB3-1575	15.7	0.0	49.3	2.2	3.8
1356	JB3-1576	15.6	0.0	49.3	2.2	3.8
1357	JB3-1577	15.0	0.0	49.3	2.2	3.8
1358	JB3-1578	14.5	0.0	49.4	2.3	3.9
1359	JB3-1579	15.0	0.0	49.3	2.2	3.8
1360	JB3-1580	15.0	0.0	49.3	2.2	3.8
1361	JB3-1582	15.0	0.0	49.3	2.2	3.8
1362	JB3-1583	15.0	0.0	49.3	2.2	3.8
1363	JB3-1584	14.4	0.0	49.3	2.3	3.9
1364	JB3-1585	14.4	0.0	49.4	2.3	3.9
1365	JB3-1586	14.6	0.0	49.4	2.3	3.9
1366	JB3-1587	14.5	0.0	49.4	2.3	3.9
1369	JB3-1590	14.6	0.0	49.4	2.3	3.9
1371	JB3-1592	14.4	0.0	49.4	2.3	3.9
1373	JB3-1594	14.4	0.0	49.4	2.3	3.9
1374	JB3-1595	14.4	0.0	49.4	2.3	3.9
1375	JB3-1596	14.5	0.0	49.4	2.3	3.9
1380	JB3-1605	14.6	0.0	49.4	2.3	3.9
1381	JB3-1606	14.6	0.0	49.4	2.3	3.9
1383	JB3-1609	14.6	0.0	49.3	2.2	3.9
1384	JB3-1610	14.5	0.0	49.3	2.3	3.9
1385	JB3-1611	14.5	0.0	49.3	2.3	3.9
1386	JB3-1612	14.5	0.0	49.3	2.3	3.9
1387	JB3-1620	14.6	0.0	49.4	2.3	3.9
1388	JB3-1622	14.6	0.0	49.4	2.3	3.9
1390	JB3-1624	15.0	0.0	49.4	2.3	3.8
1391	JB3-1625	15.0	0.0	49.4	2.3	3.8
1393	JB3-1627	15.0	0.0	49.4	2.3	3.8
1394	JB3-1628	15.4	0.0	49.3	2.2	3.8
1395	JB3-1629	15.4	0.0	49.4	2.2	3.8
1396	JB3-1630	15.4	0.0	49.3	2.2	3.8
1397	JB3-1631	15.5	0.0	49.3	2.2	3.8
1398	JB3-1632	15.4	0.0	49.3	2.2	3.8
1478	JB3-1642	16.8	0.0	49.3	2.0	3.6
1479	JB3-1643	17.1	0.0	49.3	2.0	3.6
1481	JB3-1646	16.6	0.0	49.3	2.1	3.7
1484	JB3-1649	16.2	0.0	49.3	2.1	3.7
1485	JB3-1650	16.5	0.0	49.3	2.1	3.7
1486	JB3-1651	17.0	0.0	49.3	2.0	3.6
1487	JB3-1652	17.2	0.0	49.3	2.0	3.6
1489	JB3-1654	16.0	0.0	49.3	2.1	3.7
1490	JB3-1655	16.3	0.0	49.3	2.1	3.7

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1491	JB3-1656	16.1	0.0	49.3	2.1	3.7
1492	JB3-1657	16.3	0.0	49.3	2.1	3.7
1494	JB3-1659	16.5	0.0	49.3	2.1	3.7
1495	JB3-1661	15.1	0.0	49.3	2.2	3.8
1496	JB3-1662	15.8	0.0	49.3	2.2	3.7
1498	JB3-1664	15.3	0.0	49.4	2.2	3.8
1500	JB3-1666	15.3	0.0	49.3	2.2	3.8
1501	JB3-1667	16.1	0.0	49.3	2.1	3.7
1502	JB3-1668	16.1	0.0	49.3	2.1	3.7
1503	JB3-1669	16.1	0.0	49.3	2.1	3.7
1504	JB3-1670	16.1	0.0	49.3	2.1	3.7
1505	JB3-1671	16.1	0.0	49.3	2.1	3.7
1506	JB3-1672	16.1	0.0	49.3	2.1	3.7
1507	JB3-1673	16.1	0.0	49.3	2.1	3.7
1509	JB3-1675	16.1	0.0	49.3	2.1	3.7
1511	JB3-1677	16.1	0.0	49.3	2.1	3.7
1512	JB3-1678	16.2	0.0	49.3	2.1	3.7
1513	JB3-1679	16.4	0.0	49.3	2.1	3.7
1514	JB3-1680	16.6	0.0	49.3	2.1	3.7
1518	JB3-1686	16.4	0.0	49.3	2.1	3.7
1519	JB3-1687	17.0	0.0	49.3	2.0	3.6
1520	JB3-1688	16.8	0.0	49.3	2.0	3.6
1523	JB3-1691	16.6	0.0	49.3	2.0	3.7
1524	JB3-1692	16.8	0.0	49.3	2.0	3.6
1525	JB3-1693	16.4	0.0	49.3	2.1	3.7
1526	JB3-1694	16.5	0.0	49.3	2.1	3.7
1527	JB3-1695	16.6	0.0	49.3	2.0	3.7
1529	JB3-1697	16.5	0.0	49.3	2.1	3.7
1530	JB3-1698	16.5	0.0	49.3	2.1	3.7
1531	JB3-1699	16.7	0.0	49.3	2.0	3.7
1532	JB3-1700	16.2	0.0	49.3	2.1	3.7
1533	JB3-1701	16.7	0.0	49.3	2.0	3.7
1534	JB3-1702	16.7	0.0	49.3	2.0	3.7
1536	JB3-1704	16.8	0.0	49.3	2.0	3.6
1537	JB3-1705	16.8	0.0	49.3	2.0	3.6
1541	JB3-1709	16.9	0.0	49.3	2.0	3.6
1543	JB3-1711	14.7	0.0	49.3	2.3	3.9
1544	JB3-1712	14.9	0.0	49.4	2.3	3.8
1545	JB3-1714	14.7	0.0	49.4	2.3	3.9
1546	JB3-1715	14.6	0.0	49.3	2.3	3.9
1549	JB3-1723	15.1	0.0	49.3	2.2	3.8
1551	JB3-1725	15.1	0.0	49.3	2.2	3.8
1552	JB3-1726	14.6	0.0	49.3	2.3	3.9
1553	JB3-1727	14.7	0.0	49.4	2.3	3.9
1554	JB3-1728	15.0	0.0	49.4	2.3	3.8
1556	JB3-1731	14.4	0.0	49.4	2.3	3.9
1557	JB3-1732	14.4	0.0	49.4	2.3	3.9
1558	JB3-1733	14.6	0.0	49.4	2.3	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1559	JB3-1734	14.7	0.0	49.3	2.2	3.9
1562	JB3-1737	14.9	0.0	49.4	2.3	3.8
1563	JB3-1738	14.8	0.0	49.4	2.3	3.9
1564	JB3-1740	15.0	0.0	49.4	2.3	3.8
1565	JB3-1741	15.0	0.0	49.4	2.3	3.8
1566	JB3-1742	15.0	0.0	49.4	2.3	3.8
1567	JB3-1743	14.9	0.0	49.3	2.3	3.8
1568	JB3-1744	14.6	0.0	49.3	2.3	3.9
1569	JB3-1745	14.6	0.0	49.3	2.3	3.9
1570	JB3-1746	15.0	0.0	49.3	2.2	3.8
1571	JB3-1747	14.6	0.0	49.3	2.3	3.9
1573	JB3-1749	14.7	0.0	49.3	2.3	3.9
1574	JB3-1750	14.7	0.0	49.3	2.2	3.9
1576	JB3-1752	14.6	0.0	49.3	2.3	3.9
1577	JB3-1753	15.1	0.0	49.3	2.2	3.8
1578	JB3-1754	15.1	0.0	49.3	2.2	3.8
1579	JB3-1755	14.8	0.0	49.3	2.3	3.8
1580	JB3-1756	14.8	0.0	49.3	2.2	3.8
1581	JB3-1757	14.8	0.0	49.3	2.2	3.8
1583	JB3-1760	14.2	0.0	49.4	2.3	3.9
1584	JB3-1761	14.6	0.0	49.4	2.3	3.9
1585	JB3-1762	14.8	0.0	49.3	2.3	3.8
1586	JB3-1763	14.8	0.0	49.3	2.2	3.8
1587	JB3-1764	14.8	0.0	49.3	2.2	3.8
1589	JB3-1767	14.8	0.0	49.4	2.3	3.9
1590	JB3-1768	15.0	0.0	49.4	2.3	3.8
1591	JB3-1769	15.0	0.0	49.3	2.2	3.8
1592	JB3-1770	15.0	0.0	49.3	2.2	3.8
1593	JB3-1771	15.0	0.0	49.3	2.2	3.8
1594	JB3-1772	15.0	0.0	49.3	2.2	3.8
1595	JB3-1773	15.0	0.0	49.3	2.2	3.8
1599	JB3-1779	15.1	0.0	49.4	2.3	3.8
1600	JB3-1780	15.1	0.0	49.4	2.2	3.8
1601	JB3-1781	15.1	0.0	49.3	2.2	3.8
1602	JB3-1782	15.2	0.0	49.3	2.2	3.8
1603	JB3-1783	15.2	0.0	49.3	2.2	3.8
1605	JB3-1785	14.9	0.0	49.4	2.3	3.8
1606	JB3-1786	15.1	0.0	49.4	2.2	3.8
1607	JB3-1787	15.5	0.0	49.3	2.2	3.8
1609	JB3-1789	14.9	0.0	49.3	2.3	3.8
1610	JB3-1790	15.4	0.0	49.3	2.2	3.8
1611	JB3-1792	15.1	0.0	49.3	2.2	3.8
1612	JB3-1793	15.2	0.0	49.3	2.2	3.8
1613	JB3-1794	15.2	0.0	49.3	2.2	3.8
1614	JB3-1795	15.2	0.0	49.3	2.2	3.8
1615	JB3-1796	15.3	0.0	49.3	2.2	3.8
1616	JB3-1797	15.3	0.0	49.3	2.2	3.8
1617	JB3-1799	15.3	0.0	49.3	2.2	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1619	JB3-1804	16.2	0.0	49.3	2.1	3.7
1620	JB3-1805	16.3	0.0	49.3	2.1	3.7
1622	JB3-1807	15.7	0.0	49.3	2.2	3.8
1623	JB3-1810	16.2	0.0	49.3	2.1	3.7
1624	JB3-1811	15.4	0.0	49.3	2.2	3.8
1625	JB3-1812	15.6	0.0	49.3	2.1	3.8
1626	JB3-1814	15.3	0.0	49.3	2.2	3.8
1627	JB3-1815	15.4	0.0	49.3	2.2	3.8
1628	JB3-1816	15.6	0.0	49.3	2.2	3.8
1629	JB3-1817	15.8	0.0	49.3	2.1	3.7
1632	JB3-1818	15.4	0.0	49.3	2.2	3.8
1633	JB3-1819	15.6	0.0	49.3	2.1	3.8
1634	JB3-1820	15.3	0.0	49.3	2.2	3.8
1638	JB3-1827	15.8	0.0	49.3	2.2	3.7
1639	JB3-1828	16.0	0.0	49.3	2.1	3.7
1640	JB3-1832	16.0	0.0	49.3	2.1	3.7
1642	JB3-1834	16.5	0.0	49.3	2.0	3.7
1644	JB3-1836	16.6	0.0	49.3	2.1	3.7
1645	JB3-1837	16.6	0.0	49.3	2.1	3.7
1647	JB3-1839	16.5	0.0	49.3	2.1	3.7
1650	JB3-1843	17.0	0.0	49.3	2.0	3.6
1652	JB3-1846	16.7	0.0	49.3	2.0	3.7
1653	JB3-1847	16.6	0.0	49.3	2.1	3.7
1656	JB3-1850	16.6	0.0	49.3	2.0	3.7
1657	JB3-1851	16.6	0.0	49.3	2.0	3.7
1658	JB3-1852	17.0	0.0	49.2	2.0	3.6
1661	JB3-1855	16.6	0.0	49.3	2.1	3.7
1662	JB3-1856	16.6	0.0	49.3	2.0	3.7
1663	JB3-1857	17.0	0.0	49.3	2.0	3.6
1665	JB3-1859	16.6	0.0	49.2	2.0	3.7
1666	JB3-1860	16.6	0.0	49.2	2.0	3.7
1667	JB3-1861	17.0	0.0	49.2	2.0	3.6
1669	JB3-1863	15.2	0.0	49.3	2.2	3.8
1670	JB3-1864	14.6	0.0	49.3	2.2	3.9
1671	JB3-1865	14.3	0.0	49.3	2.3	3.9
1673	JB3-1867	14.6	0.0	49.3	2.2	3.9
1674	JB3-1868	14.6	0.0	49.3	2.2	3.9
1676	JB3-1870	14.6	0.0	49.3	2.2	3.9
1677	JB3-1871	14.5	0.0	49.3	2.2	3.9
1678	JB3-1872	14.7	0.0	49.3	2.2	3.9
1679	JB3-1873	14.5	0.0	49.3	2.2	3.9
1681	JB3-1875	14.6	0.0	49.3	2.2	3.9
1682	JB3-1876	14.5	0.0	49.3	2.2	3.9
1683	JB3-1877	14.5	0.0	49.3	2.2	3.9
1684	JB3-1878	14.7	0.0	49.3	2.2	3.9
1685	JB3-1879	14.5	0.0	49.3	2.2	3.9
1686	JB3-1880	14.5	0.0	49.3	2.2	3.9
1687	JB3-1881	14.5	0.0	49.3	2.2	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1689	JB3-1883	14.6	0.0	49.3	2.2	3.9
1690	JB3-1884	14.5	0.0	49.3	2.2	3.9
1691	JB3-1885	14.5	0.0	49.3	2.2	3.9
1692	JB3-1886	14.6	0.0	49.3	2.2	3.9
1693	JB3-1887	14.8	0.0	49.3	2.2	3.8
1694	JB3-1888	14.8	0.0	49.3	2.2	3.8
1695	JB3-1889	14.8	0.0	49.3	2.2	3.8
1696	JB3-1890	14.7	0.0	49.3	2.2	3.9
1697	JB3-1891	14.8	0.0	49.3	2.2	3.8
1698	JB3-1892	15.1	0.0	49.3	2.2	3.8
1699	JB3-1893	15.2	0.0	49.3	2.2	3.8
1701	JB3-1895	15.1	0.0	49.3	2.2	3.8
1702	JB3-1896	15.1	0.0	49.3	2.2	3.8
313	JB3-249	15.9	0.0	49.0	2.0	3.7
314	JB3-250	15.9	0.0	49.0	2.0	3.7
315	JB3-251	15.5	0.0	49.1	2.0	3.8
871	JB3-2551	15.0	0.0	49.4	2.3	3.8
240	JB3-262	14.7	0.0	49.3	2.2	3.9
241	JB3-263	15.2	0.0	49.3	2.2	3.8
112	JSf4-01(JE4-01)	15.0	298.0	48.7	1.8	3.8
113	JSf4-02(JE4)	15.1	0.0	48.7	1.8	3.8
203	JSf4-020(JE4)	14.2	298.0	48.6	1.9	3.9
114	JSf4-03(JE4)	15.1	0.0	48.7	1.8	3.8
174	JSf4-03(JE4-14)	13.8	966.0	48.6	1.9	3.9
2083	JSf4-04	13.5	267.0	49.4	2.4	4.0
2161	JSf4-040	13.6	0.0	49.4	2.4	4.0
2158	JSf4-05	13.4	83.0	49.5	2.5	4.0
115	JSf4-05(JE4)	15.1	0.0	48.7	1.8	3.8
470	JSf4-06	11.8	45.0	49.4	2.6	4.2
465	JSf4-07	11.8	93.0	49.3	2.6	4.2
462	JSf4-08	10.4	93.0	47.8	1.7	4.2
117	JSf4-08(JE4)	15.1	0.0	48.7	1.8	3.8
118	JSf4-09(JE4)	15.1	0.0	49.0	2.0	3.8
116	JSf4-09(JE4-07)	15.1	831.0	48.6	1.8	3.8
206	JSf4-09(JE4-09)	14.1	0.0	48.7	1.9	3.9
1770	JSf4-10(JE4)	13.3	1,129.0	48.6	2.0	4.0
202	JSf4-11(JE4)	14.3	0.0	48.7	1.9	3.9
209	JSf4-11(JE4-19)	13.2	298.0	48.9	2.1	4.0
1467	JSf4-12	13.2	298.0	48.9	2.1	4.0
501	JSf4-13	12.4	136.0	49.4	2.5	4.1
204	JSf4-13(JE4)	13.8	0.0	48.7	1.9	3.9
2086	JSf4-14	12.0	136.0	49.4	2.6	4.1
211	JSf4-1400(JE4)	14.9	0.0	48.7	1.8	3.8
2094	JSf4-15	12.4	136.0	49.6	2.7	4.1
181	JSf4-15(JE4)	13.5	0.0	49.3	2.4	4.0
2093	JSf4-16	12.3	350.0	49.5	2.6	4.1
180	JSf4-16(JE4)	13.3	0.0	48.7	2.0	4.0
119	JSf4-17(JE4-10)	15.1	545.0	49.0	2.0	3.8

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1839	JSf4-18	13.7	163.0	49.1	2.2	3.9
1818	JSf4-19	13.7	163.0	49.0	2.2	3.9
1722	JSf4-1916(JE4)	15.0	0.0	48.7	1.8	3.8
1729	JSf4-1923(JE4)	14.2	0.0	48.7	1.9	3.9
1731	JSf4-1925(JE4)	14.4	0.0	48.7	1.9	3.8
1733	JSf4-1927(JE4)	14.3	0.0	48.7	1.9	3.9
1439	JSf4-1929(JE4)	14.2	0.0	48.7	1.9	3.9
1441	JSf4-1931(JE4)	14.2	0.0	48.7	1.9	3.9
1443	JSf4-1933(JE4)	13.8	0.0	48.7	1.9	3.9
1445	JSf4-1935(JE4)	13.6	0.0	48.6	1.9	3.9
1446	JSf4-1936	13.4	0.0	48.7	2.0	3.9
1447	JSf4-1937	13.2	0.0	48.7	2.0	4.0
1449	JSf4-1939	13.2	0.0	48.7	2.0	4.0
1463	JSf4-1953	13.1	0.0	48.8	2.1	4.0
1464	JSf4-1954	12.9	0.0	48.7	2.0	4.0
1465	JSf4-1955	13.0	0.0	48.8	2.1	4.0
1469	JSf4-1959	13.1	0.0	48.8	2.1	4.0
1471	JSf4-1961	13.0	0.0	49.4	2.5	4.0
1472	JSf4-1962(JE4)	15.2	0.0	48.7	1.8	3.8
1473	JSf4-1963(JE4)	15.2	0.0	48.7	1.8	3.8
1474	JSf4-1964(JE4)	15.2	0.0	48.7	1.8	3.8
1735	JSf4-1965(JE4)	15.2	0.0	48.7	1.8	3.8
1749	JSf4-1979	13.4	0.0	48.7	2.0	3.9
1750	JSf4-1980	13.5	0.0	48.7	1.9	3.9
1751	JSf4-1981	13.4	0.0	48.7	2.0	3.9
1752	JSf4-1982	13.2	0.0	48.7	2.0	4.0
1753	JSf4-1983	13.3	0.0	48.6	2.0	4.0
1757	JSf4-1989(JE4)	13.2	0.0	48.7	2.0	4.0
1758	JSf4-1990(JE4)	13.2	0.0	48.7	2.0	4.0
1762	JSf4-1994(JE4)	13.2	0.0	48.8	2.1	4.0
1764	JSf4-1997(JE4)	14.5	0.0	48.7	1.9	3.8
1857	JSf4-20	13.0	59.0	49.2	2.4	4.0
1767	JSf4-2000(JE4)	15.1	0.0	48.7	1.8	3.8
1768	JSf4-2001(JE4)	15.1	0.0	48.6	1.8	3.8
1771	JSf4-2004	12.6	0.0	48.7	2.1	4.0
1772	JSf4-2005	13.3	0.0	48.8	2.1	4.0
1779	JSf4-2012(JE4)	14.8	0.0	48.7	1.8	3.8
1780	JSf4-2013(JE4)	15.0	0.0	48.8	1.9	3.8
1782	JSf4-2015(JE4)	15.1	0.0	48.8	1.9	3.8
1786	JSf4-2019	14.5	0.0	49.0	2.1	3.9
1792	JSf4-2026	15.1	0.0	49.1	2.1	3.8
1793	JSf4-2027	15.1	0.0	49.2	2.2	3.8
1794	JSf4-2028	15.1	0.0	49.3	2.2	3.8
1795	JSf4-2029	15.1	0.0	49.3	2.2	3.8
526	JSf4-2030(JE4)	14.4	0.0	49.0	2.1	3.9
1801	JSf4-2036	14.6	0.0	49.5	2.4	3.9
1802	JSf4-2037	14.5	0.0	49.5	2.4	3.9
1803	JSf4-2038	14.3	0.0	49.4	2.4	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1805	JSf4-2040	14.2	0.0	49.4	2.4	3.9
1808	JSf4-2043	13.6	0.0	49.2	2.3	4.0
1809	JSf4-2044	13.6	0.0	49.3	2.3	4.0
1810	JSf4-2045	13.8	0.0	49.3	2.3	3.9
1812	JSf4-2047	14.2	0.0	49.5	2.4	3.9
1817	JSf4-2053	13.7	0.0	49.1	2.2	3.9
1821	JSf4-2057(JE4)	15.1	0.0	48.9	1.9	3.8
1823	JSf4-2059	15.1	0.0	49.1	2.1	3.8
1825	JSf4-2061	15.1	0.0	49.2	2.1	3.8
1831	JSf4-2067	14.8	0.0	49.5	2.3	3.9
1832	JSf4-2068	15.1	0.0	49.4	2.3	3.8
1834	JSf4-2070	13.7	0.0	49.2	2.3	3.9
1844	JSf4-2080	14.2	0.0	49.5	2.4	3.9
1845	JSf4-2081	13.5	0.0	49.1	2.2	4.0
1852	JSf4-2089(JE4)	13.1	0.0	48.7	2.0	4.0
1855	JSf4-2092	13.6	0.0	49.1	2.2	4.0
1856	JSf4-2093	13.3	0.0	49.2	2.3	4.0
1859	JSf4-2096	13.0	0.0	49.2	2.4	4.0
1861	JSf4-2098	13.6	0.0	49.1	2.3	4.0
508	JSf4-21	13.0	357.0	49.2	2.3	4.0
515	JSf4-21(JE4)	13.6	0.0	49.0	2.1	3.9
1867	JSf4-2104	13.1	0.0	49.0	2.2	4.0
1869	JSf4-2106(JE4)	13.2	0.0	48.9	2.1	4.0
1872	JSf4-2109	13.0	0.0	49.1	2.3	4.0
1875	JSf4-2112	13.5	0.0	49.2	2.3	4.0
1882	JSf4-2119	13.3	0.0	49.3	2.4	4.0
1884	JSf4-2121	13.3	0.0	49.4	2.5	4.0
1889	JSf4-2126	13.9	0.0	49.6	2.5	4.0
1891	JSf4-2128	13.9	0.0	49.6	2.5	4.0
1894	JSf4-2131	15.2	0.0	49.6	2.4	3.8
1895	JSf4-2132	14.4	0.0	49.5	2.4	3.9
1897	JSf4-2134	15.5	0.0	49.6	2.4	3.8
1900	JSf4-2138	14.5	0.0	49.6	2.5	3.9
1902	JSf4-2140	14.2	0.0	49.6	2.5	3.9
1903	JSf4-2141	15.0	0.0	49.5	2.4	3.8
1904	JSf4-2142	15.0	0.0	49.5	2.4	3.8
1907	JSf4-2145	14.0	0.0	49.6	2.5	3.9
1909	JSf4-2147	13.9	0.0	49.6	2.5	4.0
1910	JSf4-2148	14.5	0.0	49.5	2.4	3.9
1914	JSf4-2152	15.1	0.0	49.6	2.4	3.8
1918	JSf4-2156	15.4	0.0	49.6	2.4	3.8
1922	JSf4-2160	15.0	0.0	49.6	2.4	3.9
1925	JSf4-2163	14.0	0.0	49.6	2.5	3.9
1927	JSf4-2165	14.2	0.0	49.6	2.5	3.9
1930	JSf4-2169	13.5	0.0	49.6	2.6	4.0
1935	JSf4-2175	14.3	0.0	49.7	2.5	3.9
1937	JSf4-2177	15.4	0.0	49.6	2.4	3.8
1943	JSf4-2183	14.2	0.0	49.6	2.5	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1944	JSf4-2184	13.3	0.0	49.7	2.7	4.0
1946	JSf4-2186	14.9	0.0	49.6	2.4	3.9
1954	JSf4-2194	14.5	0.0	49.6	2.5	3.9
1955	JSf4-2195	13.5	0.0	49.7	2.6	4.0
1957	JSf4-2197	14.0	0.0	49.6	2.5	4.0
1958	JSf4-2198	13.2	0.0	49.7	2.7	4.0
2183	JSf4-22	12.5	140.0	49.6	2.7	4.1
1960	JSf4-2200	15.5	0.0	49.6	2.4	3.8
1966	JSf4-2206	15.5	0.0	49.6	2.4	3.8
1976	JSf4-2216	14.9	0.0	49.6	2.4	3.9
1983	JSf4-2223	14.4	0.0	49.6	2.5	3.9
1984	JSf4-2224	14.5	0.0	49.6	2.5	3.9
1985	JSf4-2225	14.3	0.0	49.6	2.5	3.9
1986	JSf4-2226	14.0	0.0	49.6	2.5	4.0
1989	JSf4-2229	14.8	0.0	49.6	2.4	3.9
1994	JSf4-2236	14.5	0.0	49.6	2.5	3.9
1996	JSf4-2238	14.4	0.0	49.6	2.5	3.9
1997	JSf4-2240	14.2	0.0	49.6	2.5	3.9
1998	JSf4-2241	14.0	0.0	49.6	2.5	4.0
1999	JSf4-2242	13.7	0.0	49.6	2.6	4.0
2003	JSf4-2246	14.9	0.0	49.6	2.4	3.9
2007	JSf4-2250	14.9	0.0	49.6	2.4	3.9
2010	JSf4-2253	14.9	0.0	49.7	2.4	3.9
2014	JSf4-2257	13.6	0.0	49.7	2.6	4.0
2019	JSf4-2262	14.7	0.0	49.7	2.5	3.9
2023	JSf4-2266	13.5	0.0	49.7	2.6	4.0
2030	JSf4-2273	13.4	0.0	49.7	2.6	4.0
2031	JSf4-2274	14.4	0.0	49.7	2.5	3.9
2035	JSf4-2278	14.2	0.0	49.7	2.5	3.9
2039	JSf4-2282	13.3	0.0	49.7	2.6	4.0
2040	JSf4-2283	14.1	0.0	49.7	2.6	3.9
2044	JSf4-2287	13.2	0.0	49.7	2.7	4.0
2047	JSf4-2290	13.7	0.0	49.7	2.6	4.0
2049	JSf4-2292	13.5	0.0	49.7	2.6	4.0
2051	JSf4-2294	13.5	0.0	49.7	2.6	4.0
2053	JSf4-2296	13.4	0.0	49.7	2.6	4.0
2095	JSf4-23	11.8	151.0	49.6	2.8	4.2
2062	JSf4-2305	13.4	0.0	49.7	2.6	4.0
2068	JSf4-2311	13.1	0.0	49.7	2.7	4.0
2074	JSf4-2317	13.0	0.0	49.7	2.7	4.1
2076	JSf4-2319	14.5	0.0	49.6	2.5	3.9
2078	JSf4-2321	13.9	0.0	49.6	2.5	4.0
2082	JSf4-2325	13.7	0.0	49.1	2.2	3.9
2084	JSf4-2327	12.4	0.0	49.4	2.5	4.1
2085	JSf4-2328	11.8	0.0	49.4	2.6	4.2
2087	JSf4-2330	13.0	0.0	49.4	2.5	4.0
2090	JSf4-2333	12.4	0.0	49.5	2.6	4.1
2092	JSf4-2335	12.4	0.0	49.5	2.6	4.1

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2097	JSf4-2340	12.4	0.0	49.6	2.7	4.1
2101	JSf4-2344	11.9	0.0	49.6	2.7	4.2
2103	JSf4-2346	12.1	0.0	49.5	2.6	4.1
2107	JSf4-2350	12.3	0.0	49.6	2.7	4.1
2109	JSf4-2352	12.0	0.0	49.4	2.6	4.1
2113	JSf4-2356	11.8	0.0	49.5	2.6	4.2
2120	JSf4-2363	12.0	0.0	49.5	2.6	4.1
2127	JSf4-2370	13.6	0.0	49.3	2.4	4.0
2128	JSf4-2371	13.6	0.0	49.3	2.4	4.0
2129	JSf4-2372	13.0	0.0	49.4	2.5	4.0
2137	JSf4-2380	12.2	0.0	49.4	2.6	4.1
2139	JSf4-2382	12.3	0.0	49.5	2.6	4.1
2140	JSf4-2383	11.8	0.0	49.6	2.7	4.2
2143	JSf4-2386	12.4	0.0	49.6	2.6	4.1
2147	JSf4-2390	12.3	0.0	49.6	2.7	4.1
2151	JSf4-2394	12.4	0.0	49.6	2.7	4.1
2155	JSf4-2398	12.4	0.0	49.5	2.6	4.1
2156	JSf4-2399	13.4	0.0	49.5	2.5	4.0
2157	JSf4-2400	13.5	0.0	49.5	2.5	4.0
2160	JSf4-2403	13.4	0.0	49.4	2.5	4.0
2167	JSf4-2413	11.8	0.0	49.6	2.7	4.2
2170	JSf4-2416	13.1	0.0	48.9	2.2	4.0
2171	JSf4-2417	12.3	0.0	49.3	2.5	4.1
2172	JSf4-2418	12.0	0.0	49.5	2.6	4.1
2182	JSf4-2428	12.0	0.0	49.6	2.7	4.2
2186	JSf4-2432	13.3	0.0	49.5	2.5	4.0
2188	JSf4-2434	12.9	0.0	49.6	2.6	4.1
2199	JSf4-2445	12.9	0.0	49.2	2.4	4.0
2202	JSf4-2448	13.0	0.0	49.1	2.3	4.0
2206	JSf4-2452	11.3	0.0	49.6	2.8	4.2
2207	JSf4-2453	12.1	0.0	49.5	2.6	4.1
2213	JSf4-2462	12.6	0.0	49.6	2.6	4.1
2214	JSf4-2464	12.6	0.0	49.6	2.6	4.1
2220	JSf4-2470	12.4	0.0	49.3	2.5	4.1
2224	JSf4-2474	13.3	0.0	49.6	2.5	4.0
2225	JSf4-2475	12.8	0.0	49.4	2.5	4.1
2231	JSf4-2481	12.3	0.0	49.4	2.5	4.1
2235	JSf4-2485	12.6	0.0	49.4	2.5	4.1
2241	JSf4-2491	12.2	0.0	49.4	2.6	4.1
2245	JSf4-2495	13.2	0.0	48.9	2.1	4.0
2249	JSf4-2499(JE4)	13.8	0.0	48.6	1.9	3.9
214	JSf4-25	15.1	589.0	49.5	2.3	3.8
120	JSf4-2500	14.9	0.0	49.6	2.4	3.9
2255	JSf4-2505(JE4)	14.0	0.0	48.6	1.9	3.9
2259	JSf4-2509(JE4)	14.0	0.0	48.8	2.0	3.9
2261	JSf4-2511(JE4)	13.7	0.0	49.1	2.2	3.9
2267	JSf4-2517(JE4)	15.2	0.0	48.7	1.8	3.8
2269	JSf4-2519(JE4)	13.6	0.0	48.7	1.9	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2270	JSf4-2520(JE4)	14.2	0.0	48.7	1.9	3.9
2272	JSf4-2522	13.0	0.0	48.9	2.2	4.0
2274	JSf4-2524	13.2	0.0	48.7	2.0	4.0
2282	JSf4-2532	13.4	0.0	49.5	2.5	4.0
908	JSf4-2589	13.9	0.0	49.6	2.5	4.0
1804	JSf4-26	14.3	208.0	49.4	2.4	3.9
1886	JSf4-27	14.0	208.0	49.6	2.5	3.9
1932	JSf4-2700	14.2	0.0	49.5	2.4	3.9
1885	JSf4-28	14.0	237.0	49.7	2.5	4.0
2187	JSf4-29	13.3	29.0	49.5	2.5	4.0
486	JSf4-30	14.9	45.0	49.6	2.4	3.9
487	JSf4-31	14.9	45.0	49.6	2.4	3.9
490	JSf4-32	14.0	45.0	49.7	2.6	4.0
496	JSf4-33	13.5	45.0	49.7	2.6	4.0
444	JSf4-333	12.1	0.0	49.5	2.6	4.1
446	JSf4-335	10.7	0.0	48.7	2.2	4.2
448	JSf4-337	11.1	0.0	49.1	2.5	4.2
456	JSf4-339	12.3	0.0	49.5	2.6	4.1
1981	JSf4-34	14.8	45.0	49.6	2.4	3.9
1982	JSf4-35	13.7	22.0	49.6	2.6	4.0
461	JSf4-350	11.1	0.0	48.7	2.2	4.2
488	JSf4-36	13.7	22.0	49.6	2.6	4.0
491	JSf4-37	13.0	45.0	49.7	2.7	4.1
483	JSf4-375	14.9	0.0	49.6	2.4	3.9
497	JSf4-387	12.8	0.0	49.7	2.7	4.1
500	JSf4-391(JE4)	13.7	0.0	49.1	2.2	3.9
503	JSf4-394	12.4	0.0	49.5	2.6	4.1
505	JSf4-396	13.4	0.0	49.4	2.5	4.0
507	JSf4-398	12.2	0.0	49.6	2.7	4.1
1811	JSf4-4444	14.3	0.0	49.4	2.3	3.9
463	JSf4-50	10.7	24.0	48.8	2.3	4.2
208	JSf44-150(JE4)	13.1	0.0	48.7	2.0	4.0
994	JB4-1133	13.1	0.0	49.2	2.3	4.0
1170	JB4-1339	15.1	0.0	49.1	2.1	3.8
1215	JB4-1384	16.0	0.0	49.3	2.1	3.7
1231	JB4-1403	16.6	0.0	49.3	2.1	3.7
1724	JB4-1918	14.3	0.0	48.7	1.9	3.9
1725	JB4-1919	13.5	0.0	48.7	2.0	3.9
1726	JB4-1920	13.7	0.0	48.7	1.9	3.9
1727	JB4-1921	13.4	0.0	48.7	2.0	3.9
1448	JB4-1938	13.0	0.0	48.7	2.0	4.0
1450	JB4-1940	13.1	0.0	48.7	2.0	4.0
1451	JB4-1941	13.2	0.0	48.7	2.0	4.0
1452	JB4-1942	13.1	0.0	48.7	2.0	4.0
1453	JB4-1943	13.1	0.0	48.7	2.0	4.0
1456	JB4-1946	13.1	0.0	48.7	2.0	4.0
1457	JB4-1947	13.2	0.0	48.7	2.0	4.0
1458	JB4-1948	13.3	0.0	48.7	2.0	4.0

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1459	JB4-1949	13.5	0.0	48.7	2.0	3.9
1460	JB4-1950	13.1	0.0	48.8	2.1	4.0
1466	JB4-1956	12.9	0.0	48.9	2.1	4.0
1470	JB4-1960	12.9	0.0	49.1	2.3	4.0
1736	JB4-1966	14.3	0.0	48.7	1.9	3.9
1738	JB4-1968	14.3	0.0	48.7	1.9	3.9
1739	JB4-1969	14.3	0.0	48.7	1.9	3.9
1740	JB4-1970	14.3	0.0	48.7	1.9	3.9
1741	JB4-1971	13.8	0.0	48.7	1.9	3.9
1742	JB4-1972	13.7	0.0	48.7	1.9	3.9
1743	JB4-1973	14.0	0.0	48.7	1.9	3.9
1744	JB4-1974	14.3	0.0	48.7	1.9	3.9
1745	JB4-1975	14.3	0.0	48.7	1.9	3.9
1746	JB4-1976	13.5	0.0	48.7	1.9	3.9
1747	JB4-1977	13.4	0.0	48.7	2.0	3.9
1748	JB4-1978	13.4	0.0	48.7	2.0	3.9
1754	JB4-1984	13.8	0.0	48.7	1.9	3.9
1755	JB4-1985	13.6	0.0	48.7	1.9	3.9
1756	JB4-1986	13.4	0.0	48.7	2.0	3.9
1759	JB4-1991	14.9	0.0	48.7	1.8	3.8
1760	JB4-1992	14.8	0.0	48.7	1.8	3.8
1761	JB4-1993	13.3	0.0	48.7	2.0	4.0
1763	JB4-1995	12.7	0.0	48.9	2.2	4.0
1765	JB4-1998	14.4	0.0	48.7	1.9	3.8
1766	JB4-1999	13.4	0.0	48.7	2.0	3.9
1769	JB4-2002	14.4	0.0	48.7	1.9	3.8
1773	JB4-2006	12.7	0.0	49.0	2.2	4.0
1774	JB4-2007	13.6	0.0	48.8	2.0	3.9
1775	JB4-2008	13.9	0.0	48.7	2.0	3.9
1776	JB4-2009	14.2	0.0	48.7	1.9	3.9
1777	JB4-2010	14.8	0.0	48.7	1.8	3.8
1778	JB4-2011	14.9	0.0	48.7	1.8	3.8
1783	JB4-2016	14.5	0.0	48.8	2.0	3.8
1787	JB4-2020	14.5	0.0	49.1	2.2	3.9
1788	JB4-2021	14.5	0.0	49.2	2.2	3.9
1789	JB4-2022	14.5	0.0	49.2	2.2	3.9
1790	JB4-2023	14.5	0.0	49.3	2.3	3.9
1791	JB4-2024	14.5	0.0	49.3	2.3	3.9
1806	JB4-2041	14.3	0.0	49.3	2.3	3.9
1807	JB4-2042	14.4	0.0	49.3	2.3	3.9
1813	JB4-2049	13.8	0.0	49.4	2.4	4.0
1814	JB4-2050	13.8	0.0	49.3	2.3	3.9
1822	JB4-2058	14.5	0.0	48.9	2.0	3.9
1824	JB4-2060	14.5	0.0	49.1	2.1	3.9
1826	JB4-2062	14.5	0.0	49.2	2.2	3.9
1827	JB4-2063	14.6	0.0	49.2	2.2	3.9
1828	JB4-2064	14.6	0.0	49.3	2.2	3.9
1829	JB4-2065	14.6	0.0	49.3	2.3	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1830	JB4-2066	14.6	0.0	49.4	2.3	3.9
1833	JB4-2069	14.6	0.0	49.4	2.3	3.9
1835	JB4-2071	13.7	0.0	49.1	2.2	3.9
1836	JB4-2072	13.7	0.0	49.2	2.2	3.9
1837	JB4-2073	14.0	0.0	49.2	2.3	3.9
1838	JB4-2074	13.7	0.0	49.3	2.4	4.0
1840	JB4-2076	13.7	0.0	49.2	2.3	3.9
1841	JB4-2077	13.4	0.0	49.2	2.3	4.0
1842	JB4-2078	13.7	0.0	49.1	2.2	3.9
1843	JB4-2079	14.3	0.0	49.4	2.3	3.9
1846	JB4-2082	13.1	0.0	48.7	2.0	4.0
1847	JB4-2083	13.1	0.0	48.7	2.0	4.0
1848	JB4-2084	13.3	0.0	48.7	2.0	4.0
1849	JB4-2085	13.2	0.0	48.8	2.0	4.0
1850	JB4-2086	13.3	0.0	48.8	2.0	4.0
1851	JB4-2087	13.3	0.0	48.8	2.0	4.0
1854	JB4-2091	12.6	0.0	49.0	2.3	4.0
1858	JB4-2095	12.7	0.0	49.0	2.3	4.0
1860	JB4-2097	12.7	0.0	49.1	2.3	4.0
1862	JB4-2099	13.2	0.0	49.1	2.2	4.0
1863	JB4-2100	13.2	0.0	49.1	2.3	4.0
1864	JB4-2101	12.8	0.0	49.0	2.2	4.0
1865	JB4-2102	12.8	0.0	49.1	2.3	4.0
1866	JB4-2103	12.8	0.0	49.0	2.2	4.0
1868	JB4-2105	12.8	0.0	48.9	2.2	4.0
1870	JB4-2107	12.7	0.0	49.1	2.3	4.0
1871	JB4-2108	12.8	0.0	49.1	2.3	4.0
1873	JB4-2110	12.9	0.0	48.8	2.1	4.0
1874	JB4-2111	13.3	0.0	49.1	2.3	4.0
1876	JB4-2113	13.5	0.0	49.4	2.4	4.0
1877	JB4-2114	14.0	0.0	49.6	2.5	3.9
1878	JB4-2115	13.6	0.0	49.3	2.3	4.0
1879	JB4-2116	13.6	0.0	49.2	2.3	4.0
1880	JB4-2117	13.5	0.0	49.3	2.3	4.0
1881	JB4-2118	13.3	0.0	49.3	2.4	4.0
1883	JB4-2120	13.3	0.0	49.4	2.5	4.0
1887	JB4-2124	14.0	0.0	49.3	2.3	3.9
1888	JB4-2125	14.0	0.0	49.4	2.4	3.9
1890	JB4-2127	13.5	0.0	49.6	2.5	4.0
1892	JB4-2129	14.0	0.0	49.4	2.4	3.9
1893	JB4-2130	14.0	0.0	49.4	2.4	3.9
1896	JB4-2133	14.3	0.0	49.6	2.5	3.9
1898	JB4-2135	14.3	0.0	49.6	2.5	3.9
492	JB4-2136	13.9	0.0	49.6	2.5	4.0
1899	JB4-2137	14.7	0.0	49.6	2.4	3.9
1901	JB4-2139	13.9	0.0	49.5	2.5	4.0
1905	JB4-2143	13.9	0.0	49.5	2.5	4.0
1906	JB4-2144	14.1	0.0	49.5	2.4	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1908	JB4-2146	13.6	0.0	49.6	2.5	4.0
1911	JB4-2149	13.9	0.0	49.5	2.5	4.0
1912	JB4-2150	14.0	0.0	49.5	2.5	3.9
1913	JB4-2151	14.5	0.0	49.6	2.4	3.9
1915	JB4-2153	14.3	0.0	49.6	2.5	3.9
1916	JB4-2154	14.2	0.0	49.5	2.4	3.9
1917	JB4-2155	14.6	0.0	49.6	2.4	3.9
1919	JB4-2157	13.8	0.0	49.5	2.5	4.0
1920	JB4-2158	14.2	0.0	49.6	2.5	3.9
1921	JB4-2159	14.6	0.0	49.6	2.5	3.9
1923	JB4-2161	14.9	0.0	49.6	2.4	3.9
1924	JB4-2162	13.6	0.0	49.6	2.5	4.0
1926	JB4-2164	14.2	0.0	49.6	2.5	3.9
1928	JB4-2166	14.2	0.0	49.6	2.5	3.9
1929	JB4-2168	13.6	0.0	49.6	2.6	4.0
1931	JB4-2170	14.0	0.0	49.7	2.5	4.0
1933	JB4-2172	14.3	0.0	49.7	2.5	3.9
1934	JB4-2173	14.2	0.0	49.7	2.5	3.9
1936	JB4-2176	14.7	0.0	49.6	2.4	3.9
1938	JB4-2178	14.4	0.0	49.6	2.5	3.9
1939	JB4-2179	14.4	0.0	49.6	2.5	3.9
1940	JB4-2180	13.9	0.0	49.6	2.5	4.0
1941	JB4-2181	14.0	0.0	49.6	2.5	3.9
1942	JB4-2182	13.9	0.0	49.6	2.5	4.0
1945	JB4-2185	14.4	0.0	49.6	2.5	3.9
1947	JB4-2187	14.5	0.0	49.6	2.5	3.9
1948	JB4-2188	14.5	0.0	49.6	2.5	3.9
1949	JB4-2189	14.4	0.0	49.6	2.5	3.9
1950	JB4-2190	13.9	0.0	49.6	2.5	4.0
1951	JB4-2191	14.6	0.0	49.6	2.4	3.9
1952	JB4-2192	14.5	0.0	49.6	2.5	3.9
1953	JB4-2193	14.5	0.0	49.6	2.5	3.9
1956	JB4-2196	14.2	0.0	49.6	2.5	3.9
1959	JB4-2199	15.0	0.0	49.6	2.4	3.8
1961	JB4-2201	14.5	0.0	49.6	2.5	3.9
1962	JB4-2202	14.2	0.0	49.6	2.5	3.9
1963	JB4-2203	14.0	0.0	49.6	2.5	4.0
1964	JB4-2204	14.1	0.0	49.6	2.5	3.9
1965	JB4-2205	15.0	0.0	49.6	2.4	3.8
1967	JB4-2207	14.5	0.0	49.6	2.5	3.9
1968	JB4-2208	14.2	0.0	49.6	2.5	3.9
1969	JB4-2209	14.0	0.0	49.6	2.5	4.0
1970	JB4-2210	14.0	0.0	49.6	2.5	4.0
1971	JB4-2211	14.5	0.0	49.6	2.5	3.9
1972	JB4-2212	14.2	0.0	49.6	2.5	3.9
1973	JB4-2213	14.0	0.0	49.6	2.5	4.0
1974	JB4-2214	14.3	0.0	49.6	2.5	3.9
1975	JB4-2215	14.5	0.0	49.6	2.5	3.9

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
1977	JB4-2217	14.5	0.0	49.6	2.5	3.9
1978	JB4-2218	14.2	0.0	49.6	2.5	3.9
1979	JB4-2219	14.0	0.0	49.6	2.5	4.0
1980	JB4-2220	13.7	0.0	49.6	2.6	4.0
1987	JB4-2227	14.3	0.0	49.6	2.5	3.9
1988	JB4-2228	14.2	0.0	49.6	2.5	3.9
1990	JB4-2230	14.4	0.0	49.6	2.5	3.9
1991	JB4-2231	14.5	0.0	49.6	2.5	3.9
1992	JB4-2234	14.5	0.0	49.6	2.5	3.9
1993	JB4-2235	14.5	0.0	49.6	2.5	3.9
1995	JB4-2237	14.4	0.0	49.6	2.5	3.9
2000	JB4-2243	14.2	0.0	49.6	2.5	3.9
2001	JB4-2244	14.2	0.0	49.6	2.5	3.9
2002	JB4-2245	14.5	0.0	49.6	2.5	3.9
2004	JB4-2247	14.2	0.0	49.6	2.5	3.9
2005	JB4-2248	14.2	0.0	49.6	2.5	3.9
2006	JB4-2249	14.5	0.0	49.6	2.5	3.9
2008	JB4-2251	14.2	0.0	49.6	2.5	3.9
2009	JB4-2252	14.5	0.0	49.7	2.5	3.9
2011	JB4-2254	14.5	0.0	49.7	2.5	3.9
2012	JB4-2255	13.5	0.0	49.7	2.6	4.0
2013	JB4-2256	13.6	0.0	49.7	2.6	4.0
2015	JB4-2258	14.5	0.0	49.6	2.5	3.9
2016	JB4-2259	14.0	0.0	49.7	2.5	4.0
2017	JB4-2260	14.2	0.0	49.7	2.5	3.9
2018	JB4-2261	14.3	0.0	49.7	2.5	3.9
2020	JB4-2263	14.4	0.0	49.7	2.5	3.9
2021	JB4-2264	13.7	0.0	49.7	2.6	4.0
2022	JB4-2265	13.7	0.0	49.7	2.6	4.0
2024	JB4-2267	13.9	0.0	49.7	2.6	4.0
2025	JB4-2268	14.2	0.0	49.7	2.5	3.9
2026	JB4-2269	14.3	0.0	49.7	2.5	3.9
2027	JB4-2270	14.0	0.0	49.7	2.6	4.0
2028	JB4-2271	13.7	0.0	49.7	2.6	4.0
2029	JB4-2272	13.5	0.0	49.7	2.6	4.0
2032	JB4-2275	14.2	0.0	49.7	2.5	3.9
2033	JB4-2276	13.7	0.0	49.7	2.6	4.0
2034	JB4-2277	13.6	0.0	49.7	2.6	4.0
2036	JB4-2279	14.0	0.0	49.7	2.6	4.0
2037	JB4-2280	13.7	0.0	49.7	2.6	4.0
2038	JB4-2281	13.7	0.0	49.7	2.6	4.0
2041	JB4-2284	14.0	0.0	49.7	2.6	4.0
2042	JB4-2285	13.7	0.0	49.7	2.6	4.0
2043	JB4-2286	13.7	0.0	49.7	2.6	4.0
2045	JB4-2288	14.0	0.0	49.7	2.5	4.0
2046	JB4-2289	14.0	0.0	49.7	2.5	4.0
2048	JB4-2291	13.9	0.0	49.5	2.5	4.0
2050	JB4-2293	13.0	0.0	49.7	2.7	4.1

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2052	JB4-2295	13.2	0.0	49.7	2.6	4.0
2054	JB4-2297	13.2	0.0	49.7	2.6	4.0
2055	JB4-2298	13.2	0.0	49.6	2.6	4.0
2056	JB4-2299	13.2	0.0	49.6	2.6	4.0
2057	JB4-2300	13.7	0.0	49.6	2.6	4.0
2058	JB4-2301	13.5	0.0	49.6	2.6	4.0
2059	JB4-2302	13.4	0.0	49.7	2.6	4.0
2060	JB4-2303	13.4	0.0	49.7	2.6	4.0
2061	JB4-2304	13.4	0.0	49.7	2.6	4.0
2063	JB4-2306	13.6	0.0	49.6	2.6	4.0
2064	JB4-2307	13.2	0.0	49.6	2.6	4.0
2065	JB4-2308	13.2	0.0	49.7	2.6	4.0
2066	JB4-2309	13.2	0.0	49.7	2.6	4.0
2067	JB4-2310	13.3	0.0	49.7	2.6	4.0
2069	JB4-2312	13.4	0.0	49.6	2.6	4.0
2070	JB4-2313	13.2	0.0	49.6	2.6	4.0
2071	JB4-2314	13.2	0.0	49.7	2.6	4.0
2072	JB4-2315	13.2	0.0	49.7	2.6	4.0
2073	JB4-2316	13.3	0.0	49.7	2.6	4.0
2075	JB4-2318	13.9	0.0	49.7	2.6	4.0
2077	JB4-2320	13.6	0.0	49.6	2.6	4.0
2079	JB4-2322	14.2	0.0	49.6	2.5	3.9
2080	JB4-2323	14.2	0.0	49.6	2.5	3.9
2081	JB4-2324	14.3	0.0	49.6	2.5	3.9
2088	JB4-2331	12.3	0.0	49.4	2.6	4.1
2089	JB4-2332	12.0	0.0	49.5	2.6	4.1
2091	JB4-2334	11.9	0.0	49.5	2.6	4.1
2096	JB4-2339	12.2	0.0	49.5	2.6	4.1
2098	JB4-2341	12.2	0.0	49.5	2.7	4.1
2099	JB4-2342	11.9	0.0	49.6	2.7	4.2
2100	JB4-2343	11.9	0.0	49.5	2.7	4.2
2102	JB4-2345	12.0	0.0	49.5	2.6	4.1
2104	JB4-2347	12.2	0.0	49.5	2.6	4.1
2105	JB4-2348	12.4	0.0	49.5	2.6	4.1
2106	JB4-2349	12.3	0.0	49.5	2.6	4.1
2108	JB4-2351	12.5	0.0	49.5	2.6	4.1
2110	JB4-2353	12.3	0.0	49.4	2.6	4.1
2111	JB4-2354	11.9	0.0	49.4	2.6	4.1
2112	JB4-2355	11.8	0.0	49.4	2.6	4.2
2114	JB4-2357	12.3	0.0	49.5	2.6	4.1
2115	JB4-2358	12.3	0.0	49.4	2.6	4.1
2116	JB4-2359	12.3	0.0	49.5	2.6	4.1
2117	JB4-2360	12.1	0.0	49.5	2.6	4.1
2118	JB4-2361	12.2	0.0	49.5	2.6	4.1
2119	JB4-2362	12.3	0.0	49.5	2.6	4.1
2121	JB4-2364	12.5	0.0	49.4	2.5	4.1
2122	JB4-2365	12.5	0.0	49.3	2.5	4.1
2123	JB4-2366	12.8	0.0	49.3	2.5	4.0

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2124	JB4-2367	12.9	0.0	49.2	2.4	4.0
2125	JB4-2368	13.0	0.0	49.2	2.4	4.0
2126	JB4-2369	12.8	0.0	49.3	2.5	4.0
2130	JB4-2373	12.8	0.0	49.3	2.5	4.1
2131	JB4-2374	12.2	0.0	49.4	2.6	4.1
2132	JB4-2375	11.9	0.0	49.4	2.6	4.1
2133	JB4-2376	12.0	0.0	49.4	2.6	4.1
2134	JB4-2377	13.2	0.0	49.4	2.4	4.0
2135	JB4-2378	13.2	0.0	49.4	2.4	4.0
2136	JB4-2379	12.4	0.0	49.5	2.6	4.1
2138	JB4-2381	12.0	0.0	49.5	2.6	4.1
2141	JB4-2384	11.9	0.0	49.6	2.7	4.2
2142	JB4-2385	12.3	0.0	49.6	2.7	4.1
2144	JB4-2387	12.3	0.0	49.5	2.6	4.1
2145	JB4-2388	11.9	0.0	49.5	2.7	4.2
2146	JB4-2389	12.3	0.0	49.5	2.6	4.1
2148	JB4-2391	12.2	0.0	49.6	2.7	4.1
2149	JB4-2392	12.2	0.0	49.6	2.7	4.1
2150	JB4-2393	12.3	0.0	49.6	2.7	4.1
2152	JB4-2395	11.4	0.0	49.5	2.7	4.2
2153	JB4-2396	12.0	0.0	49.5	2.6	4.1
2154	JB4-2397	11.6	0.0	49.5	2.7	4.2
2159	JB4-2402	12.2	0.0	49.5	2.6	4.1
2162	JB4-2405	12.4	0.0	49.2	2.4	4.1
2163	JB4-2406	11.9	0.0	49.5	2.6	4.1
2164	JB4-2407	12.9	0.0	49.1	2.3	4.0
2165	JB4-2409	12.0	0.0	49.5	2.6	4.1
2166	JB4-2412	11.8	0.0	49.5	2.6	4.2
2168	JB4-2414	12.9	0.0	49.2	2.3	4.0
2169	JB4-2415	13.2	0.0	48.9	2.1	4.0
2173	JB4-2419	12.5	0.0	49.2	2.4	4.1
2174	JB4-2420	12.0	0.0	49.5	2.6	4.1
2175	JB4-2421	11.9	0.0	49.5	2.7	4.2
2176	JB4-2422	12.2	0.0	49.4	2.6	4.1
2177	JB4-2423	13.0	0.0	49.1	2.3	4.0
2178	JB4-2424	12.0	0.0	49.4	2.6	4.1
2179	JB4-2425	12.0	0.0	49.4	2.6	4.1
2180	JB4-2426	11.0	0.0	49.5	2.8	4.2
2181	JB4-2427	11.2	0.0	49.6	2.8	4.2
2184	JB4-2430	11.3	0.0	49.6	2.8	4.2
2185	JB4-2431	12.4	0.0	49.2	2.4	4.1
2189	JB4-2435	12.3	0.0	49.3	2.5	4.1
2190	JB4-2436	12.0	0.0	49.3	2.5	4.1
2191	JB4-2437	11.9	0.0	49.4	2.6	4.1
2192	JB4-2438	12.5	0.0	49.5	2.6	4.1
2193	JB4-2439	11.9	0.0	49.5	2.7	4.2
2194	JB4-2440	11.7	0.0	49.5	2.7	4.2
2195	JB4-2441	13.1	0.0	49.2	2.3	4.0

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2196	JB4-2442	12.8	0.0	49.2	2.3	4.0
2197	JB4-2443	12.9	0.0	49.1	2.3	4.0
2198	JB4-2444	12.9	0.0	49.2	2.3	4.0
2200	JB4-2446	13.0	0.0	49.0	2.2	4.0
2201	JB4-2447	12.9	0.0	49.2	2.3	4.0
2203	JB4-2449	11.9	0.0	49.5	2.7	4.2
2204	JB4-2450	11.8	0.0	49.5	2.7	4.2
2205	JB4-2451	11.6	0.0	49.6	2.7	4.2
2208	JB4-2454	11.8	0.0	49.5	2.7	4.2
2209	JB4-2455	11.4	0.0	49.5	2.7	4.2
2210	JB4-2456	11.7	0.0	49.5	2.7	4.2
2211	JB4-2457	11.9	0.0	49.5	2.6	4.1
2212	JB4-2458	11.5	0.0	49.6	2.8	4.2
2215	JB4-2465	12.7	0.0	49.3	2.4	4.1
2216	JB4-2466	12.5	0.0	49.3	2.5	4.1
2217	JB4-2467	12.2	0.0	49.3	2.5	4.1
2218	JB4-2468	12.2	0.0	49.3	2.5	4.1
2219	JB4-2469	12.2	0.0	49.3	2.5	4.1
2221	JB4-2471	12.2	0.0	49.4	2.5	4.1
2222	JB4-2472	12.2	0.0	49.4	2.6	4.1
2223	JB4-2473	12.6	0.0	49.5	2.6	4.1
2226	JB4-2476	12.8	0.0	49.4	2.5	4.1
2227	JB4-2477	12.8	0.0	49.4	2.5	4.1
2228	JB4-2478	12.0	0.0	49.4	2.5	4.1
2229	JB4-2479	12.0	0.0	49.4	2.5	4.1
2230	JB4-2480	12.4	0.0	49.4	2.5	4.1
2232	JB4-2482	12.2	0.0	49.4	2.6	4.1
2233	JB4-2483	12.2	0.0	49.5	2.6	4.1
2234	JB4-2484	12.8	0.0	49.5	2.6	4.1
2236	JB4-2486	12.4	0.0	49.4	2.5	4.1
2237	JB4-2487	12.2	0.0	49.4	2.6	4.1
2238	JB4-2488	12.2	0.0	49.4	2.6	4.1
2239	JB4-2489	12.4	0.0	49.4	2.5	4.1
2240	JB4-2490	12.4	0.0	49.4	2.5	4.1
2242	JB4-2492	12.4	0.0	49.4	2.6	4.1
2243	JB4-2493	12.4	0.0	49.4	2.5	4.1
2244	JB4-2494	12.6	0.0	48.9	2.2	4.0
2246	JB4-2496	13.1	0.0	48.9	2.1	4.0
2247	JB4-2497	12.9	0.0	49.0	2.2	4.0
2250	JB4-2500	13.3	0.0	48.7	2.0	4.0
2251	JB4-2501	13.3	0.0	48.7	2.0	4.0
2252	JB4-2502	13.0	0.0	48.7	2.0	4.0
2253	JB4-2503	13.0	0.0	48.8	2.1	4.0
2254	JB4-2504	13.5	0.0	49.0	2.1	4.0
2256	JB4-2506	13.9	0.0	48.6	1.9	3.9
2257	JB4-2507	13.7	0.0	48.8	2.0	3.9
2258	JB4-2508	13.6	0.0	48.8	2.0	3.9
2260	JB4-2510	13.4	0.0	48.8	2.1	4.0

ID	Label	Elevation (m)	Water Demand (m ³ /d)	Hydraulic Grade (m)	Pressure	
					Minimum (kg/cm ²)	Maximum (kg/cm ²)
2262	JB4-2512	12.5	0.0	49.4	2.5	4.1
2263	JB4-2513	13.5	0.0	48.7	2.0	3.9
2264	JB4-2514	13.5	0.0	48.7	2.0	3.9
2265	JB4-2515	13.8	0.0	48.7	1.9	3.9
2266	JB4-2516	14.0	0.0	48.7	1.9	3.9
2268	JB4-2518	14.0	0.0	48.7	1.9	3.9
2271	JB4-2521	13.8	0.0	48.9	2.0	3.9
2273	JB4-2523	13.2	0.0	49.0	2.2	4.0
2275	JB4-2525	13.2	0.0	48.7	2.0	4.0
2276	JB4-2526	13.1	0.0	48.8	2.1	4.0
2277	JB4-2527	12.9	0.0	48.8	2.1	4.0
2278	JB4-2528	12.0	0.0	49.4	2.6	4.1
2279	JB4-2529	12.5	0.0	49.4	2.5	4.1
2280	JB4-2530	13.3	0.0	49.4	2.4	4.0
2281	JB4-2531	13.3	0.0	49.4	2.4	4.0
2283	JB4-2533	12.3	0.0	49.5	2.6	4.1
2284	JB4-2534	12.0	0.0	49.5	2.6	4.1
2285	JB4-2535	12.3	0.0	49.5	2.6	4.1
2286	JB4-2536	12.4	0.0	49.5	2.6	4.1
867	JB4-2553	12.4	0.0	49.5	2.6	4.1
868	JB4-2554	11.9	0.0	49.6	2.7	4.2
458	JB4-2588	12.0	0.0	49.2	2.5	4.1
502	JB4-393	12.4	0.0	49.4	2.5	4.1
506	JB4-397	12.3	0.0	49.5	2.6	4.1
516	JB4-414	13.5	0.0	49.1	2.3	4.0
517	JB4-415	13.7	0.0	49.2	2.3	4.0
518	JB4-416	14.0	0.0	49.4	2.4	3.9
425	JB4-535	15.6	0.0	49.3	2.2	3.8
622	JB4-637	16.2	0.0	49.3	2.1	3.7
623	JB4-639	16.2	0.0	49.3	2.1	3.7
624	JB4-640	16.8	0.0	49.3	2.1	3.6
650	JB4-667	16.3	0.0	49.3	2.1	3.7
663	JB4-680	16.3	0.0	49.3	2.1	3.7
671	JB4-689	16.2	0.0	49.3	2.1	3.7
688	JB4-706	16.5	0.0	49.3	2.1	3.7
799	JB4-790	17.3	0.0	49.3	2.0	3.6
904	JB4-994	14.5	0.0	49.6	2.5	3.9
1737	JB41967	14.0	0.0	48.7	1.9	3.9