


STATION	AREAS Square Meters		VOLUMES Cubic Meters		CUMULATIVE VOLUMES Cubic Meters	
	CUT	FILL	CUT	FILL	CUT	FILL
	1+920	0.138	11.516			
1+930	0.092	12.948	1.148	122.317	1416.837	10988.942
1+940	0.095	12.624	0.931	127.859	1417.769	11116.800
1+950	0.233	11.001	1.639	118.126	1419.408	11234.927
1+960	0.315	10.219	2.742	106.099	1422.150	11341.026
1+970	0.575	10.629	4.452	104.237	1426.602	11445.263
1+980	0.498	10.446	5.364	105.376	1431.966	11550.638
1+990	0.354	10.407	4.257	104.268	1436.223	11654.906
1+999.400	0.464	9.314	3.845	92.688	1440.068	11747.594
2+000	0.505	9.532	0.291	5.654	1440.359	11753.248
2+010	0.150	8.240	3.277	88.860	1443.636	11842.108
2+011.953	0.027	8.522	0.173	16.368	1443.809	11858.476
2+031.125	4.028	7.693	38.869	155.437	1482.679	12013.913
2+050.279	0.035	11.898	38.907	187.623	1521.586	12201.536
2+060	0.223	12.460	1.256	118.391	1522.842	12319.926
2+070	0.327	10.560	2.753	115.098	1525.594	12435.025
2+080	0.346	11.979	3.365	112.697	1528.959	12547.721
2+090	0.882	11.625	6.137	118.019	1535.096	12665.740
2+092	0.800	12.128	1.682	23.753	1536.778	12689.492
2+100	0.375	12.188	4.702	97.263	1541.480	12786.755
2+110	0.193	11.474	2.841	118.308	1544.320	12905.063
2+120	0.230	9.709	2.114	105.916	1546.435	13010.979
2+130	0.079	11.891	1.548	108.002	1547.983	13118.981
2+140	0.172	10.500	1.255	111.953	1549.238	13230.933
2+150	0.346	9.312	2.589	99.058	1551.827	13329.991
2+160	0.559	7.619	4.527	84.653	1556.354	13414.645
2+170	2.281	4.769	14.199	61.940	1570.553	13476.585
2+180	2.089	4.517	21.848	46.434	1592.401	13523.019
2+190	2.735	3.799	24.122	41.584	1616.523	13564.602
2+200	3.713	3.011	32.239	34.051	1648.762	13598.654
2+210	4.666	1.813	41.895	24.118	1690.658	13622.771
2+220	3.852	2.311	42.593	20.616	1733.250	13643.387
2+230	3.125	2.387	34.885	23.487	1768.136	13666.874
2+240	2.434	3.601	27.795	29.940	1795.930	13696.814
2+250	2.026	3.551	22.301	35.761	1818.231	13732.575
2+260	1.954	2.996	19.900	32.736	1838.130	13765.311
2+270	2.092	3.164	20.230	30.802	1858.360	13796.113
2+280	2.353	2.965	22.223	30.645	1880.583	13826.758
2+290	2.498	1.894	24.254	24.294	1904.838	13851.052
2+300	2.460	2.902	24.792	23.978	1929.630	13875.030
2+310	3.166	2.226	28.128	25.637	1957.758	13900.666
2+320	3.301	1.715	32.335	19.704	1990.093	13920.370
2+330	3.486	1.387	33.936	15.508	2024.029	13935.878
2+340	4.448	0.886	39.668	11.365	2063.697	13947.243
2+347.400	5.090	0.336	35.288	4.523	2098.985	13951.766
2+350	5.804	0.275	14.161	0.795	2113.147	13952.561
2+359.384	6.928	0.124	59.738	1.871	2172.885	13954.432
			134.464	2.624	2307.349	13957.057

Areas of soft existing ground that need to be overexcavated are indicated by:



These areas need to be overexcavated to a minimum depth of 300mm, backfilled, and compacted before placing any fill above the area.

The volume of overexcavation was calculated by using the Average End Area Method. This Volume was then added to the Earthwork Quantities Bid Totals.

The Earthwork Quantities in these tables have been figured using the Average End Area Method. These Quantities have NOT been adjusted by any factors.

Earthwork Quantities listed in these tables reflect the existing ground (including pavement) at the time of the survey. Actual Quantities for the Bid Summary shall be reduced by the volume of removed asphalt, figured as such:

STREET	Location	ASSUMED PAVEMENT THICKNESS
29th Street North	Tyler to End	180mm Asphalt
Tyler Road	Beg. to End	150mm Asphalt

29th Street North from Maize Road to Tyler Road was overlaid with cold mix asphalt after the Boughman Company survey, and therefore, that volume will not be included in the reduction of the Earthwork Quantities.

STATION	AREAS Square Meters		VOLUMES Cubic Meters		CUMULATIVE VOLUMES Cubic Meters	
	CUT	FILL	CUT	FILL	CUT	FILL
	2+375.395	9.868	0.204			
2+391.389	9.507	0.075	154.942	2.235	2462.291	13959.291
2+400	9.760	0.054	82.952	0.557	2545.243	13959.848
2+410	9.955	0.090	98.576	0.719	2643.819	13960.567
2+420	10.219	0.004	100.873	0.471	2744.692	13961.038
2+430	10.962	0.000	105.903	0.022	2850.595	13961.060
2+433.200	10.919	0.000	35.010	0.000	2885.605	13961.060
2+440	12.114	0.000	78.313	0.000	2963.918	13961.060
2+450	12.883	0.006	124.985	0.030	3088.903	13961.090
2+460	13.660	0.000	132.715	0.030	3221.618	13961.120
2+470	14.361	0.000	140.104	0.000	3361.722	13961.120
2+480	15.449	0.000	149.049	0.000	3510.771	13961.120
2+490	16.335	0.000	158.918	0.000	3669.689	13961.120
2+500	16.755	0.000	165.447	0.000	3835.137	13961.120
2+510	17.321	0.000	170.381	0.000	4005.517	13961.120
2+520	18.508	0.001	179.144	0.004	4184.662	13961.124
2+527.932	15.155	1.016	133.507	4.034	4318.169	13965.158
2+530	14.791	2.024	30.964	3.143	4349.133	13968.301
2+540	14.580	1.715	146.853	18.692	4495.986	13986.993
2+550	14.653	0.813	146.161	12.642	4642.147	13999.635
2+554.132	14.779	0.754	60.805	3.238	4702.953	14002.873
2+560	14.944	0.738	87.207	4.376	4790.160	14007.248
2+570	12.710	0.371	138.273	5.543	4928.433	14012.792
2+580	12.472	0.698	125.910	5.345	5054.343	14018.137
2+581.137	13.385	0.754	14.699	0.826	5069.043	14018.963
2+631.830	15.937	1.013	743.205	44.809	5812.247	14063.771
2+640	15.341	0.951	127.769	8.026	5940.016	14071.798
2+650	17.505	1.150	164.226	10.507	6104.243	14082.305
2+659.280	19.808	1.314	173.132	11.435	6277.375	14093.740
2+660	19.728	1.351	14.233	0.960	6291.608	14094.700
2+670	20.982	1.787	203.550	15.692	6495.158	14110.392
2+680	23.225	2.188	221.033	19.879	6716.191	14130.270
2+685.480	22.168	2.960	124.376	14.107	6840.567	14144.378
2+690	20.898	2.955	97.329	13.370	6937.896	14157.747
2+697	20.016	2.803	143.196	20.154	7081.092	14177.901
2+700	19.557	2.083	59.359	7.328	7140.451	14185.229
2+710	21.447	0.375	205.022	12.289	7345.473	14197.518
2+720	19.351	0.000	203.991	1.876	7549.464	14199.394
2+730	17.503	0.000	184.272	0.000	7733.735	14199.394
2+740	15.551	0.000	165.274	0.000	7899.009	14199.394
2+750	13.231	0.000	143.914	0.000	8042.922	14199.394
2+760	10.008	0.000	116.194	0.000	8159.117	14199.394
2+770	6.219	0.039	81.133	0.197	8240.249	14199.591
2+780	4.039	0.000	51.291	0.197	8291.540	14199.788
			0.000	0.000	8291.540	14199.788



PROJECT NUMBER 472-83863		SHEET NAME XSEC31		ENGINEERING DIRECTORY F:\29th North\Earth\dwg	
DESIGN TPV	DRAWN TPV	APPROVED JFB	DATE Oct. 2004	SCALE 1:100	BAUGHMAN NO 02-02-E232

CAPITAL IMPROVEMENT PROJECT  
29th STREET NORTH CROSS SECTIONS  
EARTH QUANTITIES

**BAUGHMAN COMPANY, P.A.**  
ENGINEERING, SURVEYING, & PLANNING  
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