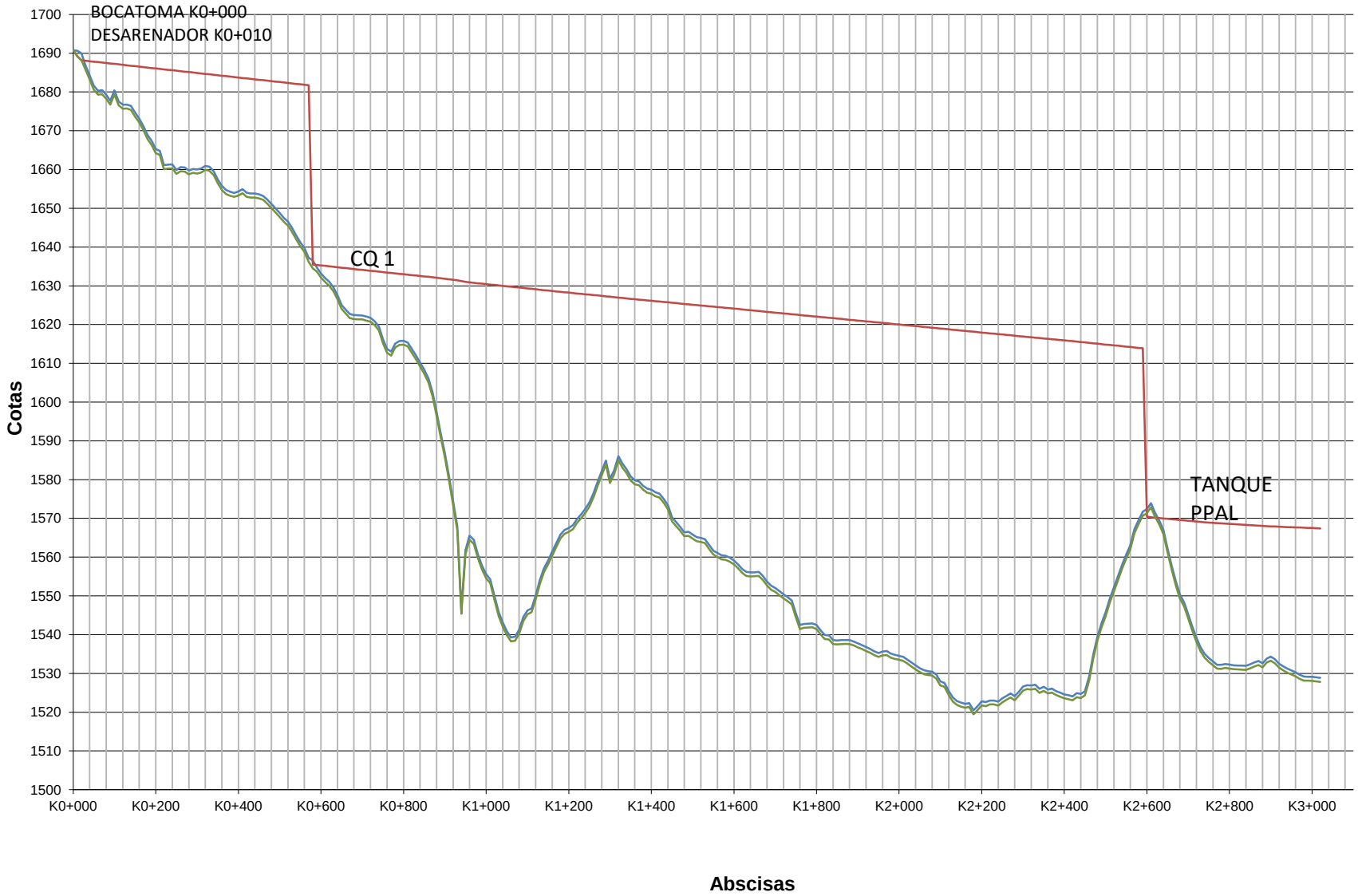
DISEÑO RAMAL PRINCIPAL ACUEDUCTO VEREDA ELRODEO



DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+000.00	1690.7589	1690.860	1.70	0.000	0.00	0.00	**PVC**	26.0	3	1690.86	BOCATOMA
k0+010.00	1690.6159	1689.210	1.70	0.000	0.00	0.00	**PVC**	26.0	3	1689.21	DESARENADOR
k0+020.00	1689.9606	1688.220	1.70	0.000	1.24	1.24	**PVC**	26.0	3	1688.22	DESARENADOR
k0+030.00	1686.8201	1685.790	1.70	0.000	0.16	0.16	**PVC**	26.0	2	1688.08	
k0+040.00	1684.2831	1683.253	1.70	0.000	0.32	2.75	**PVC**	26.0	2	1687.95	
k0+050.00	1681.6484	1680.618	1.70	0.000	0.50	5.47	**PVC**	26.0	2	1687.83	
k0+060.00	1680.3014	1679.271	1.70	0.000	0.66	8.26	**PVC**	26.0	2	1687.71	
k0+070.00	1680.4768	1679.447	1.70	0.000	0.82	9.77	**PVC**	26.0	2	1687.60	
k0+080.00	1679.3072	1678.277	1.70	0.000	0.98	9.75	**PVC**	26.0	2	1687.49	
k0+090.00	1677.7511	1676.721	1.70	0.000	1.13	11.08	**PVC**	26.0	2	1687.36	
k0+100.00	1680.3991	1679.369	1.70	0.000	1.30	12.80	**PVC**	26.0	2	1687.25	
k0+110.00	1677.5336	1676.503	1.70	0.000	1.46	10.31	**PVC**	26.0	2	1687.13	
k0+120.00	1676.7246	1675.694	1.70	0.000	1.63	13.34	**PVC**	26.0	2	1687.01	
k0+130.00	1676.7616	1675.731	1.70	0.000	1.79	14.32	**PVC**	26.0	2	1686.89	
k0+140.00	1676.4084	1675.378	1.70	0.000	1.95	14.44	**PVC**	26.0	2	1686.78	
k0+150.00	1674.682	1673.652	1.70	0.000	2.11	14.95	**PVC**	26.0	2	1686.66	
k0+160.00	1673.198	1672.168	1.70	0.000	2.27	16.84	**PVC**	26.0	2	1686.55	
k0+170.00	1671.1088	1670.079	1.70	0.000	2.43	18.48	**PVC**	26.0	2	1686.43	
k0+180.00	1668.8706	1667.840	1.70	0.000	2.59	20.73	**PVC**	26.0	2	1686.31	
k0+190.00	1667.3546	1666.324	1.70	0.000	2.75	23.13	**PVC**	26.0	2	1686.18	
k0+200.00	1665.2513	1664.221	1.70	0.000	2.92	24.82	**PVC**	26.0	2	1686.07	
k0+210.00	1664.8079	1663.778	1.70	0.000	3.08	27.08	**PVC**	26.0	2	1685.95	
k0+220.00	1661.1105	1660.080	1.70	0.000	3.24	27.68	**PVC**	26.0	2	1685.83	
k0+230.00	1661.2663	1660.236	1.70	0.000	3.56	31.70	**PVC**	26.0	2	1685.72	
k0+240.00	1661.3254	1660.295	1.70	0.000	3.72	31.70	**PVC**	26.0	2	1685.60	
k0+250.00	1659.8882	1658.858	1.70	0.000	4.05	31.97	**PVC**	26.0	2	1685.48	
k0+260.00	1660.5747	1659.545	1.70	0.000	4.22	33.58	**PVC**	26.0	2	1685.37	
k0+270.00	1660.5118	1659.482	1.70	0.000	4.56	33.23	**PVC**	26.0	2	1685.25	
k0+280.00	1659.7554	1658.725	1.70	0.000	4.74	33.48	**PVC**	26.0	2	1685.13	
k0+290.00	1660.1612	1659.131	1.70	0.000	5.09	34.59	**PVC**	26.0	2	1685.02	
k0+300.00	1659.986	1658.956	1.70	0.000	5.27	34.36	**PVC**	26.0	2	1684.89	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+310.00	1660.2455	1659.215	1.70	0.000	5.66	34.92	**PVC**	26.0	2	1684.78	
k0+320.00	1660.937	1659.907	1.70	0.000	5.84	34.85	**PVC**	26.0	2	1684.66	
k0+330.00	1660.7261	1659.696	1.70	0.000	6.22	34.53	**PVC**	26.0	2	1684.55	
k0+340.00	1659.5715	1658.541	1.70	0.000	6.41	34.94	**PVC**	26.0	2	1684.43	
k0+350.00	1657.466	1656.436	1.70	0.000	6.81	36.49	**PVC**	26.0	2	1684.31	
k0+360.00	1655.7663	1654.736	1.70	0.000	7.01	38.80	**PVC**	26.0	2	1684.20	
k0+370.00	1654.7381	1653.708	1.70	0.000	7.41	40.90	**PVC**	26.0	2	1684.08	
k0+380.00	1654.2643	1653.234	1.70	0.000	7.62	42.13	**PVC**	26.0	2	1683.96	
k0+390.00	1653.954	1652.924	1.70	0.000	8.04	43.03	**PVC**	26.0	2	1683.84	
k0+400.00	1654.3298	1653.300	1.70	0.000	8.25	43.55	**PVC**	26.0	2	1683.73	
k0+410.00	1654.907	1653.877	1.70	0.000	8.67	43.59	**PVC**	26.0	2	1683.60	
k0+420.00	1654.0005	1652.970	1.70	0.000	8.91	43.26	**PVC**	26.0	2	1683.49	
k0+430.00	1653.8076	1652.777	1.70	0.000	9.34	44.59	**PVC**	26.0	2	1683.37	
k0+440.00	1653.7911	1652.761	1.70	0.000	9.56	45.01	**PVC**	26.0	2	1683.26	
k0+450.00	1653.6044	1652.574	1.70	0.000	10.00	45.46	**PVC**	26.0	2	1683.15	
k0+460.00	1653.1859	1652.156	1.70	0.000	10.23	45.87	**PVC**	26.0	2	1683.03	
k0+470.00	1652.2121	1651.182	1.70	0.000	10.68	46.74	**PVC**	26.0	2	1682.91	
k0+480.00	1651.0955	1650.065	1.70	0.000	10.93	47.97	**PVC**	26.0	2	1682.79	
k0+490.00	1649.9804	1648.950	1.70	0.000	11.39	49.54	**PVC**	26.0	2	1682.68	
k0+500.00	1648.8104	1647.780	1.70	0.000	11.63	50.90	**PVC**	26.0	2	1682.56	
k0+510.00	1647.5075	1646.477	1.70	0.000	12.10	52.54	**PVC**	26.0	2	1682.45	
k0+520.00	1646.5462	1645.516	1.70	0.000	12.34	54.08	**PVC**	26.0	2	1682.32	
k0+530.00	1644.9179	1643.888	1.70	0.000	12.85	55.55	**PVC**	26.0	2	1682.21	
k0+540.00	1643.0388	1642.009	1.70	0.000	13.09	57.43	**PVC**	26.0	2	1682.09	
k0+550.00	1641.2277	1640.198	1.70	0.000	13.59	59.80	**PVC**	26.0	2	1681.98	
k0+560.00	1639.7957	1638.766	1.70	0.000	13.84	61.86	**PVC**	26.0	2	1681.86	
k0+570.00	1637.2186	1636.188	1.70	0.000	14.34	63.80	**PVC**	26.0	2	1681.73	
k0+580.00	1636.5387	1634.509	1.70	0.000	14.63	66.67	**PVC**	26.0	2	1635.48	
k0+590.00	1634.6995	1633.669	1.70	0.018	0.04	2.07	**PVC**	26.0	2	1635.37	
k0+600.00	1633.1847	1632.155	1.68	0.000	0.08	2.95	**PVC**	26.0	2	1635.26	
k0+610.00	1632.0257	1630.996	1.68	0.000	0.12	4.50	**PVC**	26.0	2	1635.14	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+620.00	1631.0688	1630.039	1.68	0.000	0.16	5.70	**PVC**	26.0	2	1635.03	
k0+630.00	1629.5922	1628.562	1.68	0.000	0.20	6.70	**PVC**	26.0	2	1634.91	
k0+640.00	1627.5114	1626.481	1.68	0.000	0.24	8.22	**PVC**	26.0	2	1634.80	
k0+650.00	1625.0438	1624.014	1.68	0.000	0.29	10.34	**PVC**	26.0	2	1634.68	
k0+660.00	1623.8762	1622.846	1.68	0.000	0.33	12.86	**PVC**	26.0	2	1634.56	
k0+670.00	1622.7086	1621.678	1.68	0.000	0.38	14.07	**PVC**	26.0	2	1634.45	
k0+680.00	1622.4466	1621.416	1.68	0.000	0.42	15.28	**PVC**	26.0	2	1634.33	
k0+690.00	1622.4028	1621.373	1.68	0.018	0.47	15.59	**PVC**	26.0	2	1634.21	
k0+700.00	1622.3413	1621.311	1.66	0.000	0.51	15.68	**PVC**	26.0	2	1634.10	
k0+710.00	1622.0437	1621.014	1.66	0.000	0.56	15.79	**PVC**	26.0	2	1633.99	
k0+720.00	1621.7461	1620.716	1.66	0.000	0.60	16.13	**PVC**	26.0	2	1633.88	
k0+730.00	1620.8914	1619.861	1.66	0.000	0.65	16.48	**PVC**	26.0	2	1633.77	
k0+740.00	1619.5128	1618.483	1.66	0.000	0.70	17.37	**PVC**	26.0	2	1633.66	
k0+750.00	1616.1744	1615.144	1.66	0.018	0.75	18.81	**PVC**	26.0	2	1633.54	
k0+760.00	1613.7135	1612.683	1.65	0.000	0.80	22.19	**PVC**	26.0	2	1633.42	
k0+770.00	1613.0157	1611.986	1.65	0.000	0.85	24.71	**PVC**	26.0	2	1633.31	
k0+780.00	1615.0968	1614.067	1.65	0.000	0.90	25.45	**PVC**	26.0	2	1633.20	
k0+790.00	1615.7673	1614.737	1.65	0.000	0.95	23.43	**PVC**	26.0	2	1633.10	
k0+800.00	1615.8363	1614.806	1.65	0.000	1.00	22.80	**PVC**	26.0	2	1632.99	
k0+810.00	1615.3597	1614.330	1.65	0.000	1.06	22.79	**PVC**	26.0	2	1632.88	
k0+820.00	1613.7205	1612.690	1.65	0.000	1.10	23.31	**PVC**	26.0	2	1632.77	
k0+830.00	1612.0761	1611.046	1.65	0.000	1.16	25.01	**PVC**	26.0	2	1632.66	
k0+840.00	1610.2383	1609.208	1.65	0.000	1.21	26.70	**PVC**	26.0	2	1632.55	
k0+850.00	1608.4024	1607.372	1.65	0.000	1.27	28.60	**PVC**	26.0	2	1632.43	
k0+860.00	1606.1253	1605.095	1.65	0.000	1.32	30.48	**PVC**	26.0	2	1632.32	
k0+870.00	1602.5743	1601.544	1.65	0.000	1.38	32.83	**PVC**	26.0	2	1632.20	
k0+880.00	1597.4479	1596.418	1.65	0.000	1.43	36.43	**PVC**	26.0	2	1632.08	
k0+890.00	1591.9898	1590.960	1.65	0.000	1.50	41.62	**PVC**	26.0	2	1631.96	
k0+900.00	1586.931	1585.901	1.65	0.000	1.56	47.13	**PVC**	26.0	2	1631.83	
k0+910.00	1581.0875	1580.057	1.65	0.000	1.63	52.27	**PVC**	26.0	2	1631.70	
k0+920.00	1574.3327	1573.303	1.65	0.000	1.69	58.17	**PVC**	26.0	2	1631.57	
k0+930.00	1568.0625	1567.032	1.65	0.000	1.79	65.02	**PVC**	26.0	2	1631.45	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+940.00	1546.4438	1545.414	1.65	0.000	1.85	71.35	**PVC**	26.0	2	1631.19	
k0+950.00	1561.7989	1560.769	1.65	0.000	1.98	93.11	**PVC**	26.0	2	1630.99	
k0+960.00	1565.5615	1564.531	1.65	0.000	2.07	77.84	**PVC**	26.0	2	1630.88	
k0+970.00	1564.4428	1563.413	1.65	0.000	2.15	74.15	**PVC**	26.0	2	1630.76	
k0+980.00	1560.6952	1559.665	1.65	0.000	2.20	75.33	**PVC**	26.0	2	1630.65	
k0+990.00	1557.811	1556.781	1.65	0.018	2.27	79.15	**PVC**	26.0	2	1630.53	
k1+000.00	1555.6143	1554.584	1.63	0.000	2.33	82.08	**PVC**	26.0	2	1630.43	
k1+010.00	1554.3118	1553.282	1.63	0.000	2.40	84.36	**PVC**	26.0	2	1630.32	
k1+020.00	1550.2047	1549.175	1.63	0.000	2.45	85.71	**PVC**	26.0	2	1630.21	
k1+030.00	1545.8445	1544.814	1.63	0.000	2.53	89.90	**PVC**	26.0	2	1630.08	
k1+040.00	1543.1349	1542.105	1.63	0.000	2.59	94.31	**PVC**	26.0	2	1629.97	
k1+050.00	1540.9126	1539.882	1.63	0.000	2.67	97.10	**PVC**	26.0	2	1629.86	
k1+060.00	1539.2853	1538.255	1.63	0.000	2.72	99.38	**PVC**	26.0	2	1629.76	
k1+070.00	1539.4475	1538.417	1.63	0.000	2.80	101.08	**PVC**	26.0	2	1629.65	
k1+080.00	1541.2302	1540.200	1.63	0.000	2.85	100.97	**PVC**	26.0	2	1629.54	
k1+090.00	1544.6089	1543.579	1.63	0.000	2.93	99.27	**PVC**	26.0	2	1629.43	
k1+100.00	1546.2727	1545.243	1.63	0.000	2.98	95.94	**PVC**	26.0	2	1629.32	
k1+110.00	1546.8062	1545.776	1.63	0.000	3.06	94.36	**PVC**	26.0	2	1629.22	
k1+120.00	1550.0877	1549.058	1.63	0.000	3.12	93.88	**PVC**	26.0	2	1629.10	
k1+130.00	1554.0044	1552.974	1.63	0.000	3.20	90.68	**PVC**	26.0	2	1628.99	
k1+140.00	1557.0736	1556.043	1.63	0.000	3.26	86.82	**PVC**	26.0	2	1628.88	
k1+150.00	1559.1959	1558.166	1.63	0.036	3.34	83.84	**PVC**	26.0	2	1628.77	
k1+160.00	1561.4521	1560.422	1.59	0.000	3.40	81.77	**PVC**	26.0	2	1628.66	
k1+170.00	1563.662	1562.632	1.59	0.000	3.49	79.60	**PVC**	26.0	2	1628.55	
k1+180.00	1565.8368	1564.807	1.59	0.000	3.54	77.45	**PVC**	26.0	2	1628.45	
k1+190.00	1567.0251	1565.995	1.59	0.000	3.62	75.36	**PVC**	26.0	2	1628.35	
k1+200.00	1567.539	1566.509	1.59	0.000	3.68	74.22	**PVC**	26.0	2	1628.23	
k1+210.00	1568.2615	1567.231	1.59	0.018	3.77	73.80	**PVC**	26.0	2	1628.13	
k1+220.00	1569.8614	1568.831	1.58	0.000	3.83	73.13	**PVC**	26.0	2	1628.02	
k1+230.00	1571.0441	1570.014	1.58	0.000	3.91	71.62	**PVC**	26.0	2	1627.91	
k1+240.00	1572.3896	1571.359	1.58	0.000	3.97	70.50	**PVC**	26.0	2	1627.81	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k1+250.00	1574.0409	1573.011	1.58	0.000	4.06	69.24	**PVC**	26.0	2	1627.71	
k1+260.00	1576.534	1575.504	1.58	0.000	4.12	67.65	**PVC**	26.0	2	1627.61	
k1+270.00	1579.5022	1578.472	1.58	0.000	4.21	65.24	**PVC**	26.0	2	1627.50	
k1+280.00	1582.2158	1581.186	1.58	0.000	4.27	62.33	**PVC**	26.0	2	1627.38	
k1+290.00	1584.9287	1583.899	1.58	0.000	4.37	59.72	**PVC**	26.0	2	1627.28	
k1+300.00	1580.1539	1579.124	1.58	0.000	4.42	57.06	**PVC**	26.0	2	1627.17	
k1+310.00	1582.3181	1581.288	1.58	0.000	4.52	61.94	**PVC**	26.0	2	1627.07	
k1+320.00	1586.027	1584.997	1.58	0.000	4.58	59.83	**PVC**	26.0	2	1626.96	
k1+330.00	1584.1243	1583.094	1.58	0.000	4.67	56.21	**PVC**	26.0	2	1626.86	
k1+340.00	1582.6963	1581.666	1.58	0.000	4.73	58.18	**PVC**	26.0	2	1626.76	
k1+350.00	1580.8234	1579.793	1.58	0.000	4.82	59.69	**PVC**	26.0	2	1626.64	
k1+360.00	1579.8446	1578.814	1.58	0.000	4.89	61.64	**PVC**	26.0	2	1626.54	
k1+370.00	1579.548	1578.518	1.58	0.000	4.98	62.71	**PVC**	26.0	2	1626.44	
k1+380.00	1578.4076	1577.377	1.58	0.000	5.04	63.06	**PVC**	26.0	2	1626.34	
k1+390.00	1577.6793	1576.649	1.58	0.000	5.13	64.29	**PVC**	26.0	2	1626.24	
k1+400.00	1577.4058	1576.376	1.58	0.000	5.19	65.08	**PVC**	26.0	2	1626.14	
k1+410.00	1576.7278	1575.698	1.58	0.000	5.28	65.45	**PVC**	26.0	2	1626.04	
k1+420.00	1576.3647	1575.335	1.58	0.000	5.34	66.18	**PVC**	26.0	2	1625.94	
k1+430.00	1575.0027	1573.973	1.58	0.000	5.44	66.64	**PVC**	26.0	2	1625.83	
k1+440.00	1573.378	1572.348	1.58	0.000	5.50	68.07	**PVC**	26.0	2	1625.73	
k1+450.00	1570.2914	1569.261	1.58	0.000	5.60	69.79	**PVC**	26.0	2	1625.63	
k1+460.00	1569.044	1568.014	1.58	0.000	5.66	72.94	**PVC**	26.0	2	1625.53	
k1+470.00	1567.8156	1566.785	1.58	0.000	5.76	74.28	**PVC**	26.0	2	1625.42	
k1+480.00	1566.4223	1565.392	1.58	0.000	5.82	75.57	**PVC**	26.0	2	1625.32	
k1+490.00	1566.5385	1565.508	1.58	0.000	5.92	77.06	**PVC**	26.0	2	1625.22	
k1+500.00	1565.8118	1564.782	1.58	0.000	5.98	77.01	**PVC**	26.0	2	1625.12	
k1+510.00	1565.1324	1564.102	1.58	0.000	6.08	77.83	**PVC**	26.0	2	1625.02	
k1+520.00	1564.9375	1563.907	1.58	0.000	6.14	78.57	**PVC**	26.0	2	1624.92	
k1+530.00	1564.6553	1563.625	1.58	0.000	6.24	78.87	**PVC**	26.0	2	1624.83	
k1+540.00	1563.174	1562.144	1.58	0.000	6.30	79.21	**PVC**	26.0	2	1624.72	
k1+550.00	1561.6927	1560.663	1.58	0.000	6.40	80.79	**PVC**	26.0	2	1624.62	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k1+560.00	1561.0474	1560.017	1.58	0.000	6.46	82.34	**PVC**	26.0	2	1624.52	
k1+570.00	1560.4592	1559.429	1.58	0.000	6.56	83.08	**PVC**	26.0	2	1624.42	
k1+580.00	1560.3488	1559.319	1.58	0.000	6.62	83.73	**PVC**	26.0	2	1624.31	
k1+590.00	1559.8943	1558.864	1.58	0.000	6.73	83.95	**PVC**	26.0	2	1624.21	
k1+600.00	1559.1279	1558.098	1.58	0.000	6.79	84.47	**PVC**	26.0	2	1624.11	
k1+610.00	1558.1398	1557.110	1.58	0.000	6.90	85.34	**PVC**	26.0	2	1624.01	
k1+620.00	1556.9444	1555.914	1.58	0.000	6.96	86.39	**PVC**	26.0	2	1623.91	
k1+630.00	1556.1854	1555.155	1.58	0.000	7.06	87.69	**PVC**	26.0	2	1623.81	
k1+640.00	1556.0484	1555.018	1.58	0.000	7.13	88.51	**PVC**	26.0	2	1623.70	
k1+650.00	1556.0864	1555.056	1.58	0.000	7.24	88.76	**PVC**	26.0	2	1623.60	
k1+660.00	1556.2087	1555.179	1.58	0.000	7.30	88.78	**PVC**	26.0	2	1623.50	
k1+670.00	1555.1209	1554.091	1.58	0.000	7.41	88.77	**PVC**	26.0	2	1623.40	
k1+680.00	1553.7136	1552.683	1.58	0.000	7.47	89.92	**PVC**	26.0	2	1623.28	
k1+690.00	1552.651	1551.621	1.58	0.000	7.59	91.44	**PVC**	26.0	2	1623.18	
k1+700.00	1552.0664	1551.036	1.58	0.000	7.65	92.57	**PVC**	26.0	2	1623.08	
k1+710.00	1551.23	1550.200	1.58	0.000	7.76	93.26	**PVC**	26.0	2	1622.98	
k1+720.00	1550.3936	1549.363	1.58	0.000	7.82	94.16	**PVC**	26.0	2	1622.88	
k1+730.00	1549.6759	1548.646	1.58	0.000	7.93	95.10	**PVC**	26.0	2	1622.78	
k1+740.00	1548.843	1547.813	1.58	0.000	7.99	95.89	**PVC**	26.0	2	1622.67	
k1+750.00	1545.5109	1544.481	1.58	0.000	8.11	96.84	**PVC**	26.0	2	1622.56	
k1+760.00	1542.4787	1541.449	1.58	0.000	8.18	100.24	**PVC**	26.0	2	1622.46	
k1+770.00	1542.779	1541.749	1.58	0.000	8.30	103.39	**PVC**	26.0	2	1622.36	
k1+780.00	1542.8577	1541.828	1.58	0.000	8.36	103.15	**PVC**	26.0	2	1622.26	
k1+790.00	1542.9259	1541.896	1.58	0.000	8.47	103.18	**PVC**	26.0	2	1622.16	
k1+800.00	1542.4816	1541.451	1.58	0.000	8.54	103.18	**PVC**	26.0	2	1622.06	
k1+810.00	1541.1049	1540.075	1.58	0.000	8.65	103.73	**PVC**	26.0	2	1621.96	
k1+820.00	1539.9085	1538.878	1.58	0.000	8.71	105.18	**PVC**	26.0	2	1621.86	
k1+830.00	1539.7838	1538.754	1.58	0.000	8.83	106.49	**PVC**	26.0	2	1621.74	
k1+840.00	1538.5842	1537.554	1.58	0.000	8.90	106.69	**PVC**	26.0	2	1621.64	
k1+850.00	1538.5134	1537.483	1.58	0.000	9.01	108.00	**PVC**	26.0	2	1621.54	
k1+860.00	1538.6089	1537.579	1.58	0.000	9.08	108.14	**PVC**	26.0	2	1621.44	
k1+870.00	1538.632	1537.602	1.58	0.000	9.19	108.15	**PVC**	26.0	2	1621.34	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k1+880.00	1538.6193	1537.589	1.58	0.000	9.26	108.20	**PVC**	26.0	2	1621.23	
k1+890.00	1538.2389	1537.209	1.58	0.000	9.38	108.33	**PVC**	26.0	2	1621.13	
k1+900.00	1537.7554	1536.725	1.58	0.000	9.45	108.78	**PVC**	26.0	2	1621.03	
k1+910.00	1537.3285	1536.298	1.58	0.000	9.57	109.38	**PVC**	26.0	2	1620.93	
k1+920.00	1536.8444	1535.814	1.58	0.000	9.63	109.87	**PVC**	26.0	2	1620.83	
k1+930.00	1536.339	1535.309	1.58	0.000	9.75	110.47	**PVC**	26.0	2	1620.73	
k1+940.00	1535.7444	1534.714	1.58	0.000	9.82	111.05	**PVC**	26.0	2	1620.63	
k1+950.00	1535.2791	1534.249	1.58	0.000	9.93	111.76	**PVC**	26.0	2	1620.53	
k1+960.00	1535.6765	1534.646	1.58	0.000	10.00	112.29	**PVC**	26.0	2	1620.43	
k1+970.00	1535.7566	1534.726	1.58	0.000	10.12	112.01	**PVC**	26.0	2	1620.33	
k1+980.00	1535.0913	1534.061	1.58	0.000	10.19	112.00	**PVC**	26.0	2	1620.22	
k1+990.00	1534.7681	1533.738	1.58	0.000	10.31	112.79	**PVC**	26.0	2	1620.12	
k2+000.00	1534.5531	1533.523	1.58	0.000	10.38	113.18	**PVC**	26.0	2	1620.02	
k2+010.00	1534.2597	1533.230	1.58	0.000	10.50	113.52	**PVC**	26.0	2	1619.91	
k2+020.00	1533.5605	1532.530	1.58	0.000	10.58	113.89	**PVC**	26.0	2	1619.81	
k2+030.00	1532.8101	1531.780	1.58	0.000	10.70	114.71	**PVC**	26.0	2	1619.71	
k2+040.00	1532.1019	1531.072	1.58	0.000	10.77	115.53	**PVC**	26.0	2	1619.60	
k2+050.00	1531.3937	1530.364	1.58	0.000	10.90	116.37	**PVC**	26.0	2	1619.50	
k2+060.00	1530.8137	1529.784	1.58	0.000	10.97	117.14	**PVC**	26.0	2	1619.40	
k2+070.00	1530.5897	1529.560	1.58	0.000	11.09	117.84	**PVC**	26.0	2	1619.30	
k2+080.00	1530.459	1529.429	1.58	0.000	11.16	118.14	**PVC**	26.0	2	1619.20	
k2+090.00	1529.6924	1528.662	1.58	0.000	11.28	118.39	**PVC**	26.0	2	1619.08	
k2+100.00	1527.9502	1526.920	1.58	0.000	11.36	119.24	**PVC**	26.0	2	1618.98	
k2+110.00	1527.5617	1526.532	1.58	0.000	11.49	121.11	**PVC**	26.0	2	1618.88	
k2+120.00	1525.4419	1524.412	1.58	0.000	11.56	121.57	**PVC**	26.0	2	1618.78	
k2+130.00	1523.7828	1522.753	1.58	0.000	11.68	123.81	**PVC**	26.0	2	1618.66	
k2+140.00	1522.8919	1521.862	1.58	0.000	11.77	125.55	**PVC**	26.0	2	1618.56	
k2+150.00	1522.4497	1521.420	1.58	0.000	11.89	126.57	**PVC**	26.0	2	1618.46	
k2+160.00	1522.1581	1521.128	1.58	0.000	11.96	127.08	**PVC**	26.0	2	1618.36	
k2+170.00	1522.376	1521.346	1.58	0.000	12.09	127.50	**PVC**	26.0	2	1618.26	
k2+180.00	1520.4901	1519.460	1.58	0.000	12.16	127.35	**PVC**	26.0	2	1618.16	
k2+190.00	1521.5832	1520.553	1.58	0.000	12.29	129.37	**PVC**	26.0	2	1618.06	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k2+200.00	1522.7866	1521.756	1.58	0.000	12.36	128.35	**PVC**	26.0	2	1617.95	
k2+210.00	1522.5798	1521.550	1.58	0.000	12.50	127.28	**PVC**	26.0	2	1617.85	
k2+220.00	1523.0356	1522.005	1.58	0.000	12.57	127.56	**PVC**	26.0	2	1617.75	
k2+230.00	1523.0176	1521.987	1.58	0.000	12.70	127.23	**PVC**	26.0	2	1617.63	
k2+240.00	1522.712	1521.682	1.58	0.000	12.78	127.33	**PVC**	26.0	2	1617.53	
k2+250.00	1523.5902	1522.560	1.58	0.000	12.91	127.76	**PVC**	26.0	2	1617.43	
k2+260.00	1524.2129	1523.183	1.58	0.000	12.98	126.96	**PVC**	26.0	2	1617.33	
k2+270.00	1524.8356	1523.805	1.58	0.000	13.11	126.47	**PVC**	26.0	2	1617.23	
k2+280.00	1524.1334	1523.103	1.58	0.000	13.18	125.92	**PVC**	26.0	2	1617.12	
k2+290.00	1525.3224	1524.292	1.58	0.000	13.32	126.76	**PVC**	26.0	2	1617.02	
k2+300.00	1526.6212	1525.591	1.58	0.000	13.40	125.64	**PVC**	26.0	2	1616.92	
k2+310.00	1526.969	1525.939	1.58	0.000	13.53	124.47	**PVC**	26.0	2	1616.82	
k2+320.00	1526.8966	1525.866	1.58	0.000	13.60	124.20	**PVC**	26.0	2	1616.72	
k2+330.00	1527.0702	1526.040	1.58	0.000	13.73	124.41	**PVC**	26.0	2	1616.62	
k2+340.00	1526.0321	1525.002	1.58	0.000	13.81	124.31	**PVC**	26.0	2	1616.52	
k2+350.00	1526.5531	1525.523	1.58	0.000	13.94	125.48	**PVC**	26.0	2	1616.42	
k2+360.00	1525.8655	1524.835	1.58	0.000	14.01	125.03	**PVC**	26.0	2	1616.32	
k2+370.00	1526.0757	1525.046	1.58	0.000	14.15	125.85	**PVC**	26.0	2	1616.22	
k2+380.00	1525.4695	1524.439	1.58	0.000	14.22	125.71	**PVC**	26.0	2	1616.11	
k2+390.00	1525.0362	1524.006	1.58	0.000	14.36	126.46	**PVC**	26.0	2	1616.01	
k2+400.00	1524.6143	1523.584	1.58	0.000	14.43	126.97	**PVC**	26.0	2	1615.91	
k2+410.00	1524.3739	1523.344	1.58	0.000	14.57	127.52	**PVC**	26.0	2	1615.81	
k2+420.00	1524.084	1523.054	1.58	0.000	14.64	127.84	**PVC**	26.0	2	1615.71	
k2+430.00	1524.8899	1523.860	1.58	0.000	14.78	128.26	**PVC**	26.0	2	1615.61	
k2+440.00	1524.7264	1523.696	1.58	0.000	14.85	127.53	**PVC**	26.0	2	1615.50	
k2+450.00	1525.3815	1524.351	1.58	0.000	15.00	127.84	**PVC**	26.0	2	1615.40	
k2+460.00	1529.2671	1528.237	1.58	0.000	15.08	127.27	**PVC**	26.0	2	1615.29	
k2+470.00	1534.9221	1533.892	1.58	0.000	15.22	123.53	**PVC**	26.0	2	1615.17	
k2+480.00	1539.4184	1538.388	1.58	0.000	15.31	117.96	**PVC**	26.0	2	1615.07	
k2+490.00	1542.8997	1541.870	1.58	0.000	15.46	113.61	**PVC**	26.0	2	1614.94	
k2+500.00	1545.7358	1544.706	1.58	0.000	15.55	110.22	**PVC**	26.0	2	1614.84	
k2+510.00	1549.1822	1548.152	1.58	0.000	15.69	107.53	**PVC**	26.0	2	1614.73	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k2+520.00	1552.2176	1551.187	1.58	0.000	15.78	104.16	**PVC**	26.0	2	1614.63	
k2+530.00	1555.1448	1554.115	1.58	0.000	15.92	101.27	**PVC**	26.0	2	1614.53	
k2+540.00	1558.0601	1557.030	1.58	0.000	16.00	98.42	**PVC**	26.0	2	1614.41	
k2+550.00	1560.6509	1559.621	1.58	0.000	16.15	95.66	**PVC**	26.0	2	1614.30	
k2+560.00	1563.0674	1562.037	1.58	0.000	16.23	93.15	**PVC**	26.0	2	1614.20	
k2+570.00	1567.1841	1566.154	1.58	0.000	16.38	90.88	**PVC**	26.0	2	1614.09	
k2+580.00	1569.6558	1568.626	1.58	0.000	16.46	86.85	**PVC**	26.0	2	1613.99	
k2+590.00	1571.7537	1570.724	1.58	0.000	16.60	84.52	**PVC**	26.0	2	1613.89	
k2+600.00	1572.4054	1571.369	1.58	0.000	16.68	82.50	**PVC**	21.0	2 1/2	1570.42	Tanque Principal
k2+610.00	1573.9212	1572.885	2.53	0.000	0.44	1.47	**PVC**	21.0	2 1/2	1570.30	
k2+620.00	1571.3838	1570.347	2.53	0.142	0.81	0.33	**PVC**	21.0	2 1/2	1570.19	Ramal 1
k2+630.00	1569.5213	1568.485	2.39	0.000	1.19	3.25	**PVC**	21.0	2 1/2	1570.10	
k2+640.00	1566.9186	1565.882	2.39	0.000	1.57	5.49	**PVC**	21.0	2 1/2	1569.99	
k2+650.00	1562.2266	1561.190	2.39	0.000	2.04	8.56	**PVC**	21.0	2 1/2	1569.89	
k2+660.00	1557.8019	1556.765	2.39	0.000	2.45	13.66	**PVC**	21.0	2 1/2	1569.79	
k2+670.00	1553.8337	1552.797	2.39	0.000	2.87	18.51	**PVC**	21.0	2 1/2	1569.69	
k2+680.00	1550.3998	1549.363	2.39	0.011	3.27	22.88	**PVC**	21.0	2 1/2	1569.58	
k2+690.00	1548.2824	1547.246	2.37	0.000	3.74	26.78	**PVC**	21.0	2 1/2	1569.48	
k2+700.00	1545.1851	1544.149	2.37	0.000	4.13	29.29	**PVC**	21.0	2 1/2	1569.39	
k2+710.00	1542.0124	1540.976	2.37	0.000	4.54	32.80	**PVC**	21.0	2 1/2	1569.29	
k2+720.00	1539.2116	1538.175	2.37	0.011	4.94	36.37	**PVC**	21.0	2 1/2	1569.19	
k2+730.00	1536.7704	1535.734	2.36	0.000	5.38	39.61	**PVC**	21.0	2 1/2	1569.10	
k2+740.00	1535.0806	1534.044	2.36	0.020	5.77	42.44	**PVC**	21.0	2 1/2	1569.01	
k2+750.00	1533.9569	1532.920	2.34	0.355	6.18	44.55	**PVC**	21.0	2 1/2	1568.92	Sale ramal 2
k2+760.00	1533.1066	1532.070	1.99	0.033	6.57	46.05	**PVC**	21.0	2 1/2	1568.86	
k2+770.00	1532.2553	1531.219	1.96	0.000	6.98	47.31	**PVC**	21.0	2 1/2	1568.80	
k2+780.00	1532.2247	1531.188	1.96	0.033	7.36	48.55	**PVC**	21.0	2 1/2	1568.72	Sale ramal 3
k2+790.00	1532.4475	1531.411	1.92	0.022	7.81	49.03	**PVC**	21.0	2 1/2	1568.66	
k2+800.00	1532.2932	1531.257	1.90	0.000	8.20	49.19	**PVC**	21.0	2 1/2	1568.60	
k2+810.00	1532.1131	1531.077	1.90	0.000	8.62	49.77	**PVC**	21.0	2 1/2	1568.53	
k2+820.00	1532.0463	1531.010	1.90	0.000	9.06	50.39	**PVC**	21.0	2 1/2	1568.47	
k2+830.00	1531.9982	1530.962	1.90	0.000	9.48	50.87	**PVC**	21.0	2 1/2	1568.41	

DISEÑO HIDRAULICO

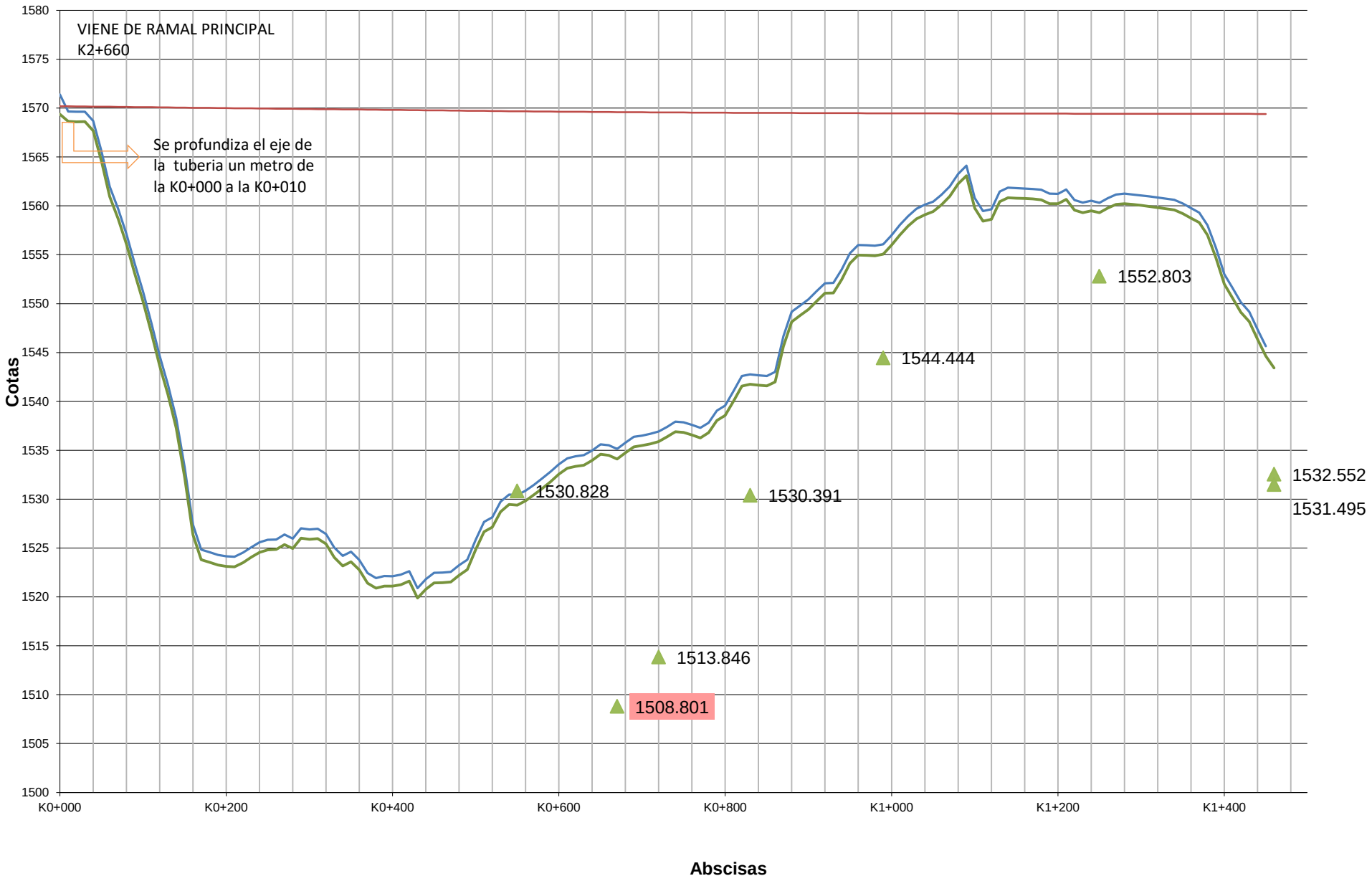
ACUEDUCTO ZONA EL RODEO
RAMAL PRINCIPAL

Linea principal

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k2+840.00	1531.9583	1530.922	1.90	0.000	9.87	51.31	**PVC**	21.0	2 1/2	1568.35	
k2+850.00	1532.3593	1531.323	1.90	0.000	10.29	51.78	**PVC**	21.0	2 1/2	1568.27	
k2+860.00	1532.829	1531.792	1.90	0.000	10.76	51.84	**PVC**	21.0	2 1/2	1568.21	
k2+870.00	1533.2254	1532.189	1.90	0.000	11.19	51.80	**PVC**	21.0	2 1/2	1568.15	
k2+880.00	1532.6269	1531.590	1.90	0.000	11.58	51.80	**PVC**	21.0	2 1/2	1568.08	
k2+890.00	1533.8252	1532.789	1.90	0.011	12.08	52.90	**PVC**	21.0	2 1/2	1568.02	
k2+900.00	1534.3183	1533.282	1.89	0.111	12.48	52.09	**PVC**	21.0	2 1/2	1567.96	
k2+910.00	1533.6848	1532.648	1.78	0.022	12.92	52.04	**PVC**	21.0	2 1/2	1567.90	
k2+920.00	1532.509	1531.472	1.76	0.111	13.31	53.07	**PVC**	21.0	2 1/2	1567.85	
k2+930.00	1531.813	1530.776	1.64	0.111	13.75	54.68	**PVC**	21.0	2 1/2	1567.80	
k2+940.00	1531.2406	1530.204	1.53	0.022	14.21	55.84	**PVC**	21.0	2 1/2	1567.76	
k2+950.00	1530.7446	1529.708	1.51	0.000	14.65	56.85	**PVC**	21.0	2 1/2	1567.72	
k2+960.00	1530.2952	1529.259	1.51	0.000	15.04	57.74	**PVC**	21.0	2 1/2	1567.67	
k2+970.00	1529.6523	1528.616	1.51	0.000	15.48	58.63	**PVC**	21.0	2 1/2	1567.63	
k2+980.00	1529.1922	1528.156	1.51	0.011	15.88	59.67	**PVC**	21.0	2 1/2	1567.59	
k2+990.00	1529.1502	1528.114	1.50	0.000	16.33	60.58	**PVC**	21.0	2 1/2	1567.55	
k3+000.00	1529.1352	1528.099	1.50	0.000	16.79	61.08	**PVC**	21.0	2 1/2	1567.50	
k3+010.00	1528.9907	1527.954	1.50	0.000	17.23	61.54	**PVC**	21.0	2 1/2	1567.46	
k3+020.00	1528.8437	1527.807	1.50	0.000	17.63	62.08	**PVC**	21.0	2 1/2	1567.42	
k3+023	1528.790	1527.753	1.50	1.032	7.37	51.97	**PVC**	21.0	2 1/2	1567.41	

DISEÑO RAMAL 1 ACUEDUCTO VEREDA EL RODEO



DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL 1

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+000.00	1571.384	1569.363	0.14	0.000	0.00	0.00	**PVC**	21.0	1 1/4	1570.19	
k0+010.00	1569.662	1568.641	0.14	0.000	0.00	0.83	**PVC**	21.0	1 1/4	1570.18	
k0+020.00	1569.627	1568.606	0.14	0.000	0.00	1.55	**PVC**	21.0	1 1/4	1570.17	
k0+030.00	1569.634	1568.613	0.14	0.000	0.01	1.60	**PVC**	21.0	1 1/4	1570.16	
k0+040.00	1568.696	1567.675	0.14	0.000	0.02	1.60	**PVC**	21.0	1 1/4	1570.15	
k0+050.00	1565.601	1564.580	0.14	0.000	0.02	2.54	**PVC**	21.0	1 1/4	1570.14	
k0+060.00	1561.975	1560.954	0.14	0.000	0.03	5.64	**PVC**	21.0	1 1/4	1570.13	
k0+070.00	1559.681	1558.660	0.14	0.000	0.04	9.28	**PVC**	21.0	1 1/4	1570.13	
k0+080.00	1557.113	1556.092	0.14	0.000	0.04	11.58	**PVC**	21.0	1 1/4	1570.12	
k0+090.00	1554.105	1553.084	0.14	0.000	0.05	14.15	**PVC**	21.0	1 1/4	1570.11	
k0+100.00	1551.260	1550.239	0.14	0.000	0.06	17.16	**PVC**	21.0	1 1/4	1570.10	
k0+110.00	1548.003	1546.982	0.14	0.000	0.06	20.02	**PVC**	21.0	1 1/4	1570.09	
k0+120.00	1544.641	1543.620	0.14	0.000	0.07	23.28	**PVC**	21.0	1 1/4	1570.08	
k0+130.00	1541.709	1540.688	0.14	0.000	0.07	26.65	**PVC**	21.0	1 1/4	1570.07	
k0+140.00	1538.290	1537.269	0.14	0.000	0.08	29.58	**PVC**	21.0	1 1/4	1570.06	
k0+150.00	1533.232	1532.211	0.14	0.000	0.09	33.01	**PVC**	21.0	1 1/4	1570.05	
k0+160.00	1527.394	1526.372	0.14	0.000	0.09	38.08	**PVC**	21.0	1 1/4	1570.04	
k0+170.00	1524.829	1523.808	0.14	0.000	0.11	43.93	**PVC**	21.0	1 1/4	1570.03	
k0+180.00	1524.574	1523.553	0.14	0.000	0.11	46.50	**PVC**	21.0	1 1/4	1570.02	
k0+190.00	1524.286	1523.265	0.14	0.000	0.12	46.76	**PVC**	21.0	1 1/4	1570.01	
k0+200.00	1524.150	1523.129	0.14	0.000	0.13	47.06	**PVC**	21.0	1 1/4	1570.00	
k0+210.00	1524.101	1523.080	0.14	0.000	0.14	47.21	**PVC**	21.0	1 1/4	1569.99	
k0+220.00	1524.521	1523.500	0.14	0.000	0.15	47.26	**PVC**	21.0	1 1/4	1569.98	
k0+230.00	1525.074	1524.053	0.14	0.000	0.16	46.85	**PVC**	21.0	1 1/4	1569.97	
k0+240.00	1525.581	1524.560	0.14	0.000	0.17	46.31	**PVC**	21.0	1 1/4	1569.96	
k0+250.00	1525.838	1524.817	0.14	0.000	0.18	45.82	**PVC**	21.0	1 1/4	1569.95	
k0+260.00	1525.879	1524.858	0.14	0.000	0.19	45.57	**PVC**	21.0	1 1/4	1569.94	
k0+270.00	1526.382	1525.361	0.14	0.000	0.20	45.54	**PVC**	21.0	1 1/4	1569.94	
k0+280.00	1525.967	1524.946	0.14	0.000	0.21	45.04	**PVC**	21.0	1 1/4	1569.93	
k0+290.00	1527.024	1526.003	0.14	0.000	0.23	45.47	**PVC**	21.0	1 1/4	1569.92	
k0+300.00	1526.907	1525.885	0.14	0.000	0.23	44.42	**PVC**	21.0	1 1/4	1569.91	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL 1

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+310.00	1526.972	1525.951	0.14	0.000	0.25	44.56	**PVC**	21.0	1 1/4	1569.90	
k0+320.00	1526.437	1525.416	0.14	0.000	0.26	44.50	**PVC**	21.0	1 1/4	1569.89	
k0+330.00	1525.054	1524.033	0.14	0.000	0.27	45.05	**PVC**	21.0	1 1/4	1569.88	
k0+340.00	1524.196	1523.174	0.14	0.000	0.28	46.44	**PVC**	21.0	1 1/4	1569.87	
k0+350.00	1524.614	1523.593	0.14	0.000	0.30	47.32	**PVC**	21.0	1 1/4	1569.86	
k0+360.00	1523.783	1522.762	0.14	0.000	0.31	46.91	**PVC**	21.0	1 1/4	1569.85	
k0+370.00	1522.441	1521.419	0.14	0.000	0.32	47.75	**PVC**	21.0	1 1/4	1569.84	
k0+380.00	1521.917	1520.896	0.14	0.000	0.33	49.11	**PVC**	21.0	1 1/4	1569.83	
k0+390.00	1522.131	1521.110	0.14	0.000	0.35	49.65	**PVC**	21.0	1 1/4	1569.82	
k0+400.00	1522.125	1521.104	0.14	0.000	0.36	49.44	**PVC**	21.0	1 1/4	1569.82	
k0+410.00	1522.269	1521.248	0.14	0.000	0.38	49.46	**PVC**	21.0	1 1/4	1569.81	
k0+420.00	1522.638	1521.617	0.14	0.000	0.38	49.33	**PVC**	21.0	1 1/4	1569.80	
k0+430.00	1520.900	1519.879	0.14	0.000	0.40	48.98	**PVC**	21.0	1 1/4	1569.79	
k0+440.00	1521.803	1520.781	0.14	0.000	0.41	50.73	**PVC**	21.0	1 1/4	1569.78	
k0+450.00	1522.459	1521.437	0.14	0.000	0.43	49.84	**PVC**	21.0	1 1/4	1569.77	
k0+460.00	1522.481	1521.460	0.14	0.000	0.44	49.20	**PVC**	21.0	1 1/4	1569.76	
k0+470.00	1522.561	1521.540	0.14	0.000	0.46	49.19	**PVC**	21.0	1 1/4	1569.75	
k0+480.00	1523.234	1522.212	0.14	0.000	0.47	49.12	**PVC**	21.0	1 1/4	1569.74	
k0+490.00	1523.813	1522.792	0.14	0.000	0.49	48.47	**PVC**	21.0	1 1/4	1569.73	
k0+500.00	1525.879	1524.858	0.14	0.000	0.50	47.90	**PVC**	21.0	1 1/4	1569.72	
k0+510.00	1527.687	1526.666	0.14	0.000	0.52	45.85	**PVC**	21.0	1 1/4	1569.71	
k0+520.00	1528.149	1527.128	0.14	0.000	0.53	44.05	**PVC**	21.0	1 1/4	1569.70	
k0+530.00	1529.734	1528.713	0.14	0.000	0.55	43.61	**PVC**	21.0	1 1/4	1569.70	
k0+540.00	1530.476	1529.455	0.14	0.000	0.56	42.04	**PVC**	21.0	1 1/4	1569.69	
k0+550.00	1530.416	1529.395	0.14	0.018	0.58	41.32	**PVC**	21.0	1 1/4	1569.68	
k0+560.00	1530.861	1529.840	0.12	0.000	0.59	41.39	**PVC**	21.0	1 1/4	1569.67	
k0+570.00	1531.463	1530.442	0.12	0.000	0.61	40.96	**PVC**	21.0	1 1/4	1569.66	
k0+580.00	1532.125	1531.103	0.12	0.000	0.62	40.37	**PVC**	21.0	1 1/4	1569.65	
k0+590.00	1532.806	1531.784	0.12	0.000	0.64	39.73	**PVC**	21.0	1 1/4	1569.65	
k0+600.00	1533.574	1532.553	0.12	0.000	0.65	39.06	**PVC**	21.0	1 1/4	1569.64	
k0+610.00	1534.181	1533.160	0.12	0.000	0.67	38.31	**PVC**	21.0	1 1/4	1569.63	
k0+620.00	1534.380	1533.358	0.12	0.000	0.68	37.71	**PVC**	21.0	1 1/4	1569.63	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL 1

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+630.00	1534.500	1533.479	0.12	0.000	0.70	37.53	**PVC**	21.0	1 1/4	1569.62	
k0+640.00	1534.980	1533.959	0.12	0.000	0.71	37.42	**PVC**	21.0	1 1/4	1569.61	
k0+650.00	1535.608	1534.587	0.12	0.000	0.73	36.97	**PVC**	21.0	1 1/4	1569.60	
k0+660.00	1535.503	1534.482	0.12	0.000	0.74	36.35	**PVC**	21.0	1 1/4	1569.60	
k0+670.00	1535.130	1534.109	0.12	0.018	0.76	36.47	**PVC**	21.0	1 1/4	1569.59	
k0+680.00	1535.765	1534.744	0.11	0.000	0.77	36.86	**PVC**	21.0	1 1/4	1569.58	
k0+690.00	1536.376	1535.355	0.11	0.000	0.79	36.24	**PVC**	21.0	1 1/4	1569.58	
k0+700.00	1536.503	1535.482	0.11	0.000	0.81	35.64	**PVC**	21.0	1 1/4	1569.57	
k0+710.00	1536.674	1535.653	0.11	0.000	0.83	35.54	**PVC**	21.0	1 1/4	1569.57	
k0+720.00	1536.909	1535.888	0.11	0.018	0.84	35.38	**PVC**	21.0	1 1/4	1569.56	
k0+730.00	1537.396	1536.375	0.09	0.000	0.86	35.16	**PVC**	21.0	1 1/4	1569.56	
k0+740.00	1537.920	1536.899	0.09	0.000	0.87	34.69	**PVC**	21.0	1 1/4	1569.55	
k0+750.00	1537.853	1536.832	0.09	0.000	0.89	34.18	**PVC**	21.0	1 1/4	1569.55	
k0+760.00	1537.597	1536.576	0.09	0.000	0.90	34.26	**PVC**	21.0	1 1/4	1569.54	
k0+770.00	1537.296	1536.275	0.09	0.000	0.92	34.54	**PVC**	21.0	1 1/4	1569.54	
k0+780.00	1537.821	1536.800	0.09	0.000	0.93	34.85	**PVC**	21.0	1 1/4	1569.54	
k0+790.00	1539.066	1538.045	0.09	0.000	0.95	34.34	**PVC**	21.0	1 1/4	1569.53	
k0+800.00	1539.582	1538.561	0.09	0.000	0.96	33.11	**PVC**	21.0	1 1/4	1569.53	
k0+810.00	1541.066	1540.045	0.09	0.000	0.98	32.61	**PVC**	21.0	1 1/4	1569.52	
k0+820.00	1542.598	1541.577	0.09	0.000	0.99	31.14	**PVC**	21.0	1 1/4	1569.52	
k0+830.00	1542.771	1541.750	0.09	0.018	1.01	29.63	**PVC**	21.0	1 1/4	1569.51	
k0+840.00	1542.677	1541.656	0.07	0.000	1.03	29.47	**PVC**	21.0	1 1/4	1569.51	
k0+850.00	1542.600	1541.579	0.07	0.000	1.04	29.58	**PVC**	21.0	1 1/4	1569.51	
k0+860.00	1543.012	1541.991	0.07	0.000	1.06	29.67	**PVC**	21.0	1 1/4	1569.51	
k0+870.00	1546.654	1545.633	0.07	0.000	1.08	29.28	**PVC**	21.0	1 1/4	1569.50	
k0+880.00	1549.169	1548.148	0.07	0.000	1.09	25.65	**PVC**	21.0	1 1/4	1569.50	
k0+890.00	1549.806	1548.785	0.07	0.000	1.11	23.15	**PVC**	21.0	1 1/4	1569.50	
k0+900.00	1550.431	1549.410	0.07	0.000	1.12	22.53	**PVC**	21.0	1 1/4	1569.49	
k0+910.00	1551.278	1550.257	0.07	0.000	1.14	21.92	**PVC**	21.0	1 1/4	1569.49	
k0+920.00	1552.083	1551.062	0.07	0.000	1.15	21.09	**PVC**	21.0	1 1/4	1569.49	
k0+930.00	1552.122	1551.101	0.07	0.000	1.17	20.30	**PVC**	21.0	1 1/4	1569.49	
k0+940.00	1553.484	1552.463	0.07	0.000	1.18	20.28	**PVC**	21.0	1 1/4	1569.48	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL 1

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k0+950.00	1555.150	1554.129	0.07	0.000	1.20	18.93	**PVC**	21.0	1 1/4	1569.48	
k0+960.00	1555.992	1554.971	0.07	0.000	1.22	17.28	**PVC**	21.0	1 1/4	1569.48	
k0+970.00	1555.964	1554.943	0.07	0.000	1.24	16.46	**PVC**	21.0	1 1/4	1569.47	
k0+980.00	1555.926	1554.905	0.07	0.000	1.25	16.50	**PVC**	21.0	1 1/4	1569.47	
k0+990.00	1556.076	1555.055	0.07	0.018	1.27	16.56	**PVC**	21.0	1 1/4	1569.47	
k1+000.00	1557.007	1555.986	0.05	0.000	1.28	16.42	**PVC**	21.0	1 1/4	1569.47	
k1+010.00	1558.056	1557.035	0.05	0.000	1.30	15.51	**PVC**	21.0	1 1/4	1569.47	
k1+020.00	1558.959	1557.938	0.05	0.000	1.31	14.47	**PVC**	21.0	1 1/4	1569.46	
k1+030.00	1559.697	1558.675	0.05	0.000	1.33	13.59	**PVC**	21.0	1 1/4	1569.46	
k1+040.00	1560.115	1559.094	0.05	0.000	1.34	12.86	**PVC**	21.0	1 1/4	1569.46	
k1+050.00	1560.438	1559.417	0.05	0.000	1.36	12.46	**PVC**	21.0	1 1/4	1569.46	
k1+060.00	1561.135	1560.114	0.05	0.000	1.38	12.15	**PVC**	21.0	1 1/4	1569.46	
k1+070.00	1561.990	1560.969	0.05	0.000	1.39	11.47	**PVC**	21.0	1 1/4	1569.45	
k1+080.00	1563.273	1562.252	0.05	0.000	1.41	10.63	**PVC**	21.0	1 1/4	1569.45	
k1+090.00	1564.111	1563.089	0.05	0.000	1.43	9.37	**PVC**	21.0	1 1/4	1569.45	
k1+100.00	1560.797	1559.776	0.05	0.000	1.44	8.54	**PVC**	21.0	1 1/4	1569.45	
k1+110.00	1559.467	1558.445	0.05	0.000	1.46	11.88	**PVC**	21.0	1 1/4	1569.45	
k1+120.00	1559.654	1558.633	0.05	0.000	1.47	13.22	**PVC**	21.0	1 1/4	1569.45	
k1+130.00	1561.454	1560.433	0.05	0.000	1.49	13.05	**PVC**	21.0	1 1/4	1569.44	
k1+140.00	1561.854	1560.832	0.05	0.000	1.51	11.27	**PVC**	21.0	1 1/4	1569.44	
k1+150.00	1561.813	1560.792	0.05	0.000	1.52	10.88	**PVC**	21.0	1 1/4	1569.44	
k1+160.00	1561.773	1560.752	0.05	0.000	1.54	10.94	**PVC**	21.0	1 1/4	1569.44	
k1+170.00	1561.733	1560.712	0.05	0.000	1.56	11.00	**PVC**	21.0	1 1/4	1569.44	
k1+180.00	1561.646	1560.625	0.05	0.000	1.57	11.05	**PVC**	21.0	1 1/4	1569.44	
k1+190.00	1561.252	1560.231	0.05	0.000	1.59	11.16	**PVC**	21.0	1 1/4	1569.43	
k1+200.00	1561.238	1560.217	0.05	0.000	1.60	11.57	**PVC**	21.0	1 1/4	1569.43	
k1+210.00	1561.686	1560.665	0.05	0.000	1.62	11.60	**PVC**	21.0	1 1/4	1569.43	
k1+220.00	1560.587	1559.566	0.05	0.000	1.64	11.16	**PVC**	21.0	1 1/4	1569.43	
k1+230.00	1560.333	1559.311	0.05	0.000	1.66	12.28	**PVC**	21.0	1 1/4	1569.43	
k1+240.00	1560.520	1559.499	0.05	0.000	1.67	12.55	**PVC**	21.0	1 1/4	1569.42	
k1+250.00	1560.322	1559.301	0.05	0.018	1.69	12.38	**PVC**	21.0	1 1/4	1569.42	
k1+260.00	1560.786	1559.765	0.04	0.000	1.70	12.59	**PVC**	21.0	1 1/4	1569.42	

DISEÑO HIDRAULICO

ACUEDUCTO ZONA EL RODEO
RAMAL 1

CMH
CMD

ABSCISA	COTA		CAUDAL		GOLPE	P. TOTAL		RDE	DIAMETRO	ALTURA	OBSERVACIONES
	TERRENO	EJE	TRAMO	QUE SALE	ARIETE	MAX.FINAL	MATERIAL	CLASE	NOMINAL.	PIEZOM.	
m	m	m	LPS	LPS	m.c.a.	m.c.a.	TUBERIA	o P de T.	(PULG.)	(m)	
k1+270.00	1561.168	1560.147	0.04	0.000	1.72	12.15	**PVC**	21.0	1 1/4	1569.42	
k1+280.00	1561.252	1560.230	0.04	0.000	1.73	11.78	**PVC**	21.0	1 1/4	1569.42	
k1+290.00	1561.162	1560.141	0.04	0.000	1.75	11.71	**PVC**	21.0	1 1/4	1569.42	
k1+300.00	1561.072	1560.051	0.04	0.000	1.76	11.82	**PVC**	21.0	1 1/4	1569.42	
k1+310.00	1560.961	1559.940	0.04	0.000	1.78	11.92	**PVC**	21.0	1 1/4	1569.42	
k1+320.00	1560.845	1559.824	0.04	0.000	1.80	12.05	**PVC**	21.0	1 1/4	1569.42	
k1+330.00	1560.729	1559.708	0.04	0.000	1.81	12.18	**PVC**	21.0	1 1/4	1569.42	
k1+340.00	1560.613	1559.592	0.04	0.000	1.83	12.31	**PVC**	21.0	1 1/4	1569.41	
k1+350.00	1560.242	1559.221	0.04	0.000	1.85	12.45	**PVC**	21.0	1 1/4	1569.41	
k1+360.00	1559.763	1558.742	0.04	0.000	1.86	12.83	**PVC**	21.0	1 1/4	1569.41	
k1+370.00	1559.306	1558.284	0.04	0.000	1.88	13.33	**PVC**	21.0	1 1/4	1569.41	
k1+380.00	1558.023	1557.002	0.04	0.000	1.89	13.80	**PVC**	21.0	1 1/4	1569.41	
k1+390.00	1555.687	1554.666	0.04	0.000	1.91	15.10	**PVC**	21.0	1 1/4	1569.41	
k1+400.00	1553.025	1552.004	0.04	0.000	1.92	17.45	**PVC**	21.0	1 1/4	1569.41	
k1+410.00	1551.606	1550.585	0.04	0.000	1.94	20.13	**PVC**	21.0	1 1/4	1569.41	
k1+420.00	1550.145	1549.124	0.04	0.000	1.96	21.57	**PVC**	21.0	1 1/4	1569.41	
k1+430.00	1549.178	1548.157	0.04	0.000	1.98	23.05	**PVC**	21.0	1 1/4	1569.41	
k1+440.00	1547.364	1546.343	0.04	0.000	1.99	24.03	**PVC**	21.0	1 1/4	1569.41	
k1+450.00	1545.656	1544.635	0.04	0.000	2.01	25.86	**PVC**	21.0	1 1/4	1569.40	
k1+460.00	1544.436	1543.415	0.04	0.000	2.02	27.58	**PVC**	21.0	1 1/4	1569.40	
k1+469.43	1543.306	1542.285	0.04	0.036	2.03	28.81	**PVC**	21.0	1 1/4	1569.40	