Alpine and Lakeside Sanitation Districts Sewer Master Plan Update
2015 Dry Weather Flow Model Results

US Node ID	DS Node ID	Asset ID	Length (ft)	Diameter (in)	Conduit Material	Gradient (%)	Year Installed	Max DS Depth (ft)	Max DS Flow (MGD)	Max DS Velocity (ft/s)	Max US Depth (ft)	Max US Flow (MGD)	Max US Velocity (ft/s)	Max Surcharge State	d/D	Trunk Sewer / Map Book Page
LS1126.00	LS1123.00	LS1605.00	152.0	8	VCP	1.55	1965	0.22	0.22	3.29	0.23	0.22	3.22	0.34	0.34	Winter Gardens Trunk (242-1785-NE)
LS1127.00	LS1126.00	LS1606.00	220.0	8	VCP	4.76	1965	0.23	0.22	3.21	0.18	0.22	4.59	0.34	0.26	Winter Gardens Trunk (242-1785-NE)
LS1179.00	LS1127.00	LS1701.00	132.2	8	VCP	5.68	1965	0.18	0.10	2.11	0.12	0.10	3.44	0.26	0.19	Winter Gardens Trunk (242-1785-NE)
ZZZZ000201	LS0064.00	LS0077.00	5.0	27	VCP	3.80	1979	1.16	5.74	4.30	1.00	5.74	5.24	0.52	0.44	Woodside Interceptor (250-1785-SW)
LS0065.00	ZZZZ000201	LS0078.00	233.0	27	VCP	0.21	1978	1.03	5.74	5.01	1.24	5.74	3.94	0.55	0.55	Woodside Interceptor (250-1785-SW)
LS0066.00	LS0065.00	LS0079.00	620.0	27	VCP	0.20	1978	1.25	5.74	3.93	1.31	5.74	3.68	0.58	0.58	Woodside Interceptor (250-1785-SW)
LS0067.00	LS0066.00	LS0080.00	63.0	27	VCP	0.89	1978	1.32	5.74	3.67	1.00	5.74	5.22	0.59	0.44	Woodside Interceptor (250-1785-SW)
LS0882.00	LS0067.00	LS1233.00	187.0	27	VCP	0.09	1978	1.00	2.99	3.14	1.07	2.99	2.52	0.47	0.47	Woodside Interceptor (250-1785-SW)
LS0883.00	LS0882.00	LS1234.00	329.0	27	VCP	0.21	1978	1.07	2.99	2.52	0.91	2.99	3.08	0.47	0.40	Woodside Interceptor (250-1785-SW)
LS0884.00	LS0883.00	LS1235.00	101.8	27	VCP	0.12	1978	0.74	2.99	4.11	0.90	2.99	3.13	0.40	0.40	Woodside Interceptor (250-1785-SW)
LS1510.00	LS0884.00	LS2215.00	389.0	21	VCP	0.47	1978	0.90	1.92	2.38	0.63	1.92	3.81	0.51	0.36	Woodside Interceptor (250-1785-SW)
LS1511.00	LS1510.00	LS2216.00	441.9	21	VCP	0.34	1978	0.63	1.92	3.81	0.69	1.92	3.37	0.39	0.39	Woodside Interceptor (250-1785-SW)
LS1512.00	LS1511.00	LS2217.00	449.0	21	VCP	0.34	1978	0.69	1.92	3.37	0.69	1.92	3.38	0.39	0.39	Woodside Interceptor (250-1785-SW)
LS1513.00	LS1512.00	LS2218.00	498.7	21	VCP	0.34	1978	0.69	1.92	3.38	0.69	1.92	3.37	0.39	0.39	Woodside Interceptor (250-1785-SE)
LS1514.00	LS1513.00	LS2219.00	162.1	21	VCP	0.34	1978	0.69	1.92	3.37	0.69	1.92	3.37	0.39	0.39	Woodside Interceptor (250-1785-SE)
LS1515.00	LS1514.00	LS2220.00	82.0	21	VCP	2.88	1978	0.69	1.92	3.37	0.43	1.92	6.50	0.39	0.24	Woodside Interceptor (250-1785-SE)
ZZZZ000192	LS1515.00	LS2222.00	41.0	21	VCP	8.85	1974	0.43	1.92	6.48	0.35	1.92	8.81	0.25	0.20	Woodside Interceptor (250-1785-SE)
LS1516.00	ZZZZ000192	LS2223.00	940.0	21	VCP	0.28	1974	0.63	1.92	3.81	0.73	1.92	3.11	0.42	0.42	Woodside Interceptor (250-1785-SE)
LS1517.00	LS1516.00	LS2224.00	995.4	21	VCP	0.27	1974	0.73	1.92	3.11	0.74	1.92	3.09	0.42	0.42	Woodside Interceptor (250-1785-SE)
LS1518.00	LS1517.00	LS2226.00	917.4	21	VCP	0.27	1974	0.74	1.92	3.09	0.74	1.92	3.09	0.42	0.42	Woodside Interceptor (250-1791-SW)
LS1519.00	LS1518.00	LS2227.00	43.0	21	PVC	-0.05	1989	0.74	1.92	3.09	0.86	1.92	2.52	0.49	0.49	Woodside Interceptor (250-1791-SW)
LS1523.00	LS1519.00	LS2234.00	129.3	21	PVC	0.39	1989	0.86	1.23	1.63	0.57	1.23	2.82	0.49	0.32	Woodside Interceptor (250-1791-SW)
LS1524.00	LS1523.00	LS2235.00	670.9	21	VCP	0.31	1974	0.56	1.23	2.89	0.56	1.23	2.87	0.32	0.32	Woodside Interceptor (250-1791-SW)
LS1525.00	LS1524.00	LS2236.00	757.0	21	VCP	0.26	1974	0.56	1.23	2.87	0.59	1.23	2.70	0.34	0.33	Woodside Interceptor (250-1791-SW)
LS1526.00	LS1525.00	LS2237.00	931.9	21	VCP	0.34	1974	0.59	1.23	2.70	0.55	1.23	2.97	0.34	0.31	Woodside Interceptor (250-1791-SW)
LS1527.00	LS1526.00	LS2238.00	68.8	21	VCP	0.12	1989	0.55	1.23	2.97	0.64	1.23	2.40	0.36	0.36	Woodside Interceptor (250-1791-SW)
LS1533.00	LS1527.00	LS2245.00	68.8	21	VCP	1.06	1989	0.64	1.23	2.40	0.45	1.23	3.92	0.36	0.26	Woodside Interceptor (250-1791-SW)
LS1534.00	LS1533.00	LS2246.00	335.3	15	VCP	0.74	1965	0.51	1.23	4.02	0.51	1.23	4.02	0.41	0.41	Woodside Interceptor (250-1791-SW)
LS1535.00	LS1534.00	LS2247.00	362.2	15	VCP	0.79	1965	0.51	1.23	4.01	0.50	1.23	4.12	0.41	0.40	Woodside Interceptor (250-1791-SW)
LS1570.00	LS1535.00	LS2297.00	272.0	15	VCP	0.84	1965	0.50	0.86	2.89	0.41	0.86	3.79	0.40	0.33	Woodside Interceptor (250-1791-SW)
LS1571.00	LS1570.00	LS2299.00	23.0	15	VCP	0.96	1965	0.41	0.85	3.72	0.40	0.85	3.93	0.33	0.32	Woodside Interceptor (250-1791-SW)
LS1578.00	LS1571.00	LS2307.00	480.0	15	VCP	0.82	1965	0.41	0.84	3.75	0.41	0.84	3.75	0.33	0.33	Woodside Interceptor (250-1791-SE)
LS1579.00	LS1578.00	LS2308.00	259.7	15	VCP	0.83	1965	0.41	0.84	3.73	0.41	0.84	3.76	0.33	0.32	Woodside Interceptor (250-1791-SE)
LS1584.00	LS1579.00	LS2314.00	366.9	15	VCP	0.75	1965	0.41	0.82	3.59	0.41	0.82	3.59	0.33	0.33	Woodside Interceptor (250-1791-SE)
LS1599.00	LS1584.00	LS2337.00	450.4	15	VCP	0.82	1965	0.41	0.78	3.42	0.39	0.78	3.70	0.33	0.31	Woodside Interceptor (250-1791-SE)
LS1600.00	LS1599.00	LS2338.00	366.0	15	VCP	0.79	1965	0.39	0.78	3.70	0.39	0.78	3.65	0.31	0.31	Woodside Interceptor (250-1791-SE)
LS1603.00	LS1600.00	LS2342.00	76.0	15	VCP	0.79	1965	0.39	0.77	3.60	0.39	0.77	3.64	0.31	0.31	Woodside Interceptor (246-1791-NE)
LS1604.00	LS1603.00	LS2343.00	439.7	15	VCP	0.88	1965	0.39	0.77	3.63	0.38	0.77	3.80	0.31	0.30	Woodside Interceptor (246-1791-NE)
LS1605.00	LS1604.00	LS2344.00	159.0	15	VCP	0.52	1965	0.43	0.77	3.14	0.44	0.77	3.10	0.35	0.35	Woodside Interceptor (246-1791-NE)
LS1611.00	LS1605.00	LS2353.00	236.0	15	VCP	0.68	1965	0.44	0.76	3.06	0.41	0.76	3.41	0.35	0.32	Woodside Interceptor (246-1791-NE)
LS1612.00	LS1611.00	LS2354.00	402.5	15	VCP	0.75	1965	0.41	0.76	3.40	0.39	0.76	3.56	0.32	0.31	Woodside Interceptor (246-1791-NE)
LS1613.00	LS1612.00	LS2355.00	397.3	15	VCP	0.71	1965	0.40	0.76	3.47	0.40	0.76	3.47	0.32	0.32	Woodside Interceptor (246-1791-NE)
LS1614.00	LS1613.00	LS2356.00	177.0	15	VCP	0.90	1965	0.38	0.76	3.72	0.37	0.76	3.82	0.30	0.30	Woodside Interceptor (246-1791-NE)
LS1619.00	LS1614.00	LS2361.00	211.0	15	VCP	0.63	1965	0.41	0.75	3.30	0.41	0.75	3.30	0.33	0.33	Woodside Interceptor (246-1791-NE)
LS1620.00	LS1619.00	LS2362.00	193.0	15	VCP	1.01	1965	0.41	0.75	3.30	0.38	0.75	3.73	0.33	0.30	Woodside Interceptor (246-1791-SE)
LS1624.00	LS1620.00	LS2367.00	164.0	15	VCP	1.21	1965	0.38	0.75	3.71	0.36	0.75	3.94	0.30	0.29	Woodside Interceptor (246-1791-SE)
LS1631.00	LS1624.00	LS2376.00	31.0	15	VCP	0.10	1965	0.42	0.73	3.12	0.51	0.73	2.43	0.40	0.40	Woodside Interceptor (246-1791-SE)
LS1632.00	LS1631.00	LS2377.00	400.6	15	VCP	0.98	1965	0.51	0.73	2.43	0.36	0.73	3.87	0.41	0.29	Woodside Interceptor (246-1791-SE)
LS1633.00	LS1632.00	LS2378.00	401.2	15	VCP	0.96	1965	0.36	0.73	3.86	0.36	0.73	3.85	0.29	0.29	Woodside Interceptor (246-1791-SE)
LS1636.00	LS1633.00	LS2383.00	382.2	15	VCP	0.97	1965	0.36	0.72	3.84	0.36	0.72	3.84	0.29	0.29	Woodside Interceptor (246-1791-SE)
LS1640.00	LS1636.00	LS2388.00	17.6	15	VCP	1.02	1965	0.36	0.72	3.81	0.37	0.72	3.71	0.29	0.29	Woodside Interceptor (246-1791-SE)
LS1641.00	LS1640.00	LS2389.00	373.2	15	VCP	1.40	1965	0.37	0.72	3.70	0.35	0.72	4.00	0.29	0.28	Woodside Interceptor (246-1791-SE)
LS1642.00	LS1641.00	LS2390.00	243.0	8	VCP	0.40	1975	0.35	0.09	0.78	0.20	0.09	1.56	0.52	0.31	Woodside Interceptor (242-1791-NE)
LS1643.00	LS1642.00	LS2391.00	250.0	8	VCP	0.40	1975	0.20	0.09	1.56	0.20	0.09	1.57	0.31	0.31	Woodside Interceptor (242-1791-NE)
LS1644.00	LS1643.00	LS2392.00	147.4	8	VCP	3.60	1975	0.20	0.09	1.57	0.13	0.09	2.93	0.31	0.20	Woodside Interceptor (242-1791-NE)
LS1693.00	LS1641.00	LS2468.00	407.5	15	VCP	1.16	1965	0.35	0.63	3.49	0.34	0.63	3.58	0.28	0.27	Woodside Interceptor (242-1791-NE)
LS1694.00	LS1693.00	LS2471.00	20.0	15	VCP	1.00	1965	0.34	0.63	3.57	0.35	0.63	3.45	0.28	0.28	Woodside Interceptor (242-1791-NE)
LS1695.00	LS1694.00	LS2472.00	374.2	10	VCP	0.53	1965	0.44	0.63	3.30	0.48	0.63	3.01	0.57	0.57	Woodside Interceptor (242-1791-NE)
LS1696.00	LS1695.00	LS2473.00	369.6	8	VCP	3.86	1965	0.30	0.63	6.24	0.30	0.63	6.24	0.46	0.46	Woodside Interceptor (242-1791-NE)
LS1697.00	LS1696.00	LS2474.00	371.6	8	VCP	5.45	1965	0.31	0.63	6.22	0.28	0.63	6.97	0.46	0.42	Woodside Interceptor (242-1797-NW)
LS1698.00	LS1697.00	LS2475.00	371.5	8	VCP	4.60	1965	0.29	0.63	6.66	0.29	0.63	6.66	0.43	0.44	Woodside Interceptor (242-1797-NW)

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US Node ID	DS Node ID	Asset ID	Length (ft)	Diameter (in)	Conduit Material	Gradient (%)	Year Installed	Max DS Depth (ft)	Max DS Flow (MGD)	Max DS Velocity (ft/s)	Max US Depth (ft)	Max US Flow (MGD)	Max US Velocity (ft/s)	Max Surcharge State	d/D	Trunk Sewer / Map Book Page
LS1719.00	LS1698.00	LS2519.00	350.5	8	VCP	5.24	1965	0.29	0.58	6.20	0.27	0.58	6.71	0.44	0.41	Woodside Interceptor (242-1797-NW)
LS1720.00	LS1719.00	LS2520.00	289.7	8	VCP	4.32	1965	0.29	0.58	6.34	0.29	0.58	6.34	0.43	0.43	Woodside Interceptor (242-1797-NW)
LS1721.00	LS1720.00	LS2521.00	304.9	8	VCP	2.83	1965	0.32	0.58	5.41	0.32	0.58	5.41	0.48	0.48	Woodside Interceptor (242-1797-NW)
LS1725.00	LS1721.00	LS2528.00	485.3	8	VCP	2.62	1965	0.32	0.56	5.21	0.32	0.56	5.21	0.48	0.48	Woodside Interceptor (242-1797-SW)
LS1731.00	LS1725.00	LS2538.00	211.9	8	VCP	0.93	1965	0.43	0.55	3.57	0.43	0.55	3.57	0.64	0.64	Woodside Interceptor (242-1797-SW)
LS1733.00	LS1731.00	LS2541.00	351.8	8	VCP	2.83	1965	0.44	0.54	3.49	0.31	0.54	5.35	0.65	0.46	Woodside Interceptor (242-1797-SW)
LS1734.00	LS1733.00	LS2542.00	270.9	8	VCP	1.30	1965	0.38	0.54	4.05	0.38	0.54	4.05	0.57	0.57	Woodside Interceptor (242-1797-SW)
LS1735.00	LS1734.00	LS2543.00	266.5	8	VCP	0.93	1965	0.43	0.54	3.56	0.43	0.54	3.56	0.64	0.64	Woodside Interceptor (242-1797-SW)
LS1754.00	LS1735.00	LS2563.00	282.1	8	VCP	0.33	1965	0.36	0.37	2.98	0.47	0.37	2.18	0.71	0.71	Woodside Interceptor (242-1797-SW)
LS1767.00	LS1754.00	LS2578.00	12.0	8	Unk	0.00		0.48	0.32	1.88	0.51	0.32	1.75	0.76	0.76	Woodside Interceptor (242-1797-SW)
LS1768.00	LS1767.00	LS2579.00	72.8	8	VCP	0.45	1968	0.51	0.32	1.74	0.40	0.32	2.28	0.76	0.60	Woodside Interceptor (242-1797-SW)
LS1789.00	LS1768.00	LS2607.00	249.2	8	VCP	0.65	1965	0.40	0.26	1.84	0.31	0.26	2.57	0.60	0.46	Woodside Interceptor (242-1797-SW)
LS1790.00	LS1789.00	LS2608.00	290.4	8	VCP	5.15	1966	0.31	0.26	2.57	0.19	0.26	5.08	0.46	0.28	Woodside Interceptor (242-1797-SW)
LS1815.00	LS1790.00	LS2636.00	280.0	8	VCP	5.05	1966	0.19	0.22	4.26	0.17	0.22	4.71	0.28	0.26	Woodside Interceptor (242-1797-SW)
LS1816.00	LS1815.00	LS2637.00	306.5	8	VCP	0.39	1966	0.28	0.22	2.48	0.33	0.22	2.01	0.49	0.49	Woodside Interceptor (242-1797-SE)
LS1817.00	LS1816.00	LS2638.00	126.0	8	VCP	0.30	1966	0.33	0.22	2.01	0.34	0.22	1.88	0.51	0.51	Woodside Interceptor (242-1797-SE)
LS1821.00	LS1817.00	LS2650.00	189.0	8	VCP	0.41	1966	0.34	0.16	1.41	0.27	0.16	1.89	0.52	0.41	Woodside Interceptor (242-1797-SE)
LS1822.00	LS1821.00	LS2651.00	211.7	8	VCP	2.64	1966	0.27	0.16	1.89	0.18	0.16	3.45	0.41	0.26	Woodside Interceptor (242-1797-SE)
LS1829.00	LS1822.00	LS2666.00	198.7	8	VCP	2.39	1966	0.18	0.15	3.10	0.17	0.15	3.22	0.26	0.26	Woodside Interceptor (242-1797-SE)
LS1831.00	LS1829.00	LS2669.00	334.7	8	VCP	1.56	1966	0.19	0.14	3.01	0.19	0.14	2.80	0.28	0.28	Woodside Interceptor (242-1797-SE)
LS1841.00	LS1831.00	LS2683.00	367.8	8	VCP	4.01	1966	0.19	0.12	2.38	0.14	0.12	3.49	0.28	0.21	Woodside Interceptor (242-1797-SE)
LS1842.00	LS1841.00	LS2684.00	362.0	8	VCP	4.17	1963	0.14	0.12	3.40	0.14	0.12	3.48	0.21	0.21	Woodside Interceptor (242-1797-SE)
LS1854.00	LS1842.00	LS2700.00	436.1	8	VCP	2.86	1966	0.14	0.10	2.89	0.14	0.10	2.89	0.21	0.21	Woodside Interceptor (242-1797-SE)
LS1872.00	LS1854.00	LS2727.00	257.0	8	VCP	5.50	1966	0.14	0.05	1.49	0.10	0.05	2.44	0.21	0.15	Woodside Interceptor (242-1797-SE)
LS1876.00	LS1872.00	LS2734.00	118.0	8	VCP	5.54	1966	0.10	0.04	1.98	0.10	0.04	2.13	0.15	0.14	Woodside Interceptor (242-1797-SE)
LS1520.00	LS1519.00	LS2228.00	741.9	15	PVC	0.31	1989	0.86	0.63	1.11	0.45	0.63	2.46	0.69	0.36	Woodside Interceptor (250-1791-SW)
LS0016.00	LS0015.00	LS0014.00	15.0	21	VCP	8.67	1976	1.48	0.00	0.00	0.25	0.00	0.00	0.85	0.14	Collector (242-1767-NW)
LS0023.00	LS0022.00	LS0023.00	16.7	12	VCP	2.76	1976	0.12	0.00	0.00	0.10	0.00	0.00	0.12	0.10	Collector (242-1767-NE)
LS0032.00	LS0031.00	LS0033.00	20.5	18	VCP	4.73	1976	1.08	0.00	0.00	0.20	0.00	0.00	0.72	0.13	Collector (246-1767-SE)
LS0048.00	LS0047.00	LS0055.00	13.5	18	PVC	3.70	2004	0.60	0.00	0.00	0.18	0.00	0.00	0.40	0.12	Collector (246-1773-SE)
LS0055.00	LS0054.00	LS0064.00	22.0	30	VCP	0.77	1976	1.52	2.63	1.34	1.35	2.63	2.02	0.61	0.54	Collector (246-1773-NE)
LS0005.00	LS0004.00	LS0005.00	36.7	24	PVC	2.18	1999	0.20	0.00	0.00	0.20	0.00	0.00	0.10	0.10	Collector (242-1767-NW)
LS0006.00	LS0005.00	LS0006.00	139.0	24	VCP	0.50	1976	0.10	0.00	0.00	0.10	0.00	0.00	0.05	0.05	Collector (242-1767-NW)
LS0009.83	LS0006.00	LS0023.00	285.0	16	AC	-3.65	1976	0.13	0.00	0.00	0.13	0.00	0.00	0.10	0.10	Collector (242-1767-NW)
LS0009.82	LS0009.83	LS0022.00	220.0	16	AC	0.11	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0009.00	LS0009.82	LS0021.00	210.0	16	AC	0.12	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0009.81	LS0006.00	LS0020.00	285.0	14	AC	-3.65	1976	0.12	0.00	0.00	0.12	0.00	0.00	0.10	0.10	Collector (242-1767-NW)
LS0009.80	LS0009.81	LS0019.00	220.0	14	AC	0.11	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
LS0009.00	LS0009.80	LS0018.00	210.0	14	AC	0.12	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
LS0008.85	LS0009.00	LS0017.00	85.0	16	AC	0.29	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0008.84	LS0008.85	LS0016.00	265.0	16	AC	0.19	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0008.83	LS0008.84	LS0015.00	260.0	16	AC	0.10	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0008.00	LS0008.83	LS0014.00	150.0	16	AC	0.03	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0008.82	LS0009.00	LS0013.00	85.0	14	AC	0.29	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
LS0008.81	LS0008.82	LS0012.00	265.0	14	AC	0.19	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
LS0008.80	LS0008.81	LS0011.00	260.0	14	AC	0.10	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
LS0008.00	LS0008.80	LS0010.00	150.0	14	AC	0.03	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
LS0007.81	LS0008.00	LS0009.00	130.0	16	AC	0.08	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
XXXX000003	LS0007.81	LS0008.00	80.0	16	AC	0.06	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0007.00	XXXX000003	LS0007.00	100.0	16	DI	9.00	1976	0.13	0.00	0.00	0.13	0.00	0.00	0.10	0.10	Collector (246-1767-SW)
LS0007.80	LS0008.00	LS0006.00	130.0	14	AC	0.08	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
XXXX000002	LS0007.80	LS0005.00	80.0	14	AC	0.06	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.06	0.06	Collector (246-1767-SW)
LS0007.00	XXXX000002	LS0004.00	100.0	14	DI	9.00	1976	0.12	0.00	0.00	0.12	0.00	0.00	0.10	0.10	Collector (246-1767-SW)
LS0000.81	LS0007.00	LS0003.00	260.0	16	DI	0.40	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
LS0000.80	LS0000.81	LS0002.00	320.0	16	DI	0.63	1976	0.07	0.00	0.00	0.07	0.00	0.00	0.05	0.05	Collector (246-1767-SW)
XXXX000004	LS0000.80	LS0001.00	130.0	16	DI	2.86	1976	0.13	0.00	0.00	0.13	0.00	0.00	0.10	0.10	Collector (246-1767-NW)
LS0280.00	LS0279.00	LS0402.00	91.6	8	VCP	0.46	1966	0.09	0.01	0.69	0.10	0.01	0.65	0.14	0.14	Collector (242-1797-NW)
LS0281.00	LS0280.00	LS0403.00	112.9	8	VCP	2.91	1966	0.10	0.01	0.65	0.08	0.01	0.82	0.14	0.12	Collector (242-1797-NW)
LS0282.00	LS0281.00	LS0404.00	207.5	8	VCP	3.06	1966	0.08	0.01	0.82	0.08	0.01	0.83	0.12	0.12	Collector (242-1797-NW)
LS0283.00	LS0282.00	LS0405.00	245.6	8	VCP	2.14	1966	0.08	0.01	0.83	0.08	0.01	0.80	0.12	0.12	Collector (242-1797-NW)
LS0284.00	LS0283.00	LS0407.00	79.2	8	VCP	2.02	1966	0.08	0.01	0.80	0.08	0.01	0.79	0.12	0.12	Collector (242-1797-NW)

Alpine and Lakeside Sanitation Districts Sewer Master Plan Update
Ultimate Dry Weather Flow Model Results

US Node ID	DS Node ID	Asset ID	Length (ft)	Conduit Material	Gradient (%)	Year Installed	Max DS Depth (ft)	Max DS Flow (MGD)	Max DS Velocity (ft/s)	Max US Depth (ft)	Max US Flow (MGD)	Max US Velocity (ft/s)	Trunk Sewer / Map Book Page
LS1126.00	LS1123.00	LS1605.00	152.0	VCP	1.55	1965	0.32	0.43	4.00	0.32	0.43	4.00	Winter Gardens Trunk (242-1785-NE)
LS1127.00	LS1126.00	LS1606.00	220.0	VCP	4.76	1965	0.32	0.43	4.00	0.24	0.43	5.96	Winter Gardens Trunk (242-1785-NE)
LS1179.00	LS1127.00	LS1701.00	132.2	VCP	5.68	1965	0.24	0.22	3.07	0.17	0.22	4.92	Winter Gardens Trunk (242-1785-NE)
ZZZZ000201	LS0064.00	LS0077.00	5.0	VCP	3.80	1979	1.45	8.61	4.92	1.29	8.61	5.68	Woodside Interceptor (250-1785-SW)
LS0065.00	ZZZZ000201	LS0078.00	233.0	VCP	0.21	1978	1.29	8.61	5.63	1.59	8.61	4.45	Woodside Interceptor (250-1785-SW)
LS0066.00	LS0065.00	LS0079.00	620.0	VCP	0.20	1978	1.60	8.61	4.41	1.78	8.61	3.96	Woodside Interceptor (250-1785-SW)
LS0067.00	LS0066.00	LS0080.00	63.0	VCP	0.89	1978	1.79	8.61	3.93	1.42	8.61	5.24	Woodside Interceptor (250-1785-SW)
LS0882.00	LS0067.00	LS1233.00	187.0	VCP	0.09	1978	1.43	3.46	2.33	1.38	3.47	2.29	Woodside Interceptor (250-1785-SW)
LS0883.00	LS0882.00	LS1234.00	329.0	VCP	0.21	1978	1.38	3.47	2.29	1.03	3.47	3.09	Woodside Interceptor (250-1785-SW)
LS0884.00	LS0883.00	LS1235.00	101.8	VCP	0.12	1978	0.79	3.47	4.29	0.97	3.47	3.29	Woodside Interceptor (250-1785-SW)
LS1510.00	LS0884.00	LS2215.00	389.0	VCP	0.47	1978	0.97	2.07	2.35	0.65	2.07	3.91	Woodside Interceptor (250-1785-SW)
LS1511.00	LS1510.00	LS2216.00	441.9	VCP	0.34	1978	0.65	2.07	3.91	0.72	2.07	3.42	Woodside Interceptor (250-1785-SW)
LS1512.00	LS1511.00	LS2217.00	449.0	VCP	0.34	1978	0.72	2.07	3.42	0.72	2.07	3.43	Woodside Interceptor (250-1785-SW)
LS1513.00	LS1512.00	LS2218.00	498.7	VCP	0.34	1978	0.72	2.07	3.42	0.72	2.07	3.42	Woodside Interceptor (250-1785-SE)
LS1514.00	LS1513.00	LS2219.00	162.1	VCP	0.34	1978	0.72	2.07	3.42	0.72	2.07	3.42	Woodside Interceptor (250-1785-SE)
LS1515.00	LS1514.00	LS2220.00	82.0	VCP	2.88	1978	0.72	2.07	3.42	0.45	2.07	6.65	Woodside Interceptor (250-1785-SE)
ZZZZ000192	LS1515.00	LS2222.00	41.0	VCP	8.85	1974	0.45	2.07	6.64	0.36	2.07	9.16	Woodside Interceptor (250-1785-SE)
LS1516.00	ZZZZ000192	LS2223.00	940.0	VCP	0.28	1974	0.65	2.07	3.91	0.76	2.07	3.22	Woodside Interceptor (250-1785-SE)
LS1517.00	LS1516.00	LS2224.00	995.4	VCP	0.27	1974	0.76	2.07	3.22	0.76	2.07	3.20	Woodside Interceptor (250-1785-SE)
LS1518.00	LS1517.00	LS2226.00	917.4	VCP	0.27	1974	0.76	2.07	3.20	0.76	2.07	3.20	Woodside Interceptor (250-1791-SW)
LS1519.00	LS1518.00	LS2227.00	43.0	PVC	-0.05	1989	0.76	2.07	3.20	0.89	2.07	2.61	Woodside Interceptor (250-1791-SW)
LS1523.00	LS1519.00	LS2234.00	129.3	PVC	0.39	1989	0.89	1.48	1.87	0.62	1.48	3.01	Woodside Interceptor (250-1791-SW)
LS1524.00	LS1523.00	LS2235.00	670.9	VCP	0.31	1974	0.61	1.48	3.08	0.62	1.48	3.02	Woodside Interceptor (250-1791-SW)
LS1525.00	LS1524.00	LS2236.00	757.0	VCP	0.26	1974	0.62	1.48	3.02	0.64	1.48	2.89	Woodside Interceptor (250-1791-SW)
LS1526.00	LS1525.00	LS2237.00	931.9	VCP	0.34	1974	0.64	1.48	2.89	0.61	1.48	3.10	Woodside Interceptor (250-1791-SW)
LS1527.00	LS1526.00	LS2238.00	68.8	VCP	0.12	1989	0.61	1.48	3.10	0.70	1.48	2.55	Woodside Interceptor (250-1791-SW)
LS1533.00	LS1527.00	LS2245.00	68.8	VCP	1.06	1989	0.70	1.48	2.55	0.49	1.48	4.19	Woodside Interceptor (250-1791-SW)
LS1534.00	LS1533.00	LS2246.00	335.3	VCP	0.74	1965	0.56	1.48	4.30	0.56	1.48	4.30	Woodside Interceptor (250-1791-SW)
LS1535.00	LS1534.00	LS2247.00	362.2	VCP	0.79	1965	0.56	1.48	4.30	0.55	1.48	4.41	Woodside Interceptor (250-1791-SW)
LS1570.00	LS1535.00	LS2297.00	272.0	VCP	0.84	1965	0.55	1.15	3.43	0.47	1.15	4.19	Woodside Interceptor (250-1791-SW)
LS1571.00	LS1570.00	LS2299.00	23.0	VCP	0.96	1965	0.47	1.15	4.18	0.46	1.15	4.35	Woodside Interceptor (250-1791-SW)
LS1578.00	LS1571.00	LS2307.00	480.0	VCP	0.82	1965	0.47	1.13	4.14	0.47	1.13	4.14	Woodside Interceptor (250-1791-SE)
LS1579.00	LS1578.00	LS2308.00	259.7	VCP	0.83	1965	0.47	1.13	4.13	0.47	1.13	4.16	Woodside Interceptor (250-1791-SE)
LS1584.00	LS1579.00	LS2314.00	366.9	VCP	0.75	1965	0.48	1.12	3.97	0.48	1.12	3.97	Woodside Interceptor (250-1791-SE)
LS1599.00	LS1584.00	LS2337.00	450.4	VCP	0.82	1965	0.48	1.06	3.77	0.46	1.06	4.06	Woodside Interceptor (250-1791-SE)
LS1600.00	LS1599.00	LS2338.00	366.0	VCP	0.79	1965	0.46	1.06	4.06	0.46	1.06	4.01	Woodside Interceptor (250-1791-SE)
LS1603.00	LS1600.00	LS2342.00	76.0	VCP	0.79	1965	0.46	1.04	3.93	0.45	1.04	3.98	Woodside Interceptor (246-1791-NE)
LS1604.00	LS1603.00	LS2343.00	439.7	VCP	0.88	1965	0.45	1.04	3.98	0.44	1.04	4.10	Woodside Interceptor (246-1791-NE)
LS1605.00	LS1604.00	LS2344.00	159.0	VCP	0.52	1965	0.51	1.04	3.45	0.52	1.04	3.36	Woodside Interceptor (246-1791-NE)
LS1611.00	LS1605.00	LS2353.00	236.0	VCP	0.68	1965	0.52	1.01	3.29	0.47	1.01	3.76	Woodside Interceptor (246-1791-NE)
LS1612.00	LS1611.00	LS2354.00	402.5	VCP	0.75	1965	0.47	1.01	3.75	0.45	1.01	3.89	Woodside Interceptor (246-1791-NE)
LS1613.00	LS1612.00	LS2355.00	397.3	VCP	0.71	1965	0.46	1.01	3.81	0.46	1.01	3.81	Woodside Interceptor (246-1791-NE)
LS1614.00	LS1613.00	LS2356.00	177.0	VCP	0.90	1965	0.44	1.01	4.05	0.44	1.01	4.09	Woodside Interceptor (246-1791-NE)
LS1619.00	LS1614.00	LS2361.00	211.0	VCP	0.63	1965	0.47	1.00	3.64	0.47	1.00	3.64	Woodside Interceptor (246-1791-NE)
LS1620.00	LS1619.00	LS2362.00	193.0	VCP	1.01	1965	0.47	1.00	3.64	0.44	1.00	4.06	Woodside Interceptor (246-1791-SE)
LS1624.00	LS1620.00	LS2367.00	164.0	VCP	1.21	1965	0.44	1.00	4.02	0.42	1.00	4.29	Woodside Interceptor (246-1791-SE)
LS1631.00	LS1624.00	LS2376.00	31.0	VCP	0.10	1965	0.49	0.98	3.40	0.58	0.98	2.71	Woodside Interceptor (246-1791-SE)
LS1632.00	LS1631.00	LS2377.00	400.6	VCP	0.98	1965	0.58	0.98	2.71	0.42	0.98	4.15	Woodside Interceptor (246-1791-SE)
LS1633.00	LS1632.00	LS2378.00	401.2	VCP	0.96	1965	0.42	0.98	4.14	0.42	0.98	4.12	Woodside Interceptor (246-1791-SE)
LS1636.00	LS1633.00	LS2383.00	382.2	VCP	0.97	1965	0.42	0.96	4.13	0.42	0.96	4.13	Woodside Interceptor (246-1791-SE)
LS1640.00	LS1636.00	LS2388.00	17.6	VCP	1.02	1965	0.42	0.96	4.09	0.43	0.96	4.02	Woodside Interceptor (246-1791-SE)
LS1641.00	LS1640.00	LS2389.00	373.2	VCP	1.40	1965	0.43	0.96	4.02	0.39	0.96	4.49	Woodside Interceptor (246-1791-SE)
LS1642.00	LS1641.00	LS2390.00	243.0	VCP	0.40	1975	0.39	0.17	1.27	0.28	0.17	1.91	Woodside Interceptor (242-1791-NE)
LS1643.00	LS1642.00	LS2391.00	250.0	VCP	0.40	1975	0.28	0.17	1.91	0.28	0.17	1.92	Woodside Interceptor (242-1791-NE)
LS1644.00	LS1643.00	LS2392.00	147.4	VCP	3.60	1975	0.28	0.17	1.91	0.17	0.17	3.90	Woodside Interceptor (242-1791-NE)
LS1693.00	LS1641.00	LS2468.00	407.5	VCP	1.16	1965	0.39	0.78	3.68	0.37	0.78	3.97	Woodside Interceptor (242-1791-NE)
LS1694.00	LS1693.00	LS2471.00	20.0	VCP	1.00	1965	0.37	0.78	3.96	0.38	0.78	3.81	Woodside Interceptor (242-1791-NE)
LS1695.00	LS1694.00	LS2472.00	374.2	VCP	0.53	1965	0.50	0.78	3.59	0.55	0.78	3.20	Woodside Interceptor (242-1791-NE)
LS1696.00	LS1695.00	LS2473.00	369.6	VCP	3.86	1965	0.34	0.78	6.69	0.34	0.78	6.69	Woodside Interceptor (242-1791-NE)
LS1697.00	LS1696.00	LS2474.00	371.6	VCP	5.45	1965	0.35	0.78	6.60	0.32	0.78	7.45	Woodside Interceptor (242-1797-NW)
LS1698.00	LS1697.00	LS2475.00	371.5	VCP	4.60	1965	0.33	0.78	7.03	0.33	0.78	7.03	Woodside Interceptor (242-1797-NW)

US Node ID	DS Node ID	Asset ID	Length (ft)	Conduit Material	Gradient (%)	Year Installed	Max DS Depth (ft)	Max DS Flow (MGD)	Max DS Velocity (ft/s)	Max US Depth (ft)	Max US Flow (MGD)	Max US Velocity (ft/s)	Trunk Sewer / Map Book Page
LS1719.00	LS1698.00	LS2519.00	350.5	VCP	5.24	1965	0.33	0.70	6.30	0.30	0.70	7.23	Woodside Interceptor (242-1797-NW)
LS1720.00	LS1719.00	LS2520.00	289.7	VCP	4.32	1965	0.32	0.70	6.64	0.32	0.70	6.64	Woodside Interceptor (242-1797-NW)
LS1721.00	LS1720.00	LS2521.00	304.9	VCP	2.83	1965	0.36	0.70	5.75	0.36	0.70	5.75	Woodside Interceptor (242-1797-NW)
LS1725.00	LS1721.00	LS2528.00	485.3	VCP	2.62	1965	0.36	0.66	5.29	0.35	0.66	5.53	Woodside Interceptor (242-1797-SW)
LS1731.00	LS1725.00	LS2538.00	211.9	VCP	0.93	1965	0.48	0.63	3.68	0.48	0.63	3.67	Woodside Interceptor (242-1797-SW)
LS1733.00	LS1731.00	LS2541.00	351.8	VCP	2.83	1965	0.49	0.63	3.55	0.33	0.63	5.56	Woodside Interceptor (242-1797-SW)
LS1734.00	LS1733.00	LS2542.00	270.9	VCP	1.30	1965	0.42	0.63	4.14	0.42	0.63	4.14	Woodside Interceptor (242-1797-SW)
LS1735.00	LS1734.00	LS2543.00	266.5	VCP	0.93	1965	0.47	0.63	3.66	0.47	0.63	3.64	Woodside Interceptor (242-1797-SW)
LS1754.00	LS1735.00	LS2563.00	282.1	VCP	0.33	1965	0.44	0.55	3.49	1.04	0.55	2.34	Woodside Interceptor (242-1797-SW)
LS1767.00	LS1754.00	LS2578.00	12.0	Unk	0.00		1.07	0.47	2.00	1.11	0.47	2.00	Woodside Interceptor (242-1797-SW)
LS1768.00	LS1767.00	LS2579.00	72.8	VCP	0.45	1968	1.13	0.47	2.00	1.08	0.47	2.30	Woodside Interceptor (242-1797-SW)
LS1789.00	LS1768.00	LS2607.00	249.2	VCP	0.65	1965	1.09	0.46	2.20	0.45	0.46	2.94	Woodside Interceptor (242-1797-SW)
LS1790.00	LS1789.00	LS2608.00	290.4	VCP	5.15	1966	0.45	0.46	2.91	0.24	0.46	6.26	Woodside Interceptor (242-1797-SW)
LS1815.00	LS1790.00	LS2636.00	280.0	VCP	5.05	1966	0.24	0.40	5.49	0.23	0.40	5.87	Woodside Interceptor (242-1797-SW)
LS1816.00	LS1815.00	LS2637.00	306.5	VCP	0.39	1966	0.38	0.40	3.07	0.48	0.40	2.35	Woodside Interceptor (242-1797-SE)
LS1817.00	LS1816.00	LS2638.00	126.0	VCP	0.30	1966	0.48	0.40	2.33	0.52	0 40	2.14	Woodside Interceptor (242-1797-SE)
LS1821.00	LS1817.00	LS2650.00	189.0	VCP	0.41	1966	0.53	0.37	1.96	0.43	0 37	2.40	Woodside Interceptor (242-1797-SE)
LS1822.00	LS1821.00	LS2651.00	211.7	VCP	2.64	1966	0.44	0.37	2.38	0.26	0 37	4.66	Woodside Interceptor (242-1797-SE)
LS1829.00	LS1822.00	LS2666.00	198.7	VCP	2.39	1966	0.26	0.31	3.93	0.24	0.31	4.28	Woodside Interceptor (242-1797-SE)
LS1831.00	LS1829.00	LS2669.00	334.7	VCP	1.56	1966	0.27	0.31	3.62	0.27	0.31	3.62	Woodside Interceptor (242-1797-SE)
LS1841.00	LS1831.00	LS2683.00	367.8	VCP	4.01	1966	0.27	0.27	3.18	0.20	0.27	4.83	Woodside Interceptor (242-1797-SE)
LS1842.00	LS1841.00	LS2684.00	362.0	VCP	4.17	1963	0.20	0.26	4.62	0.19	0.26	4.79	Woodside Interceptor (242-1797-SE)
LS1854.00	LS1842.00	LS2700.00	436.1	VCP	2.86	1966	0.19	0.14	2.60	0.16	0.14	3.37	Woodside Interceptor (242-1797-SE)
LS1872.00	LS1854.00	LS2727.00	257.0	VCP	5.50	1966	0.16	0.07	1.58	0.11	0.07	2.81	Woodside Interceptor (242-1797-SE)
LS1876.00	LS1872.00	LS2734.00	118.0	VCP	5.54	1966	0.11	0.05	2.13	0.10	0.05	2.40	Woodside Interceptor (242-1797-SE)
LS1520.00	LS1519.00	LS2228.00	741.9	PVC	0.31	1989	0.89	0.59	0.98	0.44	0.59	2.39	Woodside Interceptor (250-1791-SW)
LS0016.00	LS0015.00	LS0014.00	15.0	VCP	8.67	1976	1.54	0.00	0.00	0.28	0.00	0.00	Collector (242-1767-NW)
LS0023.00	LS0022.00	LS0023.00	16.7	VCP	2.76	1976	0.77	0.00	-0.01	0.31	0 00	-0.01	Collector (242-1767-NE)
LS0032.00	LS0031.00	LS0033.00	20.5	VCP	4.73	1976	1.38	0.00	0.00	0.42	0.00	0.00	Collector (246-1767-SE)
LS0048.00	LS0047.00	LS0055.00	13.5	PVC	3.70	2004	1.35	0.00	-0.01	0.85	0 00	-0.01	Collector (246-1773-SE)
LS0055.00	LS0054.00	LS0064.00	22.0	VCP	0.77	1976	2.65	4.20	1.34	2.49	4.20	1.66	Collector (246-1773-NE)
LS0005.00	LS0004.00	LS0005.00	36.7	PVC	2.18	1999	0.20	0.00	0.00	0.20	0.00	0.00	Collector (242-1767-NW)
LS0006.00	LS0005.00	LS0006.00	139.0	VCP	0.50	1976	0.10	0.00	0.00	0.10	0.00	0.00	Collector (242-1767-NW)
LS0009.83	LS0006.00	LS0023.00	285.0	AC	-3.65	1976	0.13	0.00	0.00	0.13	0.00	0.00	Collector (242-1767-NW)
LS0009.82	LS0009.83	LS0022.00	220.0	AC	0.11	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0009.00	LS0009.82	LS0021.00	210.0	AC	0.12	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0009.81	LS0006.00	LS0020.00	285.0	AC	-3.65	1976	0.12	0.00	0.00	0.12	0.00	0.00	Collector (242-1767-NW)
LS0009.80	LS0009.81	LS0019.00	220.0	AC	0.11	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0009.00	LS0009.80	LS0018.00	210.0	AC	0.12	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0008.85	LS0009.00	LS0017.00	85.0	AC	0.29	1976	0.07	0.00	0.00	0.07	0 00	0.00	Collector (246-1767-SW)
LS0008.84	LS0008.85	LS0016.00	265.0	AC	0.19	1976	0.07	0.00	0.00	0.07	0 00	0.00	Collector (246-1767-SW)
LS0008.83	LS0008.84	LS0015.00	260.0	AC	0.10	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0008.00	LS0008.83	LS0014.00	150.0	AC	0.03	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0008.82	LS0009.00	LS0013.00	85.0	AC	0.29	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0008.81	LS0008.82	LS0012.00	265.0	AC	0.19	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0008.80	LS0008.81	LS0011.00	260.0	AC	0.10	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0008.00	LS0008.80	LS0010.00	150.0	AC	0.03	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0007.81	LS0008.00	LS0009.00	130.0	AC	0.08	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
XXXX000003	LS0007.81	LS0008.00	80.0	AC	0.06	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0007.00	XXXX000003	LS0007.00	100.0	DI	9.00	1976	0.13	0.00	0.00	0.13	0.00	0.00	Collector (246-1767-SW)
LS0007.80	LS0008.00	LS0006.00	130.0	AC	0.08	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
XXXX000002	LS0007.80	LS0005.00	80.0	AC	0.06	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0007.00	XXXX000002	LS0004.00	100.0	DI	9.00	1976	0.12	0.00	0.00	0.12	0.00	0.00	Collector (246-1767-SW)
LS0000.81	LS0007.00	LS0003.00	260.0	DI	0.40	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
LS0000.80	LS0000.81	LS0002.00	320.0	DI	0.63	1976	0.07	0.00	0.00	0.07	0.00	0.00	Collector (246-1767-SW)
XXXX000004	LS0000.80	LS0001.00	130.0	DI	2.86	1976	0.13	0.00	0.00	0.13	0.00	0.00	Collector (246-1767-NW)
LS0280.00	LS0279.00	LS0402.00	91.6	VCP	0.46	1966	0.11	0.02	1.03	0.12	0.02	0.93	Collector (242-1797-NW)
LS0281.00	LS0280.00	LS0403.00	112.9	VCP	2.91	1966	0.12	0.02	0.93	0.09	0.02	1.35	Collector (242-1797-NW)
LS0282.00	LS0281.00	LS0404.00	207.5	VCP	3.06	1966	0.09	0.02	1.35	0.09	0.02	1.36	Collector (242-1797-NW)
LS0283.00	LS0282.00	LS0405.00	245.6	VCP	2.14	1966	0.09	0.02	1.36	0.09	0.02	1.29	Collector (242-1797-NW)
LS0284.00	LS0283.00	LS0407.00	79.2	VCP	2.02	1966	0.09	0.02	1.29	0.09	0.02	1.28	Collector (242-1797-NW)

GENERAL NOTES

1. A PERMIT SHALL BE OBTAINED FROM THE COUNTY DEPARTMENT OF TRANSPORTATION FOR ANY WORK WITHIN THE STREET RIGHT-OF-WAY.
2. THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARDS AND AS APPROVED BY THE MATERIALS LABORATORY.
3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
4. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.
5. THE EXISTANCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
7. THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS & ELECTRIC COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
   NOTICE: ALL ELECTRICAL AND GAS SERVICES WITHIN THIS PROJECT ARE "UNDERGROUND INSTALLATIONS". FOR LOCATION OF ELECTRICAL CABLES AND GAS PIPING AND APPURTENANCES CONTACT THE SAN DIEGO GAS & ELECTRIC COMPANY.
   TELEPHONE: 235-6323
8. THE CONTRACTOR SHALL NOTIFY THE PACIFIC TELEPHONE COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
   NOTICE: ALL TELEPHONE SERVICES WITHIN THIS PROJECT BOUNDARY ARE "UNDERGROUND INSTALLATIONS". FOR LOCATION OF CABLES AND APPURTENANCES CONTACT THE PACIFIC TELEPHONE COMPANY.
   TELEPHONE: 295-0595.
9. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS, AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
10. ALL TELEVISION SERVICES WITHIN THIS PROJECT ARE "UNDERGROUND INSTALLATIONS". FOR LOCATION OF CABLES AND APPUTENANCES CONTACT TELEPHONE: 262-1122
11. POWER SOURCES AND RUNS SERVING STREET LIGHTS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY, OR WITHIN EASEMENTS DEDICATED TO THE COUNTY OF SAN DIEGO.
12. NO PAVING SHALL BE DONE UNTIL ALL EXISTING POWER POLES ARE REMOVED OUTSIDE THE AREAS TO BE PAVED.
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT HELIX WATER DISTRICT 48 HOURS PRIOR TO COMMENCING WORK AT (619) 466-0385 AND UNDERGROUND SERVICE ALERT FOR LOCATION OF EXISTING WATER FACILITIES AT 1-800-422-4133.
14. INSTALL COPPER WIRE ENTIRE LENGTH OF WATER MAIN.
15. APPROVAL OF PLANS BY HELIX WATER DISTRICT DOES NOT CONSTITUTE RESPONSIBILITY FOR ACCURACY OF INFORMATION NOR LOCATIONS OF ANY EXISTING UTILITIES.

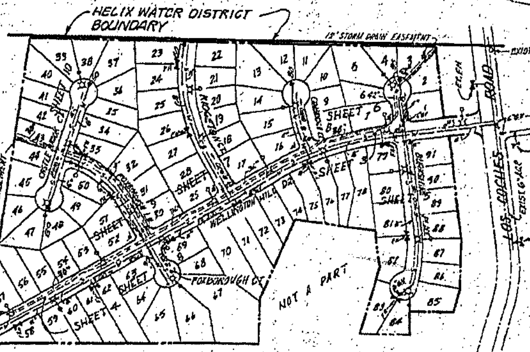
SEWER NOTES

"All work shall be done in accordance with the Standard Specification for Public Works Construction, 1979 Edition, the 1979 San Diego Standard Special Provisions to the Standard Specifications for Public Works Construction, adopted by the San Diego Regional Standards Committee and the following Special Provisions:"

1. Trench width shall be per SDRSD No. S-4 unless otherwise shown.
2. Pipe and Bedding Conditions.
   (a) All pipe shall have 4" minimum of 3/4 inch crushed rock beneath the pipe.
   (b) V.C.P. and A.B.S. truss pipe bedding from bottom of pipe to (6) six inches minimum above the pipe shall be sand, gravel, crushed aggregate, native free-draining granular material having a sand equivalent of 30 or better.
   (c) P.V.C. and A.B.S. solid wall pipe bedding from bottom of pipe to (6) six inches minimum above the pipe shall be 3/4" crushed rock. A.B.S. solid wall pipe may be used only where pipe invert grades are 1% or greater.
3. After completion of pipe laying, all main line sewers, sewer service laterals and structures shall be tested in the presence of the Engineer. Air Pressure Test shall be used unless otherwise directed by the Engineer.
4. The construction of P.C.C. Sewer Manhole per SDRSD No. S-17.1 Pre-cast manhole bases are acceptable for use with 8-inch collector systems with inspector's approval.
5. The construction of 4-inch sewer lateral per SDRSD No's S-13 and S-14. Laterals shall not discharge directly into manhole.
6. The construction of concrete anchor walls per SDRSD No. S-10, Type A.
7. All mains and laterals shall be constructed with 42-inch minimum cover.
8. The final location and elevation of sewer and water laterals shall be shown on original plans, prior to acceptance of work.
9. All design changes of sewer mains shall be approved by the District Engineer in writing prior to acceptance for public use.
10. Fill areas must be compacted to 90% prior to pipe installation.
11. The contractor shall notify the Districts' Inspection Department 48 hours in advance of beginning work to arrange for inspection of project.
12. The contractor shall and hereby does guarantee all work for a period of one year after the date of acceptance of the work by the owner and shall repair or replace any or all such work, together with any other work which may be displaced in so doing, that may prove defective in workmanship and/or materials within the one year period from date of acceptance without expense whatsoever to the owner, ordinary wear and tear, unusual abuse or neglect excepted.
13. Contractor shall obtain a permit from the County Department of Transportation for any excavation within existing County Rights-of-Way.
14. "As Built" drawings must be submitted prior to final acceptance of the work.

CONT. OF GENERAL NOTES:

16. CONTRACTOR SHALL ADJUST EXISTING WATER LATERALS TO A STANDARD LOCATION BEHIND CURB, RECONNECT TO PRIVATE PLUMBING AND MAINTAIN SERVICE DURING ALL PHASES OF CONSTRUCTION.
17. CONTRACTOR SHALL ADJUST EXISTING FIRE HYDRANT TO A STANDARD LOCATION BEHIND CURB.

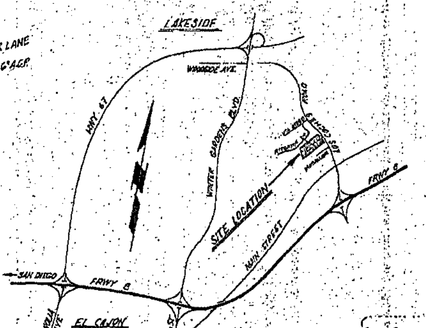


KEY MAP

SCALE: 1" = 200'

LEGEND

- STREET NAME SIGN
- STREET LIGHT
- SEWER
- STORM DRAIN
- WATER
- SUBDIVISION BDRY.
- BLOCK NO.
- DRAINAGE
- FIRE HYDRANTS



VICINITY MAP

NO SCALE

W.O. 9521	EST. NO. 5002
CONTRACTOR	T.C. CONSTRUCTION
PIPELINE TYPE & CLASS	8" TAC-6 CL 150
INSPECTOR	Lisle A. Lee
AS CONSTRUCTED	7/21/88 BY C&L
PLAT RECORDS CORRECTED	
REMARKS:	All copper services copper wire on pipe Native backfill

⚠ C.I.P.C.P. NOTES

Cast in place concrete pipe construction shall conform to San Diego Standard Specifications ACI Standard 346-70, Standard Specifications for non-reinforced concrete pipe and Section 63 CAL TRANS Standard Specifications modified as follows:

1. The County of San Diego shall provide continuous field inspection on this project, or as otherwise required.
2. A soils engineer certificate shall be submitted certifying that the trench walls are able to stand vertically for the required heights and that the water tables in the trenches are below the bottom of the trench or the trench can be dewatered to allow construction, and the water table maximum elevation is enough to preclude future damage to the C.I.P.P.
3. Pipes with slopes of less than 1% are not approved for this subdivision. If field conditions dictate a change to pipe grades less than 1%, special grade and tolerance provisions will be required.

LEGAL DESCRIPTION

PORTION OF LOT 17, BLOCK 17, "S" TRACT RANCHO EL CAJON, DB 170, PAGE 71. ASSESSOR'S PARCEL NO. 397-280-31

SITE ADDRESS

(775) FEET WEST ALONG LOS COCHES ROAD FROM THE INTERSECTION OF LOS COCHES ROAD AND LAMPLIGHT LANE

SUBDIVIDER

"BARRATT-SAN DIEGO"
5515 KEARNEY VILLA ROAD STE. 102
SAN DIEGO CALIFORNIA 92123

WORK TO BE DONE

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS; THE CURRENT SAN DIEGO COUNTY ENGINEER DEPARTMENT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR IMPROVEMENT OF SUBDIVISION STREETS AND STANDARD REFERENCE DRAWINGS AND THE STANDARD SPECIFICATIONS AND DRAWINGS OF THE HELIX WATER DISTRICT.

ITEM	STD. DWG.
PREPARATION OF SUBGRADE AND A.C. PAVING	
A.C. OVERLAY	
TYPE "G" CURB AND GUTTER	G-2
6" A.C. BERM	G-5
P.C.C. CONTIGUOUS SIDEWALK	G-7
SIDEWALK RAMP	G-8
P.C.C. CROSS GUTTER	G-12
TEMPORARY TURN-AROUND	DS-5
STREET NAME SIGNS	DS-13
STREET LIGHTS (7,000 LUMEN)	E-1, E-2
GUARD BARRICADE	M-9
CURB INLET	D-2
CURB OUTLET	D-25
HEADWALL	D-32
CMP DOWN DRAIN	
STORM DRAIN	
CLEAN OUT	D-10
DITCH DRAIN	D-75
ENERGY DISSIPATOR	D-40
ROCK SLOPE PROTECTION	
RETAINING WALL (TYPE III)	C-3.1
8" SEWER MAIN	S-4
4" SEWER LATERAL	S-13
SEWER MAN HOLE	S-17.1
CONC. ENCASEMENT	S-7.1
CONC BLK ANCHOR WALL	S-9
8" & 6" ASBESTOS CEMENT WATER MAINS, CLASS 150 (SIZE AS SHOWN ON PLAN)	
1" COPPER WATER LATERAL	
GATE VALVE	
REDUCER	
2" BLOW-OFF VALVE	
6" FIRE HYDRANT ASSEMBLY W/1-4" & 1-2½" OUTLETS	
CONC. PAD PER REG. STD. DWG.	W-11
STREET SURVEY MONUMENT	M-10
HEADWALL (WING-TYPE)	D-34
INLET APRON	PER DETAIL A

OWNER & PERMITTEE

I HEREBY AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING COUNTY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

⚠ OWNER: BARRATT - SAN DIEGO
ADDRESS: 5515 KEARNEY VILLA ROAD STE. 102 SAN DIEGO CALIFORNIA 92123
ASSESSOR'S PARCEL: 397 280 31

ENGINEER OF WORK

SNIPES-DYE ASSOCIATES
CIVIL ENGINEERS AND LAND SURVEYORS

ENGINEER OF REVISION

⚠ grabhorn engineering corp.
CIVIL ENGINEERING LAND PLANNING SURVEYING
8618 chesapeake drive, suite 101
san diego, california 92123
telephone (619) 560-7227

RICHARD G. GRABHORN 4/3/84 RCE 19375

GRADING PERMIT NO. L-8961

Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this Project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this Project, excepting for liability arising from the sole negligence of the Owner or the Engineer.

FLOOD CONTROL DISTRICT	SEWER AGENCY	WATER AGENCY
SAN DIEGO COUNTY FLOOD CONTROL DISTRICT C. J. HOUSON, DIRECTOR	LAKESIDE SANITATION DISTRICT ZL6360	HELIX WATER DISTRICT
APPROVED BY: [signature]	APPROVED BY: [signature]	APPROVED BY: [signature]
DATE: 8-28-79	DATE: 5-16-84 / 6-14-79	DATE: 5/24/84 SUBJECT TO REVISION WITHIN 90 DAYS

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
⚠	CHANGE OF OWNER, SUBDIVIDER, NEW ENGINEER OF WORK, & ADDED STORM DRAIN NOTES, SEWERS.		

PERMITS

REZONE PERMIT NO. N/A
SPECIAL USE PERMIT NO. N/A
GRADING PERMIT NO. L-8961

BENCH MARK

DESCRIPTION: CONC. MON. W/DISK STAMPED: EC 171
LOCATION: ON LOS COCHES RD 0.8 MI. FROM INTERSECT WITH WOODSIDE AVE IN LAKESIDE
RECORD FROM: COUNTY RECORDS
ELEVATION: 534.627 DATUM: USC&GS

PRIVATE CONTRACT

SHEET 1 | COUNTY OF SAN DIEGO DEPARTMENT OF TRANSPORTATION | 11 SHEETS

IMPROVEMENT PLANS FOR: SAN DIEGO COUNTY
TRACT NO. 3747

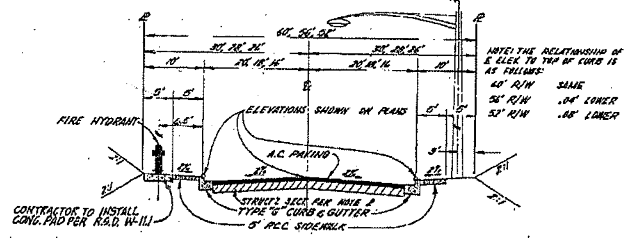
Recommended for approval: [signature] SUBDIVISION ENGINEER
Approved: Frank B. Jenkins Jr. For R.J. MASSMAN DIRECTOR OF TRANSPORTATION
Engineer of work: Roger L. Snipes R.C.E. 18134
Checked by:
Approval date: 12/14/1979
TM 3747-1

MICRO FILM: W.O. 9521
FILE NO. 235-003

ENGINEER'S NAME: ROGER L. SNIPES, SNIPES - DYE ASSOCIATES, 3562 GROVE ST., LEMON GROVE, CALIF. 92045
PHONE NO. (714) 697-9234

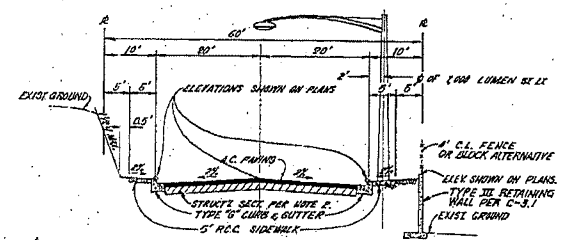
△ SEWER LATERAL DATA TABLE

① LOT NO.	② SURFACE ELEV AT ℞	③ LATERAL DEPTH AT ℞	④ I.E. AT SEWER MAIN	⑤ DROP TO MAIN	⑥ I.E. AT ℞	⑦ LENGTH	⑧ SLOPE OF LATERAL	STATIONS
1	527.0	5.2'	518.30	0.3	521.8	31		8 + 95
2	525.7		518.42		520.5	53		8 + 67
3	525.7		518.44		520.5	54		8 + 61
4	525.8		518.44		520.6	54		8 + 61
5	525.8		518.43		520.6	53		8 + 64
6	526.3		518.38		521.1	52		8 + 75
7	527.7	5.2'	518.21		522.5	26		9 + 18
8	547.0	4.87'	541.46		542.13	26.		0 + 80
9	554.5	5.2'	546.95		549.30	28		1 + 72
10	556.6		549.32		551.4	51		2 + 09
11	556.9		549.75		551.7	52		2 + 16.3
12	557.0		549.75		551.8	53		2 + 16.3
13	556.7		549.00		551.5	53		2 + 04
14	556.3		548.42		551.1	50		1 + 95
15	551.8		544.01		546.6	26		1 + 26
16	546.7		539.46		541.5	26		0 + 55
17	568.6		561.21		563.4	28		7 + 28
18	575.9		569.56		570.7	28		6 + 49.
19	586.8		580.09		581.6	28		5 + 58.65
20	597.4.		590.35		592.2	28		4 + 69.75
21	605.0		596.95		599.5	28		3 + 84.89
22	609.0		602.52		603.8	28		3 + 03
23	609.0		602.52		603.8	28		3 + 03
24	605.8		597.85		600.6	28		3 + 71.96
25	599.9		592.71		594.7	28		4 + 47.17
26	590.9		583.98		585.7	28		5 + 24.70
27	582.3		575.79		557.1	28		5 + 95.30
28	572.9		566.40		567.7	28		6 + 76.50
29	567.6		559.88		562.4	28		7 + 37.50
30	586.2		578.65		581.00	28		10 + 65
31	587.7		579.55		582.5	28		11 + 40
32	589.0		581.64		583.80	28		12 + 23.61
33	600.6		592.94		595.4	26		10 + 61
34	605.2		597.35		600.0	26		10 + 32
35	607.6		600.01		602.4	26		11 + 75
36	610.3		603.55		605.1	50		12 + 32
37	610.9		603.67		605.7	50		12 + 34
38	610.9		603.67		605.4	50		12 + 34
39	610.8		603.55		605.6	52		12 + 32
40	610.0		603.17		604.8	49		12 + 26
41	608.5		601.19		603.8	30		11 + 84
42	604.0		596.23		598.8	26		11 + 14
43	600.0		592.26		594.8	26		10 + 50
44	596.0		589.70		590.8	26		9 + 70
45	597.8		590.92		592.6	27		9 + 02
46	598.7		591.73	0.3	593.5	54		8 + 57
47	598.7	5.2'	591.86	0.3	593.5	49		8 + 50
48	598.7		591.86		593.5	49		8 + 50
49	597.8		590.96		592.6	27		9 + 00
50	596.8		590.15		591.6	26		9 + 45
51	587.5		579.39		582.30	28		11 + 27
52	586.4		578.63		581.20	20		10 + 65
53	597.1		590.85		591.90	30		14 + 96.21
54	602.2		595.98		597.00	30		15 + 76.21
55	607.2		601.02		602.0	30		16 + 55.00
56	611.8		605.70		606.60	30		17 + 28.00
57	615.6		609.35		610.40	30		18 + 85.21
58	615.3		609.10		610.10	30		17 + 81.31
59	610.1		603.90		604.9	30		17 + 00.00
60	605.3		599.10		600.10	30		16 + 25 00
61	600.8		594.55		595.60	30		15 + 54.00
62	596.9		590.14		591.20	30		14 + 85.00
63	587.4		579.29		582.20	26		9 + 48
64	592.0		584.14		586.80	51		8 + 78
65	592.2		584.42		587.00	49		8 + 74
66	592.5		584.42		587.30	49		8 + 74
67	592.1		584.00		586.90	51		8 + 76
68	591.2		584.14		586.00	49		8 + 78
69	587.7	5.2'	580.43		582.50	26		9 + 31
70	568.6	4.87'	562.62		563.40	30		10 + 55
71	565.0	5.2'	555.91		559.80	30		9 + 97
72	560.8	4.87'	554.26		555.10	30		9 + 24.31
73	556.2	4.87'	550.14		551.00	30		8 + 60
74	551.2	5.2'	544.84		546.00	30		7 + 80
75	546.2		539.78		541.00	30		7 + 05
76	542.2		535.46		537.00	30		6 + 37
77	538.4		532.15		533.20	30		5 + 60
78	535.2		528.56		530.00	30		4 + 80
79	531.7		521.99		526.50	26		10 + 67
80	540.0		533.79		534.80	26		11 + 50
81	578.3		569.42		573.1	26		14 + 79.44 (ADJUSTED LOTS)
81	577.7		569.21		572.50	26		14 + 75
83	584.3		575.79		579.10	66		15 + 36
84	583.8		575.92		578.60	45		15 + 48.55
85	581.3		574.04		576.10	28		15 + 28.58
86	576.9		568.15		571.70	26		14 + 65.92
87	569.0		561.21		563.80	26		13 + 92.10
88	558.9		552.74		553.70	26		13 + 07.95
89	548.5		542.50		543.30	26		12 + 20.95
90	539.2		532.94		534.00	26		11 + 42.95
91	531.5		521.07		526.30	26		10 + 57.95
				0.3				



TYPICAL STREET SECTION

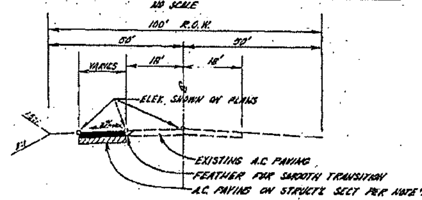
NO SCALE



△ TYPICAL SECTION - WELLINGTON HILL DR.

0+62.00 TO 1+48.20

NO SCALE



TYPICAL SECTION - LOS COCHES ROAD

17+31.52 TO 25+01.52

NO SCALE

ENGINEER OF WORK
SNIPES-DYE ASSOCIATES
CIVIL ENGINEERS AND LAND SURVEYORS

△ ENGINEER OF REVISION

grabhorn engineering corp.
CIVIL ENGINEERING LAND PLANNING SURVEYING
8319 chesapeake drive, suite 101
san diego, california 92123
telephone (619) 565-7227

RICHARD G. GRABHORN 4/3/84
R.C.E. 19375

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
△	NEW ENGINEER OF WORK REVISED STREET SECTION & SEWERS		5-21-84

PERMITS

REZONE PERMIT NO. N/A
SPECIAL USE PERMIT NO. N/A
TENTATIVE MAP NO. L-8961

BENCH MARK

DESCRIPTION: CONC. MON. W/DISK STAMPED: EC 177
LOCATION: ON LOS COCHES RD. 0.2 MI. FROM INTERSECT. WITH WOODSIDE AVE. IN LAKESIDE
RECORD FROM: COUNTY RECORDS
ELEVATION: 594.667 DATUM: USC&GS

PRIVATE CONTRACT

SHEET 2 | COUNTY OF SAN DIEGO DEPARTMENT OF TRANSPORTATION | 11 SHEETS

IMPROVEMENT PLANS FOR:
SAN DIEGO COUNTY
TRACT NO. 3747

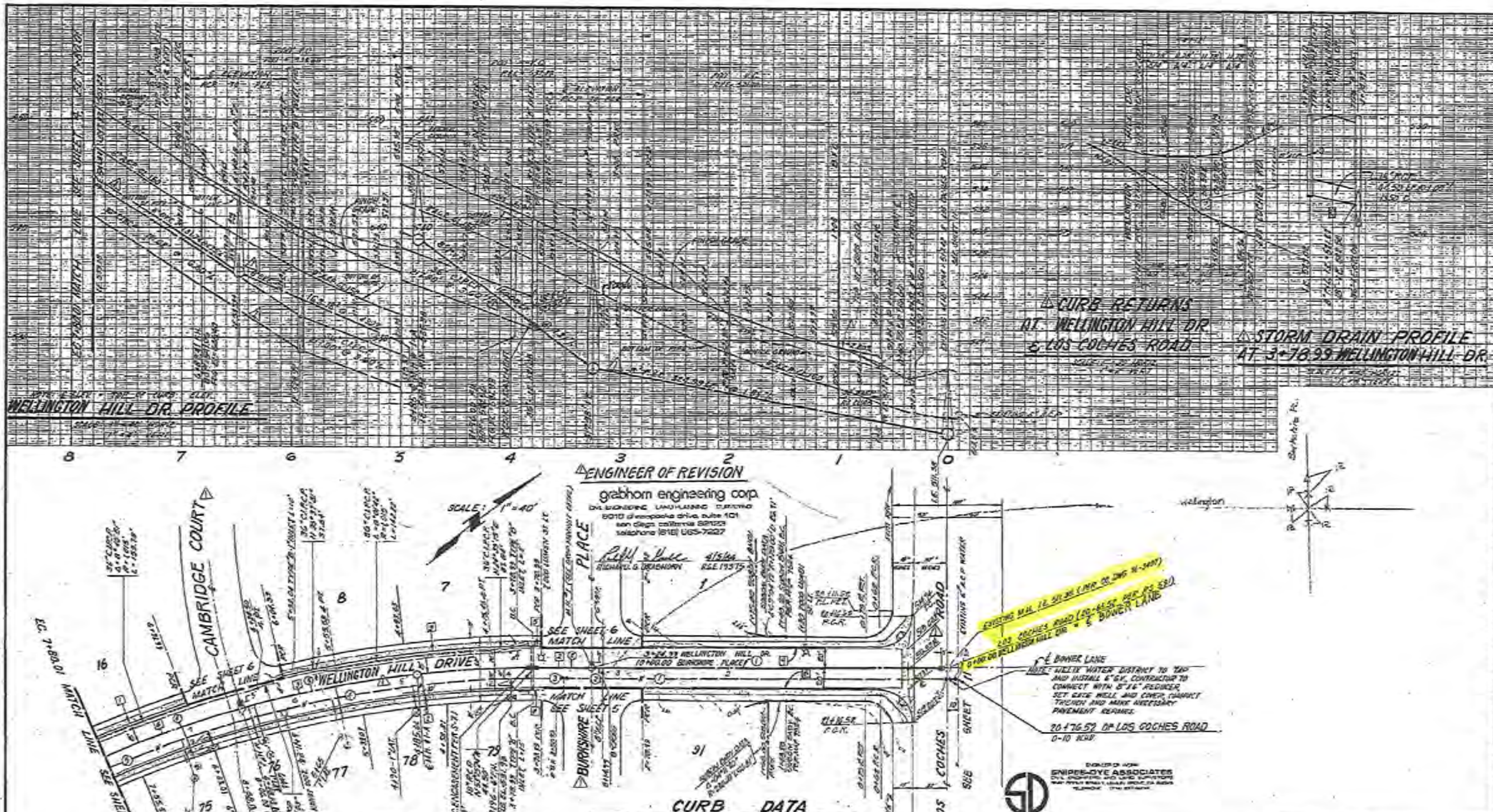
Recommended for approval: SUBDIVISION ENGINEER
Approved: For R.J. MASSMAN DIRECTOR OF TRANSPORTATION
Engineer of work: Roger L. Snipes R.C.E. 18134
Checked by:
Approval date: 12/14/1979
TM 3747-1

ENGINEER'S NAME: ROGER L. SNIPES, SNIPES-DYE ASSOCIATES, 3562 GROVE ST., LEMON GROVE, CALIF. 92045
PHONE NO. (714) 697-9234

Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this Project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this Project, excepting for liability arising from the sole negligence of the Owner or the Engineer.

MICRO FILM

FILE NO. 235-003



SEWER DATA

NO	DELTA/BEARING	R	L	REMARKS
1	N 36°44'36"E		324.99'	8" P.V.C.
2	N 36°44'36"E		54.08'	8" P.V.C.
3	Δ = 15°25'24"	1,000'	269.28'	8" P.V.C.
4	Δ = 7°35'17"	1,000'	131.85'	8" P.V.C.

WATER DATA

NO	DELTA/BEARING	R	L	REMARKS
1	N 36°44'36"E		324.95'	8" A.C. CL-150
2	N 36°43'36"E		20.00'	8" A.C. CL-150
3	N 36°44'36"E		44.00'	8" A.C. CL-150
4	Δ = 15°59'43"	990'	276.40'	8" A.C. CL-150
5	Δ = 6°58'48"	990'	120.61'	8" A.C. CL-150

CENTERLINE DATA

NO	DELTA/BEARING	R	L	T
1	N 36°44'36"E		324.99'	
2	N 36°44'36"E		54.00'	
3	Δ = 15°25'24"	1,000'	269.19'	135.41'
4	Δ = 7°55'52"	1,000'	131.85'	66.01'

CURB DATA

NO	DELTA/BEARING	R	L	REMARKS
1	Δ = 5°02'36"	1,020'	89.62'	
2	Δ = 22°58'36"	980'	393.00'	
3	Δ = 12°54'40"	1,020'	225.24'	
4	N 36°44'36"E		6.00'	
5	N 37°44'36"E		8.00'	
8	N 36°44'36"E		316.77'	
9	N 36°44'36"E		316.77'	
10	Δ = 38°05'08"	35'	42.12'	
11	Δ = 90°00'00"	30'	47.12'	

ENGINEER OF WORK
SNIPES-DYE ASSOCIATES
CIVIL ENGINEERS AND LAND SURVEYORS

Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this Project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this Project, excepting for liability arising from the sole negligence of the Owner or the Engineer.

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
△	NEW ENGINEER OF WORK, REVISED STORM DRAIN, SEWER, CURB RETURNS, & GUTTER & STREET NAMES		

BENCH MARK

DESCRIPTION: CONC. MON. W/DISK STAMPED: E.C. 131
LOCATION: ON LOS COCHES RD 2.3 MI. FROM INTERSECT. WITH WOODSIDE AVE. IN LAKESIDE
RECORD FROM: COUNTY RECORDS
ELEVATION: 594.627 DATUM: USC&GS

PRIVATE CONTRACT

SHEET 3 — COUNTY OF SAN DIEGO DEPARTMENT OF TRANSPORTATION — 11 SHEETS

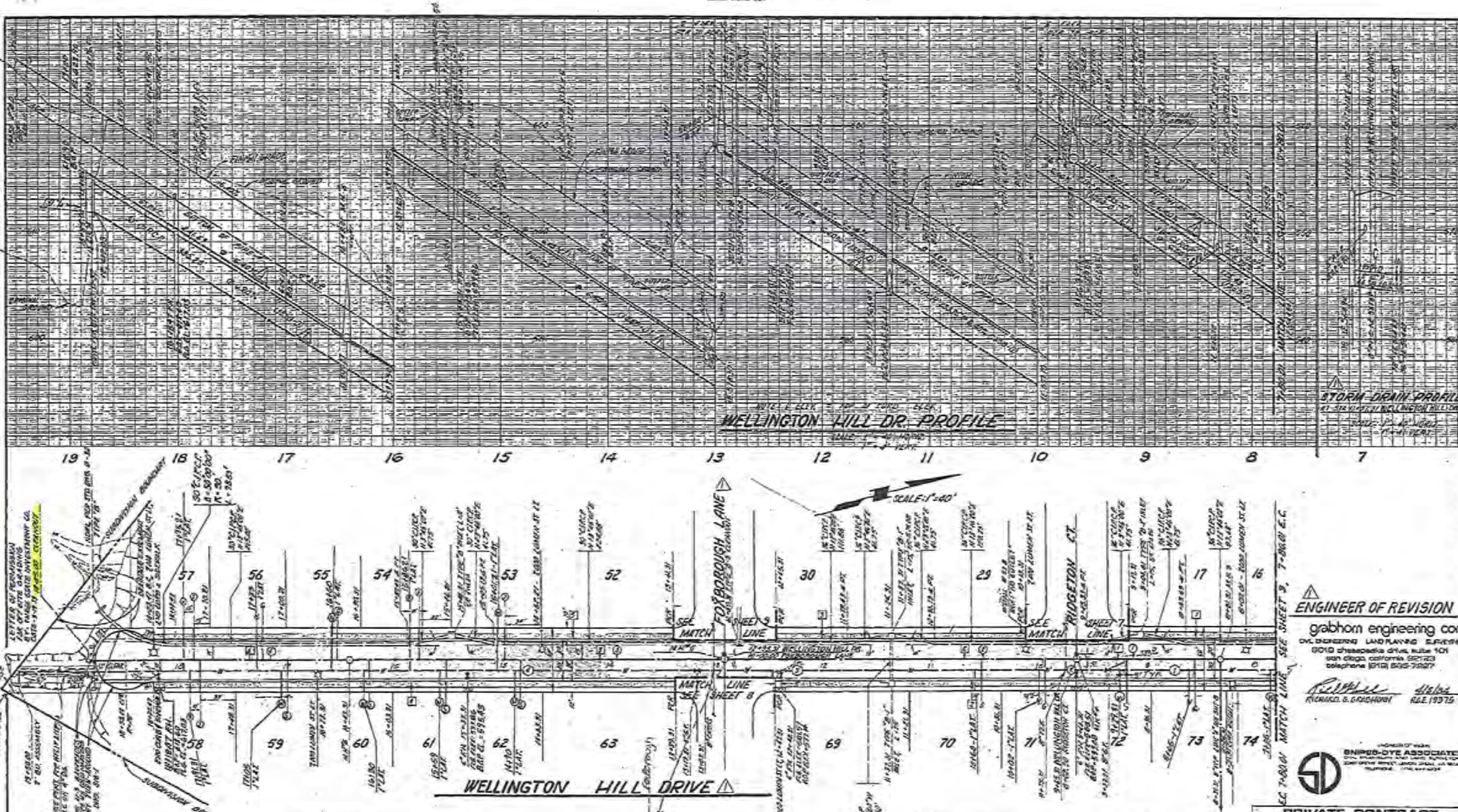
IMPROVEMENT PLANS FOR: SAN DIEGO COUNTY

TRACT NO. 3747

TM 3747-1

FILE NO. 235-009

ENGINEER'S NAME: ROGER L. SNIPES, SNIPES-DYE ASSOCIATES, 3562 GROVE ST., LEMON GROVE, CALIF. 92045
PHONE NO. (714) 697-9234



⚠ ENGINEER OF REVISION
grabhorn engineering corp
civil engineering land planning surveying
8010 chesapeake drive, suite 101
san diego, california 92123
telephone (619) 565-7927
RICHARD S. GRABHORN R.C.E. 19375

CURB DATA

NO.	DELTA / BEARING	R	L	T
1	N 15°46'00"E		157.38'	
2	N 15°46'00"E		467.33'	
3	N 15°46'00"E		232.00'	
4	N 15°46'00"E		404.16'	
5	N 15°46'00"E		467.16'	
6	Δ= 33°35'11"	20'	11.72'	6" A.C. BERM
7	Δ= 33°35'11"	20'	11.72'	6" A.C. BERM
8	Δ= 247°06'27"	28'	120.78'	6" A.C. BERM

CENTERLINE DATA

NO	DELTA / BEARING	R	L	T
1	N 15°46'00"E		185.50'	
2	N 15°46'00"E		329.00'	
3	N 15°46'00"E		359.65'	

SEWER DATA

NO	DELTA / BEARING	R	L	REMARKS
1	N 15°56'00"E		185.50'	8" P.V.C.
2	N 15°56'00"E		325.00'	8" P.V.C.
3	N 15°56'00"E		350.60'	8" P.V.C.
4	N 15°56'00"E		241.65'	8" P.V.C.

WATER DATA

NO	DELTA / BEARING	R	L	REMARKS
1	N 15°56'00"E		186.88'	6" A.C. CL-150
2	N 15°56'00"E		9.00'	8" A.C. CL-150
3	N 15°56'00"E		378.00'	8" A.C. CL-150
4	N 15°56'00"E		646.89'	8" A.C. CL-150

Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this Project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this Project, excepting for liability arising from the sole negligence of the Owner or the Engineer.

COUNTY APPROVED CHANGES			
No.	Description	Approved by	Date
⚠	SEE ENGINEER OF WORK, REVISED STORM DRAIN, SEWER & HANDS.		

BENCH MARK
DESCRIPTION: [illegible] STAMPED: [illegible]
LOCATION: [illegible]
RECORD FROM: COUNTY [illegible]
ELEVATION: 594.577 DATUM: [illegible]

SNIPES-DYE ASSOCIATES

PRIVATE CONTRACT

SHEET 4 | COUNTY OF SAN DIEGO DEPARTMENT OF TRANSPORTATION | 11 SHEETS

IMPROVEMENT PLANS FOR:
SAN DIEGO COUNTY
TRACT NO. 3747

DIRECTOR OF TRANSPORTATION

TM 3747-1

FILE NO. 295-005

MICRO FILM

ENGINEER'S NAME: ROGER L. SNIPES, SNIPES-DYE ASSOCIATES, 3562 GROVE ST, LEMON GROVE, CALIF. 92045
PHONE NO. (714) 697-9234