

BENCH MARKS  
FOR THE CITY OF  
WICHITA, KANSAS

Current as of February 2005



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Line 1: 135th St. West	Line 1: 135th St. West
135th Street West and Pawnee COW Bench Mark. NE corner intersection, southwest corner of concrete base for HLP.	City 172.25 ft 52.502 m MSL 1359.65 ft 414.421 m
135th Street West and Pawnee COW Bench Mark. Northeast corner of RCBC on hubguard. Bridge built in 1993. 500.00 ft 152.400 m +/- west of 135th St. NE corner RCBC.	City 166.05 ft 50.612 m MSL 1353.45 ft 412.532 m
0.4 miles (0.648 km) South of Kellogg on 135th Str. West COW Bench Mark. West side of concrete base for HLP, west of KGE substation. 135.00 ft 41.148 m +/-south of railroad tracks East side of 135th St. West	City 180.37 ft 54.977 m MSL 1367.77 ft 416.896 m
135th Street West and Kellogg COW Bench Mark. NE corner intersection, between Kellogg and Kellogg Dr. 91.00 ft 27.737 m North of center line of Kellogg. 112.00 ft 34.138 m North of section corner iron. 35.60 ft 10.851 m East of center line of 135th St. West 1.50 ft 0.457 m North of E-W fence line 2.00 ft 0.610 m East of power line N-S DLK 6-93	City 177.10 ft 53.980 m MSL 1364.50 ft 415.900 m
135th Street West and McCormick COW Bench Mark. East side of 135th St. West 34.00 ft 10.363 m East of center line of 135th Street West. 17.00 ft 5.182 m North of center line of bridge E-W 2.00 ft 0.610 m North of 1/4 corner. 1.00 ft 0.305 m West of fence south	City 156.66 ft 47.750 m MSL 1344.06 ft 409.669 m
135th Street West and Maple COW Bench Mark. NE corner intersection on headwall. 34.00 ft 10.363 m SW to section corner iron.	City 150.29 ft 45.808 m MSL 1337.69 ft 407.728 m
135th Street West and Rolling Hills Drive COW Bench Mark. SE corner intersection. 0.25 miles (0.405 km) south of Central. 47.00 ft 14.326 m East of center line of 135th St. 31.00 ft 9.449 m South of center line of Rolling Hills Drive. 14.00 ft 4.267 m South of south curb of Rolline Hills Drive.	City 161.90 ft 49.347 m MSL 1349.30 ft 411.267 m
135th Street West and Central COW Bench Mark. NE corner intersection 32.60 ft 9.936 m North of center line 24.50 ft 7.468 m East of center line 39.50 ft 12.040 m NE of section corner iron	City 159.50 ft 48.616 m MSL 1346.90 ft 410.535 m
135th Street West and 9th Street North COW Bench Mark. 0.5 miles (0.81 km) south of 13th St. North 39.00 ft 11.887 m East of center line of 135th St. West 18.00 ft 5.486 m South of Hedge row east DLK 1983	City 159.71 ft 48.680 m MSL 1347.11 ft 410.599 m
135th Street West and 13th Street North COW Bench Mark. SE corner intersection 56.00 ft 17.069 m East of center line 55.00 ft 16.764 m South of center line DLK 1983	City 167.83 ft 51.155 m MSL 1355.23 ft 413.074 m
135th Street West and 13th Street North COW Bench Mark. SW corner intersection East side of concrete base for HLP 30.00 ft 9.144 m +/- south of center line 35.00 ft 10.668 m +/- west of center line	City 168.25 ft 51.283 m MSL 1355.65 ft 413.202 m
135th Street West and 17th Street North COW Bench Mark. 28.00 ft 8.534 m East of center line of 135th St. @ 1/2 section line 0.5 miles (0.81 km) north of 13th Street. DLK 1983	City 170.33 ft 51.917 m MSL 1357.73 ft 413.836 m
135th Street West and 21St North COW Bench Mark. SW corner intersection 49.00 ft 14.935 m South of center line of 21st St. 43.00 ft 13.106 m West of center line of 135th St. 65.50 ft 19.964 m SW of section corner iron 11.60 ft 3.536 m North of chain link fence. 35.60 ft 10.851 m NW of power pole 27.60 ft 8.412 m West of back of curb DLK 5-93	City 169.19 ft 51.569 m MSL 1356.59 ft 413.489 m
135th Street West and 1/4 mile (0.405 km) South of 29th St. North COW Bench Mark. NW corner bridge, on hubguard.	City 164.47 ft 50.130 m MSL 1351.87 ft 412.050 m
135th Street West and 29th St. North COW Bench Mark. SE corner intersection 48.08 ft 14.655 m SE of section corner iron 3.90 ft 1.189 m South of PP 66.88 ft 20.385 m SSW of 2nd PP east bound of 135th and 29th.	City 162.98 ft 49.676 m MSL 1350.38 ft 411.596 m

<b>Line 1-A: Rainbow Lakes</b>	<b>Line 1-A: Rainbow Lakes</b>
Rainbow Lakes and Central	
COW Bench Mark. SE corner hubguard of RCBC on Central	City 157.00 ft 47.854 m
700.00 ft 213.360 m +/- east of Rainbow Lakes Drive	
DLK 5-93	MSL 1344.40 ft 409.773 m
<b>Line 2: Wheatland</b>	<b>Line 2: Wheatland</b>
0.6 miles (0.97 km) east of 135th Street on Pawnee	
COW Bench Mark. Northwest corner of bridge, on hubguard	City 147.01 ft 44.809 m
23rd St. bridge, built in 1986	
	MSL 1334.41 ft 406.728 m
Wheatland and Kellogg	
COW Bench Mark. North side of Kellogg, northwest corner of hubguard.	City 142.52 ft 43.440 m
DLK 6-93	
	MSL 1329.92 ft 405.360 m
Forestview (127th St.) and Maple	
COW Bench Mark. SE corner hubguard on Forestview.	City 135.66 ft 41.349 m
86.00 ft 26.213 m North of centerline of Maple.	
	MSL 1323.06 ft 403.269 m
Wheatland (127th St.) and Central	
COW Bench Mark.	City 154.90 ft 47.214 m
35.50 ft 10.820 m South of center line of Central	
59.50 ft 18.136 m West of 1/4 corner	MSL 1342.30 ft 409.133 m
68.40 ft 20.848 m SW of 1/4 corner iron	
24.00 ft 7.315 m West of center line of Wheatland	
DLK 1987	
Firefly (127th St.) and 13th St.	
COW Bench Mark. In line with centerline of Firefly St., south.	City 145.52 ft 44.354 m
1.50 ft 0.457 m South of 2 ft. (0.610 m) rail fence	
3.00 ft 0.914 m North of overhead power line	MSL 1332.92 ft 406.274 m
38.50 ft 11.735 m North of center line of 13th St.	
DLK 6-93	
127th St. West and 21 St. North	
COW Bench Mark. Top of hubguard. NW corner bridge over Cowskin Creek.	City 165.07 ft 50.313 m
DLKL 1987	
	MSL 1352.47 ft 412.233 m
<b>Line 2-A: Breezy Point</b>	<b>Line 2-A: Breezy Point</b>
Breezy Point Circle and Maple	
COW Bench Mark. NW corner hubguard, west side of Breezy Point Circle,	City 135.31 ft 41.242 m
0.3 miles (0.486 km) west of 119th St.	
100.00 ft 30.480 m +/- north of center line of Maple	
	MSL 1322.71 ft 403.162 m
<b>Line 3: 119th St.</b>	<b>Line 3: 119th St.</b>
119th St. West and Pawnee	
COW Bench Mark. NE corner of intersection.	City 148.68 ft 45.318 m
40.00 ft 12.192 m East of center line.	
30.00 ft 9.144 m North of center line.	MSL 1336.08 ft 407.237 m
59.50 ft 18.136 m North of PP in SE corner of intersection.	
156.80 ft 47.793 m NNE of center of east concrete headwall G1020	
	on culvert under 119th St.
DLK 1983	
119th St. West and 0.5 miles (0.81 km) south of Kellogg	
COW Bench Mark. East R/W.	City 144.69 ft 44.102 m
42.20 ft 12.863 m East of center line.	
6.40 ft 1.951 m South of PP.	MSL 1332.09 ft 406.021 m
119th St. West and Kellogg	
Temporary Bench Mark. NW corner of intersection. Railroad spike in	City 147.25 ft 44.882 m
south face of power pole.	
	MSL 1334.65 ft 406.801 m
119th St. West and Kellogg	
COW Bench Mark. SE corner of intersection. Between east bound Kellogg	City 145.96 ft 44.489 m
and access drive.	
12.80 ft 3.901 m South of concrete slab (east bound traffic).	MSL 1333.36 ft 406.408 m
13.00 ft 3.962 m North of cable guard rail.	
85.50 ft 26.0604 m East of center line of 119th St. West.	
DLK 8-94	
119th St. West and McCormick	
COW Bench Mark. In line and on 1/2 section line.	City 130.36 ft 39.734 m
39.00 ft 11.887 m East of center line.	
3.00 ft 0.914 m South of fence corner.	MSL 1317.76 ft 401.653 m
DLK 1983	
119th St. West and Maple	
COW Bench Mark. SW corner of intersection.	City 141.97 ft 43.272 m
42.50 ft 12.954 m South of center line.	
32.70 ft 9.967 m West of center line.	MSL 1329.37 ft 405.192 m
54.23 ft 16.529 m SW of section corner iron.	
72.00 ft 21.946 m South of center of PP on NW corner intersection.	
119th St. West and Rolling Hills	
COW Bench Mark. NE corner of intersection.	City 157.93 ft 48.137 m
35.00 ft 10.668 m East of center line.	
32.00 ft 9.754 m North of center line.	MSL 1345.33 ft 410.057 m
1.50 ft 0.457 m West of face of walk.	
10.20 ft 3.109 m West of SW corner of 6' wood fence, House # 11962	
71.80 ft 21.885 m NNE of center of PP on SE corner of intersection.	

119th St. West and Central							
COW Bench Mark.	SE corner of intersection.		City	156.98	ft	47.848	m
40.00	ft	12.192	m	East of center line.			
46.00	ft	14.021	m	South of center line.	MSL	1344.38	ft
58.82	ft	17.928	m	SE of section corner iron.		409.767	m
21.70	ft	6.614	m	West of face of walk running N/S.			
13.60	ft	4.145	m	North of walk running E/W.			
119th St. West and Lost Creek ( Cowskin )							
COW Bench Mark.	South end of hubguard, southeast corner of RCBC.		City	151.82	ft	46.275	m
175.00	ft	53.340	m	+/- north of Lost Creek Circle.	MSL	1339.22	ft
						408.194	m
119th St. West and 13th St. North							
COW Bench Mark.	SW corner of intersection		City	162.19	ft	49.436	m
59.00	ft	17.983	m	South of center line.			
58.00	ft	17.678	m	West of center line.	MSL	1349.59	ft
4.00	ft	1.219	m	North of north face of walk.		411.355	m
85.60	ft	26.091	m	NE to section corner iron.			
2.50	ft	0.762	m	West to east face of walk.			
119th St. West and 17th St. North							
COW Bench Mark.			City	165.06	ft	50.310	m
29.60	ft	9.022	m	West of center line of 119th St.			
1.00	ft	0.305	m	South of center line of 17th St. extended.	MSL	1352.46	ft
15.00	ft	4.572	m	West of back of curb.		412.230	m
21.40	ft	6.523	m	East of wrought iron fence.			
8.20	ft	2.499	m	East of back of walk.			
119th St. West and 21st St. North							
COW Bench Mark.	SE corner of intersection.		City	172.16	ft	52.474	m
67.00	ft	20.422	m	South of center line.			
46.00	ft	14.021	m	East of center line.	MSL	1359.56	ft
79.00	ft	24.079	m	South of section line.		414.394	m
93.10	ft	28.377	m	SE of section corner iron.			
9.10	ft	2.774	m	South of center of PP.			
119th St. West and 0.5 miles (0.81 km ) north of 21st St. North							
COW Bench Mark.	West R/W		City	172.32	ft	52.523	m
19.50	ft	5.944	m	NE of guy wire.			
44.10	ft	13.442	m	SW of 1/4 section corner iron.	MSL	1359.72	ft
29.70	ft	9.053	m	West of center line.		414.443	m
32.20	ft	9.815	m	South of 1/2 section line.			
53.00	ft	16.154	m	WNW of face of PP.			
44.30	ft	13.503	m	NE of face of PP.			
119th St. West and 29th St. North							
COW Bench Mark.	NW corner of intersection		City	173.53	ft	52.892	m
43.82	ft	13.356	m	NW of section corner iron.			
5.10	ft	1.554	m	West of face of PP.	MSL	1360.93	ft
48.70	ft	14.844	m	South of steel fence post.		414.811	m
<b>Line 4: Shefford</b>				<b>Line 4: Shefford</b>			
Shefford and Pawnee							
COW Bench Mark.	0.5 miles (0.81 km) east of 119th St. west, south side of Pawnee.		City	145.53	ft	44.358	m
34.00	ft	10.363	m	South of center line of Pawnee.	MSL	1332.93	ft
6.00	ft	1.829	m	West of hedge row south.		406.277	m
Shefford and Jewell							
COW Bench Mark.	NW corner of intersection.		City	140.86	ft	42.934	m
25.00	ft	7.620	m	West of center line.			
38.00	ft	11.582	m	North of center line.	MSL	1328.26	ft
7.60	ft	2.316	m	NW radial to curb.		404.854	m
111th St. West and Kellogg							
COW Bench Mark.			City	0.00	ft	0.000	m
			MSL	1187.40	ft	361.920	m
Shefford and Maple							
COW Bench Mark.	NE corner of intersection.		City	147.22	ft	44.873	m
38.00	ft	11.582	m	North of center line.			
32.50	ft	9.906	m	East of center line.	MSL	1334.62	ft
62.50	ft	19.050	m	South of south edge of concrete drive.		406.792	m
DLK 6-93							
Shefford and Rolling Hills							
COW Bench Mark.	SE corner of intersection.		City	153.17	ft	46.686	m
	Approximate center of section 19.						
25.00	ft	7.620	m	East of center line.	MSL	1340.57	ft
22.00	ft	6.706	m	South of center line.		408.606	m
2.30	ft	0.701	m	SE radial to curb.			
DLK 6-93							
Shefford and Central							
COW Bench Mark.	NW corner of intersection.		City	153.32	ft	46.732	m
35.50	ft	10.820	m	North of center line.			
29.50	ft	8.992	m	West of center line.	MSL	1340.72	ft
6.50	ft	1.981	m	NW radial to curb.		408.651	m
DLK 6-93							
Shefford and Murdock							
COW Bench Mark.	NW corner of intersection.		City	144.15	ft	43.937	m
23.50	ft	7.163	m	North of center line.			
35.00	ft	10.668	m	West of center line.	MSL	1331.55	ft
				South of catch basin.		405.856	m
DLK 6-93							

Shefford and 13th St. North							
COW Bench Mark.	Due north of 1/4 section corner iron.	City	158.73 ft	48.381 m			
	8.00 ft 2.438 m +/- north of HLP running E/W						
	40.60 ft 12.375 m North of center line of 13th St. North.	MSL	1346.13 ft	410.300 m			
	154.20 ft 47.000 m East of center line 13th St. Court.						
	16.70 ft 5.090 m From back of curb.						
	3.00 ft 0.914 m From north face of sidewalk.						
	40.78 ft 12.430 m North of 1/4 section corner iron.						
DLK							
Parkdale and 17th St. North							
COW Bench Mark.	East parking of Parkdale.	City	158.30 ft	48.250 m			
	150.00 ft 45.720 m +/- north of 17th St.						
	6.50 ft 1.981 m South of 1/2 section line.	MSL	1345.70 ft	410.169 m			
	5.20 ft 1.585 m East of east curb.						
	27.00 ft 8.230 m East of center line						
DLK 7-93							
Shefford and 21st St. North							
COW Bench Mark.	SE corner of intersection.	City	165.16 ft	50.341 m			
	53.60 ft 16.337 m South of center line.						
	35.00 ft 10.668 m East of center line.	MSL	1352.56 ft	412.260 m			
	17.50 ft 5.334 m East of back of curb extended.						
DLK 6-93							
0.5 miles ( 0.81 km ) west of Maize, on 29th St. North							
COW Bench Mark.	South right-of-way, on pole line south.	City	178.29 ft	54.343 m			
	9.10 ft 2.774 m North of guy wire.						
	27.80 ft 8.473 m North of north face of PP.	MSL	1365.69 ft	416.262 m			
	22.35 ft 6.812 m Due south of 1/4 section corner iron.						
	66.50 ft 20.269 m West of west face of PP.						
<b>Line 4-A:</b>				<b>Line 4-A:</b>			
Lark Lane and May							
COW Bench Mark.	North end, west headwall of RCBC under Lark Lane, 0.5 miles ( 0.81 km ) north of Pawnee.	City	139.20 ft	42.428 m			
		MSL	1326.60 ft	404.348 m			
Cowskin and Central							
COW Bench Mark.	Southwest corner of bridge, top of hubguard.	City	144.85 ft	44.150 m			
	1000.00 ft 304.800 m +/- west of Maize Rd.						
DLK 6-93				MSL	1332.25 ft	406.070 m	
<b>Line 5: Maize Rd.</b>				<b>Line 5: Maize Rd.</b>			
Maize Rd. and MacArthur							
COW Bench Mark.	Northeast corner of hubguard for RCBC.	City	140.20 ft	42.733 m			
	200.00 ft 60.960 m +/- west of Maize Rd. on MacArthur.						
		MSL	1327.60 ft	404.652 m			
Maize Rd. and 31st St. South							
COW Bench Mark.	Southeast corner of hubguard on RCBC.	City	143.95 ft	43.876 m			
	200.00 ft 60.960 m +/- west of Maize Rd. on 31st St. South.						
DLK 6-93				MSL	1331.35 ft	405.795 m	
Maize Rd. and 1000 ft. ( 304.8 m ) +/- north of 31st St. South							
COW Bench Mark.	East hubguard of RCBC.	City	139.77 ft	42.602 m			
		MSL	1327.17 ft	404.521 m			
DLK 6-93							
Maize Rd. and Pawnee							
COW Bench Mark.	SW corner of intersection.	City	135.12 ft	41.185 m			
	44.00 ft 13.411 m South of center line.						
	49.80 ft 15.179 m West of center line.	MSL	1322.52 ft	403.104 m			
	12.00 ft 3.658 m East of fence.						
	65.00 ft 19.812 m SW of section corner iron.						
DLK 6-93							
Maize Rd. and May							
COW Bench Mark.	SE corner of intersection.	City	137.69 ft	41.968 m			
	31.50 ft 9.601 m South of center line.						
	38.00 ft 11.582 m East of center line.	MSL	1325.09 ft	403.887 m			
	16.20 ft 4.938 m SE radial to curb.						
	127.00 ft 38.710 m +/- north of 1/4 section corner iron.						
DLK 6-93							
Maize Rd. and Kellogg							
COW Bench Mark.	NE corner of intersection, southwest corner of concrete base for traffic signal light pole.	City	136.57 ft	41.627 m			
		MSL	1323.97 ft	403.546 m			
DLK 8-94							
Maize Rd. and Kellogg							
Temporary bench mark.	Railroad spike in west face of HLP, east side of Maize Rd., first pole south of railroad tracks.	City	136.11 ft	41.486 m			
		MSL	1323.51 ft	403.406 m			
	200.00 ft 60.960 m +/- south of Kellogg.						
DLK 1987 checked 6-93							
Maize Rd. and McCormick ( Hidden Valley )							
COW Bench Mark.	Northeast corner of RCBC over Cowskin, south of Hidden Valley.	City	131.53 ft	40.090 m			
		MSL	1318.93 ft	402.010 m			
Maize Rd. and Maple							
COW Bench Mark.	NW corner of intersection.	City	135.05 ft	41.163 m			
	88.50 ft 26.975 m West of center line.						
	58.00 ft 17.678 m North of center line.	MSL	1322.45 ft	403.083 m			
	106.00 ft 32.309 m NW of section corner iron.						
	11.00 ft 3.353 m West of traffic light pole.						
	1.56 ft 0.475 m South of south face of walk.						
DLK 6-93							



Maize Rd. and Second St. COW Bench Mark. Top of hubguard, northwest corner of bridge built in 1993. DLK 5-94	City	141.26 ft	43.056 m
	MSL	1328.66 ft	404.976 m
Maize Rd. and Central COW Bench Mark. In NE turn island. 54.70 ft 16.673 m North of center line. 35.60 ft 10.851 m East of center line.	City	145.99 ft	44.498 m
	MSL	1333.39 ft	406.417 m
Maize Rd. and Harvest Lane COW Bench Mark. RCBC on Harvest Lane. 100.00 ft 30.480 m +/- east of Maize Rd. SW corner of RCBC, west end of hubguard. DLK 5-93	City	154.02 ft	46.945 m
	MSL	1341.42 ft	408.865 m
Maize Rd. and 13th St. North COW Bench Mark. NW corner of intersection. 109.50 ft 33.376 m North of center line. 71.00 ft 21.641 m West of center line. 2.00 ft 0.610 m East of east face of walk. DLK 5-93	City	160.02 ft	48.774 m
	MSL	1347.42 ft	410.694 m
Maize Rd. and 17th St. North COW Bench Mark. 0.5 miles ( 0.81 km ) south of 21st St. 11.00 ft 3.353 m South of 1/4 section corner iron. 43.00 ft 13.106 m East of 1/4 section corner iron. DLK 1983	City	161.05 ft	49.088 m
	MSL	1348.45 ft	411.008 m
Maize Rd. and 21st St. North COW Bench Mark. SE corner of intersection. 64.00 ft 19.507 m East of center line. 99.00 ft 30.175 m South of center line. DLK 1983	City	164.30 ft	50.079 m
	MSL	1351.70 ft	411.998 m
Maize Rd. and Sterling ( 2400 blk, North ) COW Bench Mark. Top of curb, west end of median, on centerline of Sterling. 61.00 ft 18.593 m East of center line of Maize Rd.	City	166.17 ft	50.649 m
	MSL	1353.57 ft	412.568 m
Maize Rd. and 29th St. North COW Bench Mark. NW corner of intersection. 63.42 ft 19.330 m WNW of section corner iron. 62.70 ft 19.111 m NNW of manhole. 20.30 ft 6.187 m West of face of PP. 1.70 ft 0.518 m South of fence running E/W. 58.80 ft 17.922 m West of center line of Maize Rd.	City	161.92 ft	49.353 m
	MSL	1349.32 ft	411.273 m
<b>Line 5-A: Maple St. Bridge</b> 0.25 miles ( 0.405 km ) east of Maize Rd. on U.S. 54 Highway COW Bench Mark. Top of hubguard, southwest corner of south bridge, built in 1990. DLK 7-93	City	135.29 ft	41.236 m
	MSL	1322.69 ft	403.156 m
Maple St. Bridge, 1st bridge west of Seville COW Bench Mark. DLK 6-94 SE corner of bridge, top of corral rail.	City	137.86 ft	42.020 m
	MSL	1325.26 ft	403.939 m
Maple St. Bridge, 2nd bridge west of Seville COW Bench Mark. DLK 6-94 NW corner of bridge, top of corral rail.	City	138.00 ft	42.062 m
	MSL	1325.40 ft	403.982 m
<b>Line 6: Seville / Westlink</b> Seville and 31st St. South COW Bench Mark. 44.00 ft 13.411 m East of 1/4 section corner iron. 26.00 ft 7.925 m South of 1/4 section corner iron. JFG 1973	City	130.19 ft	39.682 m
	MSL	1317.59 ft	401.601 m
Seville and Yosemite ( 27th St. South ) COW Bench Mark. 65.00 ft 19.812 m North of center of section. 13.20 ft 4.023 m West of center of section. 11.50 ft 3.505 m North of north curb. DLK 1977	City	128.38 ft	39.130 m
	MSL	1315.78 ft	401.050 m
Seville and Pawnee COW Bench Mark. 38.00 ft 11.582 m South of 1/4 section corner iron. 24.00 ft 7.315 m East of 1/4 section corner iron. 56.40 ft 17.19072 m NW of manhole. 116.00 ft 35.357 m +/- NE of NE corner of concrete manhole (east side of creek) DLK 1977 Rev 10-93	City	113.69 ft	34.653 m
	MSL	1301.09 ft	396.572 m
Seville and Kellogg COW Bench Mark. Center of median, between east and west bound U.S.54 Highway. 128.70 ft 39.228 m West of center line of Seville. 15.00 ft 4.572 m South of south edge of concrete pavement for west bound traffic. DLK 6-93	City	132.44 ft	40.368 m
	MSL	1319.84 ft	402.287 m

Seville and Belview, 0.5 miles ( 0.81 km ) south of Maple						
COW Bench Mark. SE corner of intersection.				City	146.89 ft	44.772 m
41.00 ft	12.497 m	East of center of section.				
7.00 ft	2.134 m	South of center of section.		MSL	1334.29 ft	406.692 m
23.00 ft	7.010 m	SE to NW corner of 2-car garage.				
53.00 ft	16.154 m	North to center of PP.				
61.50 ft	18.745 m	NW to fence corner north and west.				
DLK 6-93						
Westlink and Maple						
COW Bench Mark. Center line of Westlink extended.				City	153.97 ft	46.930 m
29.90 ft	9.114 m	South of center line of Maple.				
5.40 ft	1.646 m	South of back of curb.		MSL	1341.37 ft	408.850 m
0.90 ft	0.274 m	North of north face of walk.				
36.20 ft	11.034 m	NE of guy pole.				
Westfield and Rolling Hills						
COW Bench Mark. Northeast corner of bridge, north end of headwall.				City	137.74 ft	41.983 m
150.00 ft	45.720 m	+/- south of Rolling Hills Drive.				
DLK 7-93				MSL	1325.14 ft	403.903 m
Caddy and Central						
COW Bench Mark. NW corner of intersection.				City	144.11 ft	43.925 m
42.00 ft	12.802 m	North of center line of Central.				
31.30 ft	9.540 m	West of center of Caddy south.		MSL	1331.51 ft	405.844 m
17.00 ft	5.182 m	North of back of curb.				
4.00 ft	1.219 m	South of south face of walk.				
33.50 ft	10.211 m	West of back of curb.				
Westlink and Harvest Lane						
COW Bench Mark. Southwest corner of bridge. East end of wing wall.				City	148.56 ft	45.281 m
DLK 5-93						
				MSL	1335.96 ft	407.201 m
Westlink and 13th St. North						
COW Bench Mark. Top of west end, north handrail to RCBC.				City	155.69 ft	47.454 m
JFG 1972						
				MSL	1343.09 ft	409.374 m
Westlink and 17th St. North						
COW Bench Mark. South end of wing wall, northeast corner of RCBC on 17th street.				City	156.82 ft	47.799 m
				MSL	1344.22 ft	409.718 m
Keith and 21st St. North, 0.5 miles (0.81 km) west of Tyler						
COW Bench Mark.				City	161.38 ft	49.189 m
		NE corner of RCBC on hubguard.				
125.00 ft	38.100 m	+/- west of Keith St.		MSL	1348.78 ft	411.108 m
DLK 6-93						
0.5 miles ( 0.81 km ) east of Maize Rd. on 29th St. North						
COW Bench Mark. North R/W.				City	160.86 ft	49.030 m
31.88 ft	9.717 m	North of 1/4 section corner iron.				
220.00 ft	67.056 m	+/- East of PP.		MSL	1348.26 ft	410.950 m
3.00 ft	0.914 m	East of end of fence west.				
<b>Line 6-A: Westlink</b>				<b>Line 6-A: Westlink</b>		
Between Seville and Tyler						
COW Bench Mark. North side of RCBC, east end of hubguard.				City	129.63 ft	39.511 m
DLK 1987						
				MSL	1317.03 ft	401.431 m
Westlink and Central						
COW Bench Mark. Top of north handrail, at east end of RCBC.				City	147.58 ft	44.982 m
				MSL	1334.98 ft	406.902 m
Westlink and Delano						
COW Bench Mark. Northeast corner of bridge, north face of sidewalk.				City	144.46 ft	44.031 m
				MSL	1331.86 ft	405.951 m
Westlink and 9th St. North						
COW Bench Mark. Northeast corner of bridge, north face of sidewalk.				City	146.49 ft	44.650 m
				MSL	1333.89 ft	406.570 m
<b>Line 7: Tyler</b>				<b>Line 7: Tyler</b>		
Tyler and MacArthur						
COW Bench Mark.				City	128.15 ft	39.060 m
500.00 ft	152.400 m	+/- west of Tyler on MacArthur.				
		NE corner of hubguard on RCBC.		MSL	1315.55 ft	400.980 m
Tyler and 31st St. South						
COW Bench Mark. NW corner of intersection.				City	127.27 ft	38.792 m
39.50 ft	12.040 m	North of center line.				
73.00 ft	22.250 m	West of center line.		MSL	1314.67 ft	400.711 m
16.00 ft	4.877 m	NW of street light pole.				
DLK 6-93						
Tyler and Yosemite						
COW Bench Mark.				City	117.33 ft	35.762 m
		NW corner of 7' x 7' RCBC, south end of wingwall on Yosemite.				
80.00 ft	24.384 m	+/- west of center line of Tyler		MSL	1304.73 ft	397.682 m
DLK 6-93						

Tyler and Yosemite							
COW Bench Mark.				City	120.60	ft	36.759
200.00	ft	60.960	m				
DLK 6-93				MSL	1308.00	ft	398.678
SW corner of bridge on sidewalk. +/- north of Yosemite.							
Tyler and Yosemite							
COW Bench Mark.				City	121.47	ft	37.024
250.00	ft	76.200	m				
DLK 6-93				MSL	1308.87	ft	398.944
NW corner of bridge on sidewalk. +/- north of Yosemite.							
Tyler and Pawnee							
COW Bench Mark.				City	140.06	ft	42.690
32.50	ft	9.906	m				
43.00	ft	13.106	m				
5.50	ft	1.676	m				
55.00	ft	16.764	m				
MSL				1327.46	ft	404.610	
SW corner of intersection. South of center line. West of center line. East of fence. SW of section corner iron.							
Tyler and May, 0.5 miles ( 0.81 km ) south of Harry							
COW Bench Mark.				City	143.17	ft	43.638
44.00	ft	13.411	m				
24.50	ft	7.468	m				
47.20	ft	14.387	m				
138.00	ft	42.062	m				
MSL				1330.57	ft	405.558	
West of center line of Tyler. South of center of PP. WNW of 1/4 section corner iron. South of center line of south drive to Pawnee Prairie Park Club house							
Tyler and Harry							
COW Bench Mark.				City	141.57	ft	43.151
44.00	ft	13.411	m				
39.00	ft	11.887	m				
23.50	ft	7.163	m				
44.50	ft	13.564	m				
MSL				1328.97	ft	405.070	
SW corner of intersection. West of center line. South of center line. SE of center of PP. NW of center of PP.							
Tyler and McCormick							
COW Bench Mark.				City	140.76	ft	42.904
82.20	ft	25.055	m				
32.00	ft	9.754	m				
41.50	ft	12.649	m				
4.50	ft	1.372	m				
89.00	ft	27.127	m				
MSL				1328.16	ft	404.823	
NE corner of intersection. 1 block north of Kellogg. East of center line. North of center line. ESE of PP. East of inlet. SW to section corner iron.							
Tyler and Maple							
COW Bench Mark.				City	144.12	ft	43.928
50.70	ft	15.453	m				
39.30	ft	11.979	m				
64.30	ft	19.599	m				
MSL				1331.52	ft	405.847	
NE corner of intersection. BM in turn island. North of center line. East of center line. SW to section corner iron.							
Tyler and Second							
Bench Mark.				City	137.25	ft	41.834
200.00	ft	60.960	m				
JFG 1971				MSL	1324.65	ft	403.753
Square cut in center of concrete headwall of RCP. East side of Tyler. +/- north of Second St.							
Tyler and Central							
COW Bench Mark.				City	143.90	ft	43.861
56.20	ft	17.130	m				
38.00	ft	11.582	m				
5.00	ft	1.524	m				
5.00	ft	1.524	m				
MSL				1331.30	ft	405.780	
NW corner of intersection. North of center line. West of center line. West of curb. North of curb.							
Tyler and 10th St. North							
COW Bench Mark.				City	150.35	ft	45.827
40.00	ft	12.192	m				
88.00	ft	26.822	m				
MSL				1337.75	ft	407.746	
NW corner of headwall of RCB. South of center line. East of center line.							
Tyler and 13th St. North							
COW Bench Mark.				City	168.47	ft	51.350
68.70	ft	20.940	m				
77.00	ft	23.470	m				
2.00	ft	0.610	m				
2.00	ft	0.610	m				
6.50	ft	1.981	m				
MSL				1355.87	ft	413.269	
SW corner of intersection. West of center line. South of center line. East of east face of walk. South of south face of walk. ESE to property corner.							
Tyler and 17th St. North, 0.5 miles ( 0.81 km ) south of 21st St. North							
COW Bench Mark.				City	172.60	ft	52.608
7.00	ft	2.134	m				
32.50	ft	9.906	m				
20.50	ft	6.248	m				
31.50	ft	9.601	m				
39.40	ft	12.009	m				
MSL				1360.00	ft	414.528	
West of back of curb. South of wrought iron fence. West of section line. West of center line of Tyler. SW of 1/4 section corner iron.							
Tyler and 21st St. North							
COW Bench Mark.				City	170.95	ft	52.106
73.60	ft	22.433	m				
53.30	ft	16.246	m				
12.50	ft	3.810	m				
91.70	ft	27.950	m				
MSL				1358.35	ft	414.025	
NE corner of intersection. North of center line. East of center line. NNE of center of traffic light pole. NE of section corner iron.							
Tyler and 25th St. North, 0.5 miles ( 0.81 km ) north of 21st St. North							
COW Bench Mark.				City	165.61	ft	50.478
6.30	ft	1.920	m				
1.00	ft	0.305	m				
MSL				1353.01	ft	412.397	
East parking of Tyler. West of iron on east R/W of Tyler. North of fence corner east and south.							

Tyler and 29th St. North									
COW Bench Mark.	SE corner of intersection.			City	178.04	ft	54.267	m	
32.30	ft	9.845	m						
30.00	ft	9.144	m						South of center line.
55.50	ft	16.916	m	MSL	1365.44	ft	416.186	m	East of center line.
9.20	ft	2.804	m						East of PP.
43.20	ft	13.167	m						SE of PP.
									SE of section corner iron.
<b>Line 8: Woodchuck / Country Acres</b>				<b>Line 8: Woodchuck / Country Acres</b>					
0.4 miles ( 0.648 km ) west of Ridge Rd. on MacArthur				City	108.21	ft	32.982	m	
COW Bench Mark.	Southwest corner of RCBC on hubguard. Bench mark stamped 1295.62.			MSL	1295.61	ft	394.902	m	
Woodchuck and K-42 Highway				City	124.07	ft	37.817	m	
COW Bench Mark.				MSL	1311.47	ft	399.736	m	
82.00	ft	24.994	m						NNW of center of K-42 asphalt pavement.
2.00	ft	0.610	m						West of 1/4 section corner iron.
JFG 1972									
Woodchuck and Kellogg Dr.				City	139.91	ft	42.645	m	
COW Bench Mark.	SW corner of intersection.			MSL	1327.31	ft	404.564	m	
27.00	ft	8.230	m						West of center line.
150.00	ft	45.720	m						South of center line.
5.50	ft	1.676	m						East of chain link fence corner.
41.00	ft	12.4968	m						SSW of PP.
DLK 7-93									
Woodchuck and Maple				City	142.06	ft	43.300	m	
COW Bench Mark.	SE corner of intersection.			MSL	1329.46	ft	405.219	m	
									East face of concrete base of school crossing light.
30.00	ft	9.144	m						South of center line.
47.00	ft	14.326	m						East of center line.
DLK 6-93									
Woodchuck and Second St. North				City	152.62	ft	46.519	m	
COW Bench Mark.				MSL	1340.02	ft	408.438	m	
									On center line of Second St. extended.
27.30	ft	8.321	m						East of center line of Woodchuck.
8.20	ft	2.499	m						East of back of curb.
3.20	ft	0.975	m						West of face of walk.
DLK 6-93									
Woodchuck and Central				City	154.05	ft	46.954	m	
COW Bench Mark.	NW corner of intersection.			MSL	1341.45	ft	408.873	m	
52.00	ft	15.850	m						North of center line.
24.00	ft	7.315	m						West of center line.
2.00	ft	0.610	m						North of back of walk.
9.00	ft	2.743	m						West of back of curb.
Est 1971									
Country Acres, 0.5 miles ( 0.81 km ) south of 13th St. North				City	154.37	ft	47.052	m	
COW Bench Mark.				MSL	1341.77	ft	408.971	m	
30.00	ft	9.144	m						West of center line.
11.50	ft	3.505	m						West of back of curb.
7.00	ft	2.134	m						East of face of walk.
17.00	ft	5.182	m						North of south property line to NW High School.
Country Acres and 13th St. North				City	156.19	ft	47.606	m	
COW Bench Mark.	North parking of 13th St. North. ( 0.6 ft. 0.183 m deep)			MSL	1343.59	ft	409.525	m	
42.30	ft	12.893	m						East of section corner iron.
44.00	ft	13.411	m						North of section corner iron.
11.00	ft	3.353	m						SE of PP.
60.50	ft	18.440	m						NE of section corner iron.
43.50	ft	13.259	m						ENE of PP.
JFG 1971									
Woodchuck and 17th St. North				City	158.29	ft	48.247	m	
COW Bench Mark.	SE corner of intersection.			MSL	1345.69	ft	410.166	m	
30.00	ft	9.144	m						East of center line.
22.00	ft	6.706	m						South of center line.
36.90	ft	11.247	m						SE of 1/4 section corner iron.
4.50	ft	1.372	m						SE radial to curb.
DLK 7-93									
Woodchuck and 21st St. North				City	162.45	ft	49.515	m	
COW Bench Mark.	SW corner of intersection.			MSL	1349.85	ft	411.434	m	
									South end, west hubguard of 3.5' x 6' RCBC.
DLK 6-93									
Woodchuck and 29th St. North, 0.5 miles ( 0.81 km ) west of Ridge Rd.				City	152.16	ft	46.378	m	
COW Bench Mark.	North parking.			MSL	1339.56	ft	408.298	m	
23.00	ft	7.010	m						North of center line.
2.00	ft	0.610	m						West of 1/2 section line.
23.50	ft	7.163	m						NNW of 1/4 section corner iron.
4.60	ft	1.402	m						SSW of fence corner.
DLK 6-93									
<b>Line 8-A: Wild Rose / Tee Time</b>				<b>Line 8-A: Wild Rose / Tee Time</b>					
Wild Rose and 29th St. North				City	138.92	ft	42.343	m	
COW Bench Mark.	NE corner hubguard on RCBC on Wild Rose south of 29th St.			MSL	1326.32	ft	404.262	m	
718.00	ft	218.846	m						West of Ridge Rd.
37.42	ft	11.406	m						South of center line of 29th St.
DLK 6-93									
Wild Rose and 29th St. North				City	138.24	ft	42.136	m	
COW Bench Mark.	Top of wing wall. NW corner of RCBC.			MSL	1325.64	ft	404.055	m	
81.10	ft	24.719	m						North of centerline of 29th St. at approximate east line of Wild Rose.
712.00	ft	217.018	m						West of centerline of Ridge Rd.
DLK 3-94									

Tee Time and 29th St. North							
COW Bench Mark.	NW corner of bridge, NW corner of wing wall.	City	142.20 ft	43.343 m			
	1789.7 ft 545.501 m West of centerline of Ridge Rd.						
	28.70 ft 8.748 m South of centerline of 29th St.	MSL	1329.60 ft	405.262 m			
DLK 3-94							
<b>Line 9: Ridge Road</b>				<b>Line 9: Ridge Road</b>			
Ridge Rd. and MacArthur (Cowskin )							
COW Bench Mark.	NE corner of bridge on MacArthur.	City	108.88 ft	33.187 m			
	202.00 ft 61.570 m East of centerline of Ridge Rd						
	Est 1976	MSL	1296.28 ft	395.106 m			
Ridge Rd. and MacArthur ( Cowskin )							
Brass Cap.	SW corner of bridge on hubguard.	City	111.81 ft	34.080 m			
	214.00 ft 65.227 m North of centerline of MacArthur.						
	DLK 1987 Bridge built in 1985.	MSL	1299.21 ft	395.999 m			
Ridge Rd. and 35th St. South							
COW Bench Mark.	NE corner of intersection.	City	121.65 ft	37.079 m			
	38.00 ft 11.582 m East of center line.						
	27.50 ft 8.382 m North of center line.	MSL	1309.05 ft	398.998 m			
	54.50 ft 16.612 m North of 2 rail fence.						
	10.50 ft 3.2004 m South of pine tree.						
DLK 7-93							
Ridge Rd. and K-42 Highway							
COW Bench Mark.		City	124.42 ft	37.922 m			
	60.50 ft 18.440 m NNW of center of K-42 asphalt concrete pavement.						
	48.00 ft 14.630 m ENE of center line of Ridge Rd extended.	MSL	1311.82 ft	399.842 m			
	2.50 ft 0.762 m NE of power pole.						
	0.50 ft 0.152 m Below ground.						
JFG 1972							
Ridge Rd. and Harry							
COW Bench Mark.	NE corner of intersection.	City	131.86 ft	40.189 m			
	52.00 ft 15.850 m East of center line.						
	43.00 ft 13.106 m North of center line.	MSL	1319.26 ft	402.109 m			
	22.60 ft 6.888 m NE of street light pole.						
	68.00 ft 20.726 m NE of section corner iron						
JFG 1972							
Ridge Rd. and Maple							
COW Bench Mark.	SW corner of intersection.	City	142.07 ft	43.303 m			
	69.00 ft 21.031 m South of center line.						
	97.00 ft 29.566 m West of center line.	MSL	1329.47 ft	405.222 m			
	10.50 ft 3.200 m North of face of sidewalk.						
DLK 6-93							
Ridge Rd. and 2nd St. North							
COW Bench Mark.	NW corner of intersection.	City	144.96 ft	44.185 m			
	39.50 ft 12.040 m North of center line.						
	48.00 ft 14.630 m West of center line.	MSL	1332.36 ft	406.104 m			
	6.00 ft 1.829 m East of wood fence.						
	14.20 ft 4.328 m North of center of PP						
JFG 1971							
Ridge Rd. and Central							
COW Bench Mark.	NW corner of intersection.	City	131.66 ft	40.130 m			
	2.00 ft 0.610 m South of face of walk.						
	12.00 ft 3.658 m West of back of walk.	MSL	1319.06 ft	402.049 m			
	32.00 ft 9.754 m North of back of curb.						
	43.00 ft 13.106 m West to back of curb.						
DLK 6-93							
Ridge Rd. and School							
COW Bench Mark.	North end of east hubguard of outlet structure, east side of Ridge Rd.	City	130.12 ft	39.661 m			
	175.00 ft 53.340 m +/- south of School St.	MSL	1317.52 ft	401.580 m			
Ridge Rd. and 13th St. North							
COW Bench Mark.	NE corner of intersection.	City	147.85 ft	45.065 m			
	50.00 ft 15.240 m East of center line.						
	95.00 ft 28.956 m North of center line.	MSL	1335.25 ft	406.984 m			
	14.00 ft 4.267 m East of back of curb.						
	58.00 ft 17.678 m North of back of curb.						
DLK 6-93							
Ridge Rd. and 17th St. North ( Suncrest )							
COW Bench Mark.		City	142.81 ft	43.528 m			
	42.00 ft 12.802 m North of 1/4 section corner.						
	38.50 ft 11.735 m East of 1/4 section corner	MSL	1330.21 ft	405.447 m			
JFG 1973							
Ridge Rd. and 21st St. North							
COW Bench Mark.	NE corner of intersection.	City	142.34 ft	43.385 m			
	61.00 ft 18.593 m East of center line.						
	66.60 ft 20.300 m North of center line.	MSL	1329.74 ft	405.305 m			
	31.00 ft 9.449 m East of back of curb.						
	26.00 ft 7.925 m North of back of curb.						
DLK 6-93							
Ridge Rd. and 21st St. North							
COW Bench Mark.	SE corner of intersection.	City	143.86 ft	43.849 m			
	NW corner of concrete base of traffic signal base.						
	DLK 10-93	MSL	1331.26 ft	405.768 m			

Ridge Rd. and Reflection Rd.							
COW Bench Mark.	NW corner of intersection.		City	139.60	ft	42.550	m
67.00	ft	20.422	m	West of center line of Ridge Rd.			
140.00	ft	42.672	m	East of center line of Wild Rose.	MSL	1327.00	ft
2.00	ft	0.610	m	North of back of curb.			
16.50	ft	5.029	m	West of street light pole.			
DLK 6-93							
Ridge Rd. and 29th St. North							
COW Bench Mark.	SW corner of intersection.		City	139.15	ft	42.413	m
13.90	ft	4.237	m	SE of NE corner of concrete wall.			
6.80	ft	2.073	m	East of MH.	MSL	1326.55	ft
54.10	ft	16.490	m	SW of face of street light pole.			
80.80	ft	24.628	m	South of center line.			
63.70	ft	19.416	m	West of center line.			
104.30	ft	31.791	m	SW of section corner ( railroad spike).			
Ridge Rd. and 33rd St. North							
COW Bench Mark.	SW hubguard of RCBC		City	144.22	ft	43.958	m
DLK 7-93							
			MSL	1331.62	ft	405.878	m
<b>Line 9-A:</b>				<b>Line 9-A:</b>			
1800.00 ft. ( 548.647 km ) east of Ridge Rd. on MacArthur							
COW Bench Mark.			City	112.05	ft	34.153	m
750.00	ft	228.600	m	+/- west of Dugan Rd.			
			MSL	1299.45	ft	396.072	m
				Top of hubguard on SW corner of RCBC.			
				Stamped 1299.48			
East of Ridge Rd. on 21st St. North							
COW Bench Mark.	South side of 21st St.		City	138.03	ft	42.072	m
1500.00	ft	457.200	m	+/- east of Ridge Rd.			
DLK 7-93							
			MSL	1325.43	ft	403.991	m
				East end of hubguard.			
0.4 miles ( 0.648 km ) east of Ridge Rd. on 29th St. North							
COW Bench Mark.	NE corner of concrete bridge on top of hubguard.		City	142.51	ft	43.437	m
			MSL	1329.91	ft	405.357	m
<b>Line 10: Dugan Road</b>				<b>Line 10: Dugan Road</b>			
Dugan Rd. and MacArthur ( 39th St. South )							
COW Bench Mark.	NE corner of intersection.		City	117.18	ft	35.716	m
31.20	ft	9.510	m	East of center line.			
63.60	ft	19.385	m	North of center line.	MSL	1304.58	ft
22.70	ft	6.919	m	North of center of PP.			
0.50	ft	0.152	m	East of east face of walk.			
11.80	ft	3.597	m	East of back of curb.			
90.00	ft	27.432	m	NE of 1/4 section corner.			
DLK 7-93							
Dugan Rd. and 35th St. South							
COW Bench Mark.	West parking of Dugan Rd.		City	119.56	ft	36.442	m
10.00	ft	3.048	m	East of hedge row N-S.			
23.00	ft	7.010	m	West of center line.	MSL	1306.96	ft
81.50	ft	24.841	m	South of center line.			
4.00	ft	1.219	m	West of back of curb.			
10.00	ft	3.048	m	East of 1/2 section line.			
DLK 7-93							
Dugan Rd. and 31st St. South							
COW Bench Mark.			City	116.54	ft	35.521	m
36.50	ft	11.125	m	North of center of asphalt pavement.			
6.00	ft	1.829	m	East of 1/4 section corner.	MSL	1303.94	ft
31.65	ft	9.647	m	NNE of 1/4 section corner.			
12.60	ft	3.840	m	East of center of concrete flume.			
8.60	ft	2.621	m	SW of asphalt parking.			
5.00	ft	1.524	m	North of line of PP's running E/W.			
JFG 1972							
Dugan and Taft							
COW Bench Mark.	SW corner of intersection.		City	119.00	ft	36.271	m
30.60	ft	9.327	m	South of center line.			
52.30	ft	15.941	m	West of center line.	MSL	1306.40	ft
2.40	ft	0.732	m	East of east line of SWS inlet.			
1.00	ft	0.305	m	North of face of walk.			
6.30	ft	1.920	m	South of back of curb.			
DLK 7-94							
Maple Lane and Maple							
COW Bench Mark.	North parking.		City	122.63	ft	37.378	m
125.00	ft	38.100	m	+/- west of center line of Maple Lane.			
42.20	ft	12.863	m	Due north of 1/4 section corner.	MSL	1310.03	ft
5.50	ft	1.676	m	South of face of walk.			
35.00	ft	10.668	m	NE of PP.			
17.40	ft	5.304	m	North of back of curb.			
37.00	ft	11.278	m	SE of PP.			
DLK 7-93							
Winterset and O'Neil							
COW Bench Mark.	East parking.		City	132.36	ft	40.343	m
			MSL	1319.76	ft	402.263	m
				Between houses 6410 O'Neil and 258 Winterset.			
4.00	ft	1.219	m	South of inlet.			
4.00	ft	1.219	m	East of back of curb.			
20.20	ft	6.157	m	South of street light pole.			
DLK 7-93							
Big Ditch and Central							
COW Bench Mark.	SW corner of bridge, top of hubguard of east bound traffic.		City	136.57	ft	41.627	m
DLK 7-93							
			MSL	1323.97	ft	403.546	m
				West of Hoover.			

Big Ditch and Central					
COW Bench Mark.	SE corner of bridge, top of hubguard of east bound traffic.	City	135.83 ft	41.401 m	
DLK 7-93	West of Hoover.	MSL	1323.23 ft	403.321 m	
Dugan Rd. and 13th St. North					
COW Bench Mark.	0.5 miles ( 0.81 km ) east of Ridge Rd.	City	127.38 ft	38.824 m	
109.00 ft	33.223 m North of 1/4 section corner.				
10.00 ft	3.048 m West of 1/4 section corner.	MSL	1314.78 ft	400.744 m	
2.70 ft	0.823 m South of chain link fence.				
10.60 ft	3.231 m West of center of PP.				
83.00 ft	25.298 m East of center line of North Shore Blvd.				
CLG 1973					
Dugan Rd. and 21st St. North					
COW Bench Mark.	SE corner of intersection. 0.5 miles ( 0.81 km ) east of Ridge Rd.	City	132.26 ft	40.313 m	
98.00 ft	29.870 m South of center line.	MSL	1319.66 ft	402.232 m	
19.00 ft	5.791 m East of center line.				
99.30 ft	30.267 m SSE of 1/4 section corner.				
7.00 ft	2.134 m North of chain link fence.				
DLK 7-93					
Dugan Rd. and 21st St. North					
COW Bench Mark.	0.5 miles ( 0.81 km ) east of Ridge Rd.	City	132.33 ft	40.334 m	
70.00 ft	21.336 m North of 1/4 section corner.				
5.00 ft	1.524 m East of 1/4 section corner.	MSL	1319.73 ft	402.254 m	
70.55 ft	21.504 m NNE of 1/4 section corner.				
12.00 ft	3.658 m SSW of "X" on SW corner of fence post around gas valves				
43.10 ft	13.137 m WSW from 3 nails in SE face of PP.				
JFG 1973					
0.5 miles ( 0.81 km ) east of Ridge Rd. on 29th St. North					
COW Bench Mark.	North R/W.	City	141.07 ft	42.998 m	
43.44 ft	13.241 m North of 1/4 section corner iron.				
59.60 ft	18.166 m WNW of face of PP north side of 29th St. North.	MSL	1328.47 ft	404.918 m	
5.20 ft	1.585 m South of fence corner post.				
<b>Line 10-A:</b>			<b>Line 10-A:</b>		
0.25 miles ( 0.405 km ) west of Hoover on 47th St. South					
COW Bench Mark.	NE corner of bridge over Cowskin Creek.	City	107.59 ft	32.793 m	
Checked 1976		MSL	1294.99 ft	394.713 m	
<b>Line 11: Hoover Road</b>			<b>Line 11: Hoover Road</b>		
Hoover and 0.5 miles ( 0.81 km ) south of 47th St. South					
COW Bench Mark.	NE corner of bridge.	City	105.12 ft	32.041 m	
		MSL	1292.52 ft	393.960 m	
Hoover and 47th St. South					
COW Bench Mark.	NE corner of intersection.	City	103.06 ft	31.413 m	
21.60 ft	6.584 m North of center line.				
71.50 ft	21.793 m East of center line.	MSL	1290.46 ft	393.332 m	
73.60 ft	22.433 m ENE of Section corner iron.				
5.90 ft	1.798 m West of PP.				
DLK 7-93					
Hoover and MacArthur ( 39th St. South )					
COW Bench Mark.	NE corner of intersection.	City	121.22 ft	36.948 m	
41.60 ft	12.680 m North of center line.				
69.00 ft	21.031 m East of center line.	MSL	1308.62 ft	398.867 m	
20.00 ft	6.096 m East of guy pole.				
79.80 ft	24.323 m NE of Section corner iron.				
DLK 7-93					
Hoover and 35th St. South					
COW Bench Mark.	NE corner of deck on RCBC on 35th St. South.	City	109.84 ft	33.479 m	
100.00 ft	30.480 m +/- west of Hoover.	MSL	1297.24 ft	395.399 m	
DLLK 7-93					
Hoover and 31st St. South					
COW Bench Mark.		City	108.43 ft	33.049 m	
41.00 ft	12.497 m East of center line.				
32.00 ft	9.754 m North of center line.	MSL	1295.83 ft	394.969 m	
JFG 1972					
Hoover and K-42 Highway					
COW Bench Mark.	NE corner of intersection. In turn Island.	City	121.29 ft	36.969 m	
44.00 ft	13.411 m East of back of curb.				
17.60 ft	5.364 m North of back of curb.	MSL	1308.69 ft	398.889 m	
75.00 ft	22.860 m North of center line of K-42 Highway.				
DLK 7-93					
Hoover and Pawnee					
COW Bench Mark.	SE corner of intersection.	City	108.19 ft	32.976 m	
44.00 ft	13.411 m South of center line.				
52.00 ft	15.850 m East of center line.	MSL	1295.59 ft	394.896 m	
Hoover and May					
COW Bench Mark.		City	110.57 ft	33.701 m	
48.00 ft	14.630 m East of 1/4 section corner.				
5.00 ft	1.524 m South of 1/4 section corner.	MSL	1297.97 ft	395.621 m	
JFG 1972					
Hoover and Harry					
COW Bench Mark.	North end of headwall on west end of RCBC	City	114.26 ft	34.826 m	
100.00 ft	30.480 m North of Harry.	MSL	1301.66 ft	396.746 m	

Hoover and Pueblo							
	COW Bench Mark.	NW Corner of intersection. 0.5 miles (0.81 km) north of Harry.	City	126.14 ft	38.447 m		
		3.90 ft 1.189 m North of back of curb.	MSL	1313.54 ft	400.367 m		
		91.00 ft 27.737 m West of center line of Hoover.					
		18.60 ft 5.669 m North of center line of Pueblo.					
		35.50 ft 10.820 m SE of PP.					
DLK 7-93							
Hoover and Maple ( Big Ditch )							
	COW Bench Mark.	Center of headwall, west end of bridge, on center line of Maple.	City	131.58 ft	40.106 m		
		DLK 7-93	MSL	1318.98 ft	402.025 m		
Hoover and Maple ( Big Ditch )							
	COW Bench Mark.	Center of headwall, east end of bridge, on center line of Maple.	City	132.53 ft	40.395 m		
		DLK 7-93	MSL	1319.93 ft	402.315 m		
Hoover and Second St.							
	COW Bench Mark.	SE corner of intersection.	City	120.47 ft	36.719 m		
		West side of concrete base for KG & E tower.					
		25.00 ft 7.620 m East of center line.	MSL	1307.87 ft	398.639 m		
		28.00 ft 8.534 m South of center line.					
		DLK 7-93					
Hoover and Central							
	COW Bench Mark.	NE corner of intersection.	City	123.29 ft	37.578 m		
		34.00 ft 10.363 m East of center line.	MSL	1310.69 ft	399.498 m		
		42.00 ft 12.802 m North of center line.					
		54.40 ft 16.581 m NE of section corner iron.					
		10.20 ft 3.109 m NE of center of PP.					
		JFG 1972					
Hoover and Nineth							
	COW Bench Mark.	SE corner of intersection.	City	126.29 ft	38.494 m		
		34.00 ft 10.363 m East of center line.	MSL	1313.69 ft	400.414 m		
		42.00 ft 12.802 m South of center line.					
		6.50 ft 1.981 m West of chain link fence corner.					
		1.50 ft 0.457 m South of chain link fence corner.					
		JFG 1972					
Curtis and 13th St. North							
	COW Bench Mark.	Center line of Curtis extended.	City	129.15 ft	39.366 m		
		2.00 ft 0.610 m South of south property line of I-235 R/W.	MSL	1316.55 ft	401.285 m		
		21.00 ft 6.401 m West of pole line extended south.					
		74.00 ft 22.555 m NNW of street light pole.					
		68.00 ft 20.726 m West of chain link fence corner.					
		JFG 1971					
Hoover and 21st St. North							
	COW Bench Mark.	NW corner of intersection.	City	139.07 ft	42.389 m		
		48.50 ft 14.783 m West of center line.	MSL	1326.47 ft	404.308 m		
		28.00 ft 8.534 m North of center line.					
		16.00 ft 4.877 m West of PP.					
		53.20 ft 16.215 m NW of section corner iron					
		DLK 6-93					
Hoover and 25th St. North							
	COW Bench Mark.	SW corner of intersection.	City	139.82 ft	42.617 m		
		3.50 ft 1.067 m North of 4' tall chain link fence.	MSL	1327.22 ft	404.537 m		
		4.50 ft 1.372 m NW of center of PP.					
		17.00 ft 5.182 m South of center of gravel road.					
		46.70 ft 14.234 m SW of 1/4 section corner iron.					
		32.00 ft 9.754 m West of section line N/S.					
		35.50 ft 10.820 m West of center line of Hoover.					
		35.50 ft 10.820 m South of 1/2 section line E/W.					
Hoover and 29th St. North							
	COW Bench Mark.	SW corner of intersection.	City	142.76 ft	43.513 m		
		26.50 ft 8.077 m South of section line.	MSL	1330.16 ft	405.433 m		
		22.00 ft 6.706 m South of center line of gravel road.					
		14.80 ft 4.511 m NE of chain link fence.					
		52.90 ft 16.124 m SW of section corner iron.					
		48.50 ft 14.783 m West of center line of Hoover.					
		46.50 ft 14.173 m West of section line running N/S.					
Hoover and 33rd St. North							
	COW Bench Mark.	SE corner of intersection.	City	142.03 ft	43.291 m		
		41.00 ft 12.497 m East of center line of Hoover.	MSL	1329.43 ft	405.210 m		
		44.23 ft 13.481 m ESE of 1/4 section corner iron.					
		71.90 ft 21.915 m East of east face of telephone pole.					
		5.80 ft 1.768 m West of north end of steel post of entrance into airport.					
Hoover and 37th St. North							
	COW Bench Mark.	SW corner of intersection.	City	146.34 ft	44.604 m		
		17.20 ft 5.243 m South of center line.	MSL	1333.74 ft	406.524 m		
		48.00 ft 14.630 m West of center line.					
		16.40 ft 4.999 m West of PP.					
		7.40 ft 2.256 m North of PP.					
		3.00 ft 0.914 m North of 4' high chain link fence.					
		15.20 ft 4.633 m WNW of chain link fence corner.					
		48.50 ft 14.783 m SW of section corner iron.					
Hoover and K-96 Highway							
	COW Bench Mark.	North R/W of K-96 Highway. West R/W of Hoover.	City	145.74 ft	44.422 m		
		6.90 ft 2.103 m ESE of PP.	MSL	1333.14 ft	406.341 m		
		18.40 ft 5.608 m West of north guard rail post.					
		10.00 ft 3.048 m SE of barb wire fence post.					
		42.50 ft 12.954 m West of center line.					



Hoover and 45th St. North					
COW Bench Mark.	NE corner of intersection.		City	147.89 ft	45.077 m
10.20 ft	3.109 m	SSE of PP.			
58.80 ft	17.922 m	ESE of PP on NW corner.	MSL	1335.29 ft	406.996 m
85.50 ft	26.060 m	NE of gas line marker.			
59.00 ft	17.983 m	North of gas line marker.			
28.50 ft	8.687 m	East of center line.			
14.50 ft	4.420 m	North of center line.			
Hoover and 53rd St. North					
COW Bench Mark.	NW corner of intersection.		City	151.95 ft	46.314 m
69.50 ft	21.184 m	West of center line.			
58.00 ft	17.678 m	North of center line.	MSL	1339.35 ft	408.234 m
33.30 ft	10.150 m	West of west edge of asphalt.			
3.00 ft	0.914 m	South of chain link fence corner.			
<b>Line 11-A: Zoo Boulevard</b>			<b>Line 11-A: Zoo Boulevard</b>		
Big Ditch and MacArthur					
COW Bench Mark.	West bound lane, east end of bridge. East of Hoover.		City	116.52 ft	35.515 m
			MSL	1303.92 ft	397.435 m
Zoo Blvd. and Big Ditch					
COW Bench Mark.	SW corner of bridge at corner stairs.		City	144.66 ft	44.092 m
48.00 ft	14.630 m	+/- south of center line of Zoo Blvd.	MSL	1332.06 ft	406.012 m
Zoo Blvd. and Big Ditch					
COW Bench Mark.	NW corner of bridge at corner stairs.		City	144.71 ft	44.108 m
48.00 ft	14.630 m	+/- north of center line of Zoo Blvd.	MSL	1332.11 ft	406.027 m
Zoo Blvd. and Big Ditch					
COW Bench Mark.	NE wingwall. East side of Big Ditch. On railroad bridge.		City	142.99 ft	43.583 m
90.00 ft	27.432 m	+/- North of center line of Zoo Blvd.	MSL	1330.39 ft	405.503 m
Zoo Blvd. and Big Ditch					
	Square cut on east corner of concrete wall around large water main, west side of Zoo Blvd., west side of Big Ditch.		City	140.14 ft	42.716 m
	JFG 1973		MSL	1327.54 ft	404.635 m
<b>Line 12: Anna</b>			<b>Line 12: Anna</b>		
Anna and Pawnee					
COW Bench Mark.	NE corner of intersection.		City	106.19 ft	32.367 m
5.90 ft	1.798 m	East of center line of telephone pole.			
6.80 ft	2.073 m	West of KGE pole, which is 42.7 ft (13.015 m) east and 29.6 ft (9.022 m) north of 1/4 section corner iron	MSL	1293.59 ft	394.286 m
54.70 ft	16.673 m	NE to 1/4 section corner iron.			
Anna and May					
COW Bench Mark.	West side of Anna and south line of drive into trailer park, located by 2201 S. Anna.		City	110.10 ft	33.558 m
125.00 ft	38.100 m	South of 1/4 section corner iron.	MSL	1297.50 ft	395.478 m
2.00 ft	0.610 m	East of fence corner.			
2.00 ft	0.610 m	SE of PP.			
128.95 ft	39.304 m	SW of 1/4 section corner iron.			
Anna and Maple					
COW Bench Mark.	SW corner of intersection.		City	116.70 ft	35.570 m
	NW corner of concrete KG & E vault.		MSL	1304.10 ft	397.490 m
147.50 ft	44.958 m	West of Anna.			
64.10 ft	19.538 m	South of center line of Maple.			
160.81 ft	49.015 m	SW of 1/2" pipe in center line of both.			
69.40 ft	21.153 m	SW of center of MH in center line of Maple.			
	DLK 6-94				
Anna and Second St.					
COW Bench Mark.	NW corner of intersection.		City	119.67 ft	36.474 m
42.00 ft	12.802 m	West of center line.			
34.00 ft	10.363 m	North of center line.	MSL	1307.07 ft	398.394 m
53.65 ft	16.353 m	SE to south iron of two irons.			
1.70 ft	0.518 m	West of fence running north.			
6.40 ft	1.951 m	South of fence running west.			
	JFG 1972				
Anna and Central					
COW Bench Mark.	NW corner of intersection.		City	124.52 ft	37.953 m
34.00 ft	10.363 m	North of center line.			
42.00 ft	12.802 m	West of center line.	MSL	1311.92 ft	399.873 m
53.80 ft	16.398 m	SE to 1/4 section corner iron.			
25.00 ft	7.620 m	North to corner of concrete parking lot.			
10.40 ft	3.170 m	South to back of curb.			
	JFG 1972				
Anna and 9th St. North					
COW Bench Mark.	SW corner of intersection.		City	124.64 ft	37.990 m
33.00 ft	10.058 m	West of center line.			
42.00 ft	12.802 m	South of center line.	MSL	1312.04 ft	399.910 m
52.60 ft	16.032 m	NE to 1/4 section corner iron.			
10.00 ft	3.048 m	East of Elm tree.			
17.50 ft	5.334 m	East to back of curb.			
26.50 ft	8.077 m	North to back of curb.			
	JFG 1971				
Anna and 13th St. North					
COW Bench Mark.	SE corner of intersection.		City	129.11 ft	39.353 m
30.20 ft	9.205 m	South of center line.			
49.10 ft	14.966 m	East of center line.	MSL	1316.51 ft	401.272 m
11.80 ft	3.597 m	South of back of curb.			
15.10 ft	4.602 m	East of center of fire hydrant.			
	DLK 7-94				

Baker and 13th St. North					
Temporary bench mark. Railroad spike in north face of street light pole. SE corner of intersection.	City	126.68 ft	38.612 m		
DLK 5-94	MSL	1314.08 ft	400.532 m		
0.5 miles ( 0.81 km ) east of Hoover on 29th St. North					
COW Bench Mark. North R/W.	City	137.45 ft	41.895 m		
29.70 ft 9.053 m North of center of gravel road.					
5.60 ft 1.707 m SW of center of 8" steel fence post.	MSL	1324.85 ft	403.814 m		
10.80 ft 3.292 m East of PP.					
21.60 ft 6.584 m South of fence corner.					
Located on 1/2 section line running N/S.					
0.5 miles ( 0.81 km ) west of West St. on 37th St. North					
COW Bench Mark. South R/W.	City	0.00 ft	0.000 m		
7.30 ft 2.225 m North of chain link fence.					
12.60 ft 3.840 m NE of yellow gate pylon post.	MSL	1187.40 ft	361.920 m		
47.50 ft 14.478 m South of center of 37th St. North.					
28.50 ft 8.687 m West of center of N/S road.					
0.5 miles ( 0.81 km ) east of Hoover on 53rd St. North					
COW Bench Mark. South R/W.	City	147.42 ft	44.934 m		
42.30 ft 12.893 m South of center line of 53rd St. North.					
4.60 ft 1.402 m North of PP.	MSL	1334.82 ft	406.853 m		
3rd PP west of drive going south into Crystal Lake.					
<b>Line 12-A: Zoo Boulevard</b>					
Zoo Blvd. and 13th St. North					
Temporary bench mark. Box cut on SW corner of concrete base for railroad signal light.	City	134.27 ft	40.925 m		
East side of railroad tracks on north side of 13th St. North.					
DLK 5-94	MSL	1321.67 ft	402.845 m		
<b>Line 13: West Street</b>					
* West St. and 55th St. South					
COW Bench Mark. SE corner of bridge over Big Ditch, on walk section.	City	101.65 ft	30.983 m		
200.00 ft 60.960 m West of West St.					
Bridge built in 1960.	MSL	1289.05 ft	392.902 m		
* Big Slough - Cowskin Floodway and 55th St. South					
COW Bench Mark. NW corner of bridge.	City	101.58 ft	30.962 m		
* Same bridge	MSL	1288.98 ft	392.881 m		
West St. and 47th St. South					
COW Bench Mark. SE corner of intersection.	City	92.29 ft	28.130 m		
42.10 ft 12.832 m East of center line.					
51.00 ft 15.545 m South of center line.	MSL	1279.69 ft	390.050 m		
99.80 ft 30.419 m East of PP on SW corner.					
23.80 ft 7.254 m South of PP.					
West St. and 43rd St. South					
COW Bench Mark. NW corner of concrete slab at Lift Station.	City	94.69 ft	28.862 m		
53.49 ft 16.304 m ENE of 1/4 section corner iron.					
50.70 ft 15.453 m East of center line of West St.	MSL	1282.09 ft	390.781 m		
West St. and MacArthur					
COW Bench Mark. NE corner of intersection.	City	99.46 ft	30.315 m		
41.50 ft 12.649 m North of center line.					
52.20 ft 15.911 m East of center line.	MSL	1286.86 ft	392.235 m		
67.00 ft 20.422 m NE of Section corner.					
13.10 ft 3.993 m NE of pole.					
West St. and I-235 ( Approx. 35th St. South )					
COW Bench Mark. NW corner of RCBC, top corral rail, north R/W of I-235 and south R/W of Calvert St.	City	104.78 ft	31.937 m		
39.20 ft 11.948 m West of center line of West St.					
114.20 ft 34.808 m WSW of fire hydrant.	MSL	1292.18 ft	393.856 m		
549.70 ft 167.549 m NNW of center of I-235 and West St.					
West St. and 31st St. South					
COW Bench Mark. SE corner of intersection.	City	103.47 ft	31.539 m		
53.00 ft 16.154 m East of center line.					
44.00 ft 13.411 m South of center line.	MSL	1290.87 ft	393.458 m		
4.50 ft 1.372 m East of east face of N/S sidewalk.					
69.16 ft 21.080 m SE of 1/4 section corner.					
JFG 1973					
West St. and 27th St. South					
COW Bench Mark. 0.5 miles ( 0.81 km ) north of 31st St. South.	City	104.85 ft	31.958 m		
1.90 ft 0.579 m South of south edge of sidewalk.					
18.60 ft 5.669 m West of back of curb.	MSL	1292.25 ft	393.878 m		
34.30 ft 10.455 m West of center line.					
98.20 ft 29.931 m North of PP.					
73.10 ft 22.281 m West of fire hydrant.					
West St. and Pawnee					
COW Bench Mark. On center line of West Street, between Pawnee and K-42 Highway, in center of north median, south of K-42 Highway.	City	109.98 ft	33.520 m		
17.50 ft 5.334 m North of south end of median.					
49.20 ft 14.996 m North of section corner iron.	MSL	1297.38 ft	395.440 m		
JFG 1973					
West St. and K-42 Highway					
COW Bench Mark. In turn island, NE corner of intersection.	City	110.18 ft	33.581 m		
DLK 2-95 Corner of concrete base of traffic signal light pole.					
	MSL	1297.58 ft	395.501 m		
West St. and May					
COW Bench Mark.	City	109.24 ft	33.296 m		
28.00 ft 8.534 m South of center line.					
53.00 ft 16.154 m East of center line.	MSL	1296.64 ft	395.216 m		
JFG 1973					

Gone 2-94

West St. and May					
	Temporary bench mark. SE corner of intersection. Box cut in NE corner of concrete base of sign "May Central Park".	City	111.67 ft	34.037 m	
		MSL	1299.07 ft	395.957 m	
West St. and May					
	COW Bench Mark. NW corner of intersection.	City	108.63 ft	33.110 m	
	65.00 ft 19.812 m West of center line of West St.				
	50.00 ft 15.240 m North of center line of May.	MSL	1296.03 ft	395.030 m	
	28.80 ft 8.778 m North of center of median.				
	14.40 ft 4.389 m West of west face of sidewalk.				
	2.50 ft 0.762 m North of back of curb.				
	2.20 ft 0.671 m West of west face of SWS inlet.				
	DLK 8-94				
West St. and Harry					
	COW Bench Mark. SW corner of intersection.	City	111.77 ft	34.067 m	
	53.00 ft 16.154 m West of center line.				
	43.00 ft 13.106 m South of center line.	MSL	1299.17 ft	395.986 m	
	23.20 ft 7.071 m WNW of street light pole.				
	8.90 ft 2.713 m North of NE corner of asphalt parking lot.				
	22.60 ft 6.888 m South of back of curb.				
	69.20 ft 21.092 m SW of section corner iron.				
	JFG 1973				
West St. and Kellogg					
	COW Bench Mark. East side of railroad crossing signal base.	City	119.12 ft	36.308 m	
	46.80 ft 14.265 m West of center line.				
	111.90 ft 34.107 m South of center line.	MSL	1306.52 ft	398.227 m	
	18.10 ft 5.517 m West of center line of south bound West St.				
	DLK 6-94				
West St. and Maple					
	COW Bench Mark. SW corner of intersection. SW corner of traffic signal light base in turn island.	City	117.02 ft	35.668 m	
	67.51 ft 20.577 m SW of section corner iron.	MSL	1304.42 ft	397.587 m	
	37.45 ft 11.415 m West of "X" cut in median nose south of intersection.				
	58.99 ft 17.980 m South of "X" cut in median nose west of intersection.				
	DLK 6-94				
West St. and Second St. North					
	COW Bench Mark. SW corner of intersection.	City	118.87 ft	36.232 m	
	34.00 ft 10.363 m West of center line.				
	18.00 ft 5.486 m South of center line.	MSL	1306.27 ft	398.151 m	
	1.50 ft 0.457 m South of back of curb.				
	39.06 ft 11.905 m NE to north iron of 2 irons.				
	38.68 ft 11.790 m NE to south iron of 2 irons.				
	11.30 ft 3.444 m NNW to traffic signal pole.				
	JFG 1972				
West St. and Central					
	COW Bench Mark. SE corner of intersection. SW corner of traffic signal light base in turn island.	City	121.84 ft	37.137 m	
	60.60 ft 18.471 m SE of section corner iron.	MSL	1309.24 ft	399.056 m	
	50.40 ft 15.362 m East of center of traffic manhole in median.				
	44.50 ft 13.564 m South of center of traffic manhole in median.				
	DLK 5-94				
West St. and 9th St. North					
	COW Bench Mark. SW corner of intersection.	City	121.89 ft	37.152 m	
	24.00 ft 7.315 m South of center line.				
	52.00 ft 15.850 m West of center line.	MSL	1309.29 ft	399.072 m	
	3.00 ft 0.914 m North of front of walk running E/W.				
	56.61 ft 17.255 m SW of 1/4 section corner.				
	2.50 ft 0.762 m West of back of walk running N/S.				
	24.80 ft 7.559 m WNW of light pole.				
	Transferred JAK 1960				
West St. and 13th St. North					
	COW Bench Mark. NW corner of intersection. East side of traffic signal light base.	City	126.11 ft	38.438 m	
	70.28 ft 21.421 m NW of section corner iron.				
	35.80 ft 10.912 m North of center line.	MSL	1313.51 ft	400.358 m	
	61.00 ft 18.593 m West of center line.				
	DLK 5-94				
West St. and 17th St. North					
	COW Bench Mark. SW corner of intersection.	City	130.15 ft	39.670 m	
	41.50 ft 12.649 m South of center line.				
	36.30 ft 11.064 m East of center line.	MSL	1317.55 ft	401.589 m	
	0.80 ft 0.244 m East of east face of sidewalk.				
	1.00 ft 0.305 m South of south face of sidewalk.				
	9.40 ft 2.865 m South of center of PP.				
	9.50 ft 2.896 m East of 4' high chain link fence corner.				
West St., approx. 0.75 miles ( 1.215 km ) east of Hoover on 21st St. North					
	COW Bench Mark. NW corner of RCBC.	City	134.22 ft	40.910 m	
	North side of 21st St. North.				
	100.00 ft 30.480 m East of beginning of radius northeasterly on 21st St. North side of Big Ditch.	MSL	1321.62 ft	402.830 m	
West St., approx. 0.75 miles ( 0.1.215 km ) south of 29th St. North					
	Temporary bench mark. RR spike in west face of PP. Only PP on east side of West St., approximately north R/W of Big Ditch. Beginning of radius southwesterly.	City	130.91 ft	39.901 m	
		MSL	1318.31 ft	401.821 m	
West St. and 29th St. North					
	COW Bench Mark. Top of headwall of RCBC under West St. North of 29th St., east side of West St.	City	134.40 ft	40.965 m	
		MSL	1321.80 ft	402.885 m	

West St. and 0.5 miles ( 0.81 km ) north of 29th St. North				
COW Bench Mark.		City	0.00 ft	0.000 m
2.60 ft	0.792 m			
	West of chain link fence.			
48.10 ft	14.661 m	MSL	1187.40 ft	361.920 m
	East of center line of West St.			
75.70 ft	23.073 m			
	ENE of PP on west side of West St.			
West St. and 37th St. North				
COW Bench Mark.	SE corner of intersection.	City	0.00 ft	0.000 m
4.50 ft	1.372 m			
	South of south face of PP.			
43.70 ft	13.320 m	MSL	1187.40 ft	361.920 m
	East of center line of West St.			
19.60 ft	5.974 m			
	West of chain link fence			
West St. and 53rd St. North				
COW Bench Mark.	NW corner of bridge over Arkansas River. On hubguard.	City	160.92 ft	49.048 m
	Bridge built in 1955. Bench Mark stamped "1348.17".			
		MSL	1348.32 ft	410.968 m
<b>Line 13-A:</b>		<b>Line 13-A:</b>		
West and Pawnee				
USGS Standard Disc, stamped "K 39 1934" at intersection of Missouri Pacific and Santa Fe Railroad.		City	106.39 ft	32.428 m
61.00 ft	18.593 m			
	Southeast of intersection.	MSL	1293.79 ft	394.347 m
47.00 ft	14.326 m			
	South of center line of Missouri Pacific RR.			
19.50 ft	5.944 m			
	SE of center line of tracks.			
20.00 ft	6.096 m			
	NW of barb wire fence.			
64.00 ft	19.507 m			
	West of 6' chain link fence corner.			
1490.3 ft	454.234 m			
	WSW to section corner iron.			
792.52 ft	241.560 m			
	South of center line of Pawnee and Kessler.			
CHM 1960				
Leonine and Pawnee				
COW Bench Mark.	Top corral rail, SW corner of RCBC.	City	107.98 ft	32.912 m
150.00 ft	45.720 m			
	West of Leonine.			
45.00 ft	13.716 m	MSL	1295.38 ft	394.832 m
	South of center line of Pawnee.			
Southwest Blvd. and May				
Temporary bench mark.	Cross cut on top of 1-1/4" bolt on SW corner of railroad signal light base. North side of May, east side of Southwest Blvd.	City	110.36 ft	33.638 m
DLK 7-94		MSL	1297.76 ft	395.557 m
Southwest Blvd. and May				
COW Bench Mark.	SE corner of intersection. NW corner of concrete base for railroad signal light crossing.	City	109.71 ft	33.440 m
23.50 ft	7.163 m			
	South of center line.	MSL	1297.11 ft	395.359 m
48.00 ft	14.630 m			
	SE of center of north bound traffic of K-42 @ right angle			
DLK 2-95				
* 21st St. North and Big River Bridge				
COW Bench Mark.	Top east end of concrete wing on northeast corner of bridge on 21st street and the Big River.	City	135.80 ft	41.392 m
JFG 1973		MSL	1323.20 ft	403.312 m
* 21st St. North and Big River Bridge				
COW Bench Mark.	South hubguard, SW corner of bridge.	City	135.82 ft	41.398 m
DLK		MSL	1323.22 ft	403.317 m
* Same bridge				
<b>Line 14: Sheridan</b>		<b>Line 14: Sheridan</b>		
* West St. and 55th St. South				
COW Bench Mark.	SE corner of bridge over Big Ditch, on walk section.	City	101.65 ft	30.983 m
200.00 ft	60.960 m			
	West of West St. Bridge. Built in 1960.	MSL	1289.05 ft	392.902 m
Rev DLK 5-94				
* Big Slough - Cowskin Floodway and 55th St. South				
COW Bench Mark.	NW corner of bridge.	City	101.58 ft	30.962 m
		MSL	1288.98 ft	392.881 m
* Same bridge				
Sheridan and 47th St. South				
COW Bench Mark.	0.5 miles ( 0.81 km ) east of West St.	City	92.11 ft	28.075 m
5.00 ft	1.524 m			
	East of iron in center line of 47th St. South.	MSL	1279.51 ft	389.995 m
49.50 ft	15.088 m			
	South of iron in center line of 47th St. South.			
Sheridan and MacArthur				
COW Bench Mark.	0.5 miles ( 0.81 km ) east of West St. Near south R/W.	City	96.76 ft	29.492 m
32.70 ft	9.967 m			
	South of center line.	MSL	1284.16 ft	391.412 m
36.80 ft	11.217 m			
	SE of 1/4 section corner iron.			
36.00 ft	10.973 m			
	East of PP.			
88.60 ft	27.005 m			
	North of yard light.			
Sheridan and 33rd St. South				
COW Bench Mark.	NE corner of RCBC. East end, north side of RCBC on hubguard.	City	99.31 ft	30.270 m
30.00 ft	9.144 m			
	North of center line.	MSL	1286.71 ft	392.189 m
24.30 ft	7.407 m			
	West of center line.			
68.00 ft	20.726 m			
	West of fire hydrant.			
DLK 7-94				
Sheridan and 31st St. South				
COW Bench Mark.	SW corner of intersection. SE corner of RCBC.	City	103.52 ft	31.554 m
	South handrail to reinforced concrete box at Sheridan and 31st St. South.	MSL	1290.92 ft	393.474 m
JFG 1973				
Sheridan and Pawnee				
COW Bench Mark.		City	103.29 ft	31.483 m
53.00 ft	16.154 m			
	South of center line of Pawnee.	MSL	1290.69 ft	393.403 m
6.00 ft	1.829 m			
	East of 1/4 section line south. (Center line of Sheridan north)			
JFG 1973				

Sheridan and Harry					
Temporary bench mark. Railroad signal on north side of Harry. Top of bolt, southeast corner of concrete base.			City	112.98 ft	34.436 m
150.00 ft	45.720 m	West of center line of Sheridan St. south.	MSL	1300.38 ft	396.356 m
DLK 8-93					
Sheridan and Harry					
COW Bench Mark. Concrete base for RR signal light. South side of Harry. West side of railroad tracks.			City	112.42 ft	34.266 m
150.00 ft	45.720 m	West of Sheridan.	MSL	1299.82 ft	396.185 m
3.00 ft	0.914 m	South of south curb.			
DLK 2-94					
* Sheridan and McCormick					
COW Bench Mark. SE corner of intersection.			City	112.36 ft	34.247 m
24.00 ft	7.315 m	East of center line.			
46.30 ft	14.112 m	South of center line.	MSL	1299.76 ft	396.167 m
8.50 ft	2.591 m	East of back of curb.			
24.00 ft	7.315 m	South of back of curb.			
39.50 ft	12.040 m	WSW of center of PP.			
51.50 ft	15.697 m	ESE of center of PP.			
DLK 6-94					
* Sheridan and McCormick					
COW Bench Mark. SE corner of intersection. On radius of curb.			City	114.46 ft	34.887 m
18.00 ft	5.486 m	East of center line.			
29.30 ft	8.931 m	South of center line.	MSL	1301.86 ft	396.807 m
42.80 ft	13.045 m	West of center of PP.			
DLK 6-94					
* Same Intersection					
Sheridan and Maple					
COW Bench Mark.			City	114.04 ft	34.759 m
41.00 ft	12.497 m	North of center line.			
26.00 ft	7.925 m	West of center line.	MSL	1301.44 ft	396.678 m
CHM 1954					
Sheridan and Second St. North					
COW Bench Mark. South parking.			City	116.65 ft	35.555 m
13.00 ft	3.962 m	South of back of curb.			
28.50 ft	8.687 m	South of center line.	MSL	1304.05 ft	397.474 m
13.00 ft	3.962 m	North of 6' chain link fence.			
15.20 ft	4.633 m	East of center line of Sheridan extended.			
36.00 ft	10.973 m	ESE of center of HLP.			
DLK 6-94					
Sheridan and Central					
COW Bench Mark.			City	121.66 ft	37.082 m
30.00 ft	9.144 m	South of center line.			
42.00 ft	12.802 m	East of center line.	MSL	1309.06 ft	399.001 m
4.20 ft	1.280 m	West of west edge of drive.			
7.60 ft	2.316 m	East of center of fire hydrant.			
51.54 ft	15.709 m	SE of 1/4 section corner iron.			
RBM Re-run 1957					
Sheridan and 9th St. North					
COW Bench Mark. SE corner of intersection.			City	120.70 ft	36.789 m
20.00 ft	6.096 m	South of center line.			
43.30 ft	13.198 m	East of center line.	MSL	1308.10 ft	398.709 m
47.90 ft	14.600 m	SE of center of section iron.			
4.50 ft	1.372 m	South of back of curb.			
10.70 ft	3.261 m	NE of center of HLP.			
20.50 ft	6.248 m	ENE of center of fire hydrant.			
DLK 7-94					
Sheridan and 13th St. North					
COW Bench Mark. NE corner of intersection.			City	125.72 ft	38.319 m
29.50 ft	8.992 m	East of center line.			
35.90 ft	10.942 m	North of center line.	MSL	1313.12 ft	400.239 m
14.20 ft	4.328 m	ESE of back of curb, north end return.			
11.00 ft	3.353 m	North of back of curb, east end return.			
DLK					
Sheridan and 17th St. North					
COW Bench Mark. SE corner of intersection.			City	125.15 ft	38.145 m
32.00 ft	9.754 m	East of center line.			
23.50 ft	7.163 m	South of center line.	MSL	1312.55 ft	400.064 m
34.00 ft	10.363 m	NW of NW corner of concrete drive.			
8.10 ft	2.469 m	South of back of curb, east end return.			
18.60 ft	5.669 m	NE of back of curb, south end return.			
CHM 1954					
Cardinal and McLean					
COW Bench Mark.			City	128.65 ft	39.211 m
3.00 ft	0.914 m	SE of iron on SW corner of intersection.			
6.50 ft	1.981 m	NE on iron on SW corner of intersection.	MSL	1316.05 ft	401.131 m
7.40 ft	2.256 m	SW of back of curb on Cardinal.			
14.20 ft	4.328 m	East of street sign.			
51.90 ft	15.819 m	SW of NW corner of face of walk.			
JFG 1973					
Sheridan and 53rd St. North					
COW Bench Mark. NW corner of intersection.			City	0.00 ft	0.000 m
8.00 ft	2.438 m	SSW of PP.			
12.30 ft	3.749 m	SW of stop sign.	MSL	1187.40 ft	361.920 m
41.90 ft	12.771 m	North of center line of 53rd St. North.			
23.90 ft	7.285 m	West of center line of Sheridan.			

<b>Line 14-A:</b> 0.25 miles ( 0.405 km ) west of Meridian on 55th St. South COW Bench Mark. Center of RCB on north side at south face of walk. DLK 5-94		<b>Line 14-A:</b> City 86.53 ft 26.374 m MSL 1273.93 ft 388.294 m
<b>Line 15: Meridian</b> Meridian and 55th St. South Temporary bench mark. SW corner of intersection. Rail road spike in north face of power pole. 48.00 ft 14.630 m SW of section corner iron. 36.00 ft 10.973 m South of center line. 32.00 ft 9.754 m West of center line. DLK 5-94		<b>Line 15: Meridian</b> City 85.62 ft 26.097 m MSL 1273.02 ft 388.016 m
Meridian and 55th St. South COW Bench Mark. NE corner of intersection. 42.80 ft 13.045 m North of center line. 35.00 ft 10.668 m East of center line. 15.00 ft 4.572 m NE of center of telephone pole. 12.70 ft 3.871 m NW of 2-rail fence corner. 58.50 ft 17.831 m NE of section corner. DLK 7-94		City 85.77 ft 26.143 m MSL 1273.17 ft 388.062 m
Meridian and 51st St. South COW Bench Mark. 30.00 ft 9.144 m West of 1/4 section corner iron. 44.00 ft 13.411 m North of 1/4 section corner iron. 55.32 ft 16.862 m NW of 1/4 section corner iron. 54.70 ft 16.673 m NW of center of sanitary sewer MH. 55.80 ft 17.008 m SSW of center of headwall under Meridain.		City 88.62 ft 27.011 m MSL 1276.02 ft 388.931 m
Meridian and 47th St. South COW Bench Mark. 44.00 ft 13.411 m North of center line. 30.00 ft 9.144 m East of center line. 54.40 ft 16.581 m NE of section corner iron. 3.50 ft 1.067 m North of face of PP.		City 91.78 ft 27.975 m MSL 1279.18 ft 389.894 m
Meridian and 43rd St. South COW Bench Mark. 44.00 ft 13.411 m North of 1/4 section corner iron. 30.00 ft 9.144 m East of 1/4 section corner iron. 67.00 ft 20.422 m North of 4.00 ft (1.219 m) gas vent pipe. 70.00 ft 21.336 m North of 4.00 ft (1.219 m) fence EXS. 94.20 ft 28.712 m North of telephone pole. 41.00 ft 12.497 m South of telephone pole. 54.60 ft 16.642 m NE of 1/4 section corner iron.		City 93.40 ft 28.467 m MSL 1280.80 ft 390.387 m
Meridian and MacArthur Temporary bench mark. RR spike in north face of HLP, south side of MacArthur, first pole east of Meridian. 175.00 ft 53.340 m East of Meridian. DLK 8-93		City 98.60 ft 30.053 m MSL 1286.00 ft 391.973 m
Meridian and MacArthur COW Bench Mark. NE corner of intersection. 53.00 ft 16.154 m North of center line. 51.30 ft 15.636 m East of center line. 22.00 ft 6.706 m SE of center of fire hydrant. 24.40 ft 7.437 m NE of center of street light pole. DLK 7-94		City 97.46 ft 29.706 m MSL 1284.86 ft 391.625 m
Meridian and 35th St. South Brass cap on west hubguard of RCBC, north of I-235. NW corner of RCBC. DLK 7-93		City 100.15 ft 30.526 m MSL 1287.55 ft 392.445 m
Meridian and 31st St. South COW Bench Mark. NW corner of intersection. East end of headwall. 40.00 ft 12.192 m West of center line. 72.00 ft 21.946 m North of center line. 8.30 ft 2.530 m NW of traffic signal MH. 38.60 ft 11.765 m NE of traffic signal pole. 82.03 ft 25.003 m NW of section corner iron. DLK 7-93		City 96.88 ft 29.529 m MSL 1284.28 ft 391.449 m
Meridain and 27th St. South COW Bench Mark. NE corner of intersection. 42.50 ft 12.954 m North of center line. 44.00 ft 13.411 m East of center line. 2.50 ft 0.762 m East of back of E/W sidewalk. 15.70 ft 4.785 m NW of fire hydrant. JFG Adjusted 1959		City 99.62 ft 30.363 m MSL 1287.02 ft 392.283 m
Meridian and Pawnee COW Bench Mark. NW corner of intersection. Traffic signal light base. 71.10 ft 21.671 m NW of section corner iron. 9.30 ft 2.835 m SSW of center of traffic signal MH. 42.50 ft 12.954 m SW of center of curb inlet. DLK 8-93		City 102.43 ft 31.221 m MSL 1289.83 ft 393.140 m
Meridian and May COW Bench Mark. SE corner of intersection. 34.50 ft 10.516 m South of center line. 52.40 ft 15.972 m East of center line. 5.00 ft 1.524 m West of concrete drive. 6.00 ft 1.829 m North of chain link fence. 13.00 ft 3.962 m SE of 4 inch concrete post (telephone cable marker). RBM 1955		City 104.85 ft 31.959 m MSL 1292.25 ft 393.879 m

Meridian and Harry			
COW Bench Mark.	In turn island.	SE corner of intersection.	City 106.34 ft 32.412 m
29.50 ft	8.992 m	South of center line.	
61.00 ft	18.593 m	East of center line.	MSL 1293.74 ft 394.332 m
0.50 ft	0.152 m	North of south face of sidewalk running E/W.	
DLK 8-93			
Meridian and Kellogg			
COW Bench Mark.	In turn island.	NE corner of traffic signal light base.	City 110.69 ft 33.738 m
185.60 ft	56.571 m	South of Kellogg.	
19.27 ft	5.873 m	West of center line of south bound Meridian.	MSL 1298.09 ft 395.658 m
DLK 6-94			
Meridian and Maple			
COW Bench Mark.	SW corner of intersection.	West face of concrete base for signal light pole.	City 112.09 ft 34.165 m
62.85 ft	19.157 m	SW of section corner iron.	MSL 1299.49 ft 396.085 m
13.60 ft	4.145 m	SSE of center of traffic signal MH.	
10.30 ft	3.139 m	South of center line of wheel chair ramp at back of curb	
DLK 7-93			
Meridian and 2nd St. North			
COW Bench Mark.	SW corner of intersection.	NE corner of traffic signal light base.	City 116.41 ft 35.482 m
23.70 ft	7.224 m	West of center line.	MSL 1303.81 ft 397.401 m
33.40 ft	10.180 m	South of center line.	
DLK 6-94			
Meridian and Central			
COW Bench Mark.			City 116.31 ft 35.451 m
42.30 ft	12.893 m	South of center line.	
35.80 ft	10.912 m	West of center line.	MSL 1303.71 ft 397.371 m
0.50 ft	0.152 m	South of back of sidewalk running E/W.	
16.60 ft	5.060 m	WNW of concrete street light pole.	
59.50 ft	18.136 m	West of fire hydrant.	
54.27 ft	16.541 m	SW of section corner iron.	
JFG 1971			
McLean and 9th St. North			
COW Bench Mark.	East side of McLean.	SW corner of concrete vault for waterline crossing.	City 116.87 ft 35.622 m
11.50 ft	3.505 m	East of back of curb. In-line with high edge of south side of 9th Street extended.	MSL 1304.27 ft 397.541 m
DLK 6-94			
Meridian and 13th St. North			
COW Bench Mark.	NE corner of intersection.	SW corner of traffic signal light pole.	City 118.54 ft 36.131 m
21.40 ft	6.523 m	East of center line.	MSL 1305.94 ft 398.051 m
40.50 ft	12.344 m	North of center line.	
DLK 6-95			
Meridian and 17th St. North			
COW Bench Mark.	NE corner of intersection.		City 122.77 ft 37.420 m
23.50 ft	7.163 m	East of center line.	MSL 1310.17 ft 399.340 m
36.50 ft	11.125 m	North of center line.	
41.60 ft	12.680 m	NE of 1/4 section corner iron.	
2.70 ft	0.823 m	West of west face of walk.	
7.40 ft	2.256 m	East of back of curb.	
62.40 ft	19.020 m	North of center of PP.	
DLK 6-95			
Benjamin and 21st St. North			
COW Bench Mark.	NE corner of concrete base for cross walk.		City 124.85 ft 38.054 m
28.20 ft	8.595 m	South of 21st St. North.	MSL 1312.25 ft 399.974 m
174.30 ft	53.127 m	East of Benjamin.	
185.60 ft	56.571 m	West of Richmond.	
DLK 5-94			
Meridian and 25th St. North			
COW Bench Mark.	In median between east and west bound traffic.		City 127.29 ft 38.798 m
36.00 ft	10.973 m	West of center line of Meridian north.	MSL 1314.69 ft 400.718 m
6.00 ft	1.829 m	South of center line of 25th St.	
3.00 ft	0.914 m	North of north curb for east bound traffic.	
9.00 ft	2.743 m	SW of tree.	
39.80 ft	12.131 m	NW of center of telephone pole.	
93.00 ft	28.346 m	West of center of HLP.	
JFG 1971			
Meridian and 29th St. North			
COW Bench Mark.	NE corner of intersection.		City 129.04 ft 39.331 m
32.00 ft	9.754 m	East of center line.	MSL 1316.44 ft 401.251 m
24.00 ft	7.315 m	North of center line.	
4.00 ft	1.219 m	North of back of curb E/W.	
IH 1957 Located in east face of sidewalk N/S.			
Womer and 37th St. North			
COW Bench Mark.	NW corner of intersection.	1 block east of Meridian.	City 136.66 ft 41.654 m
		NE corner of traffic signal light base.	
48.70 ft	14.844 m	NE of aircraft marker.	MSL 1324.06 ft 403.573 m
80.13 ft	24.424 m	West of "x" cut in median nose.	
45.30 ft	13.807 m	North of center line of 37th St.	
399.73 ft	121.838 m	East of 3/4" iron in intersection of Meridian and 37th St. north	
Meridian and 45th St. North			
COW Bench Mark.	0.5 miles ( 0.81 km ) south of 53rd St. North.		City 140.23 ft 42.742 m
		SE corner of concrete base around lift station.	
91.40 ft	27.859 m	NW of 1/2" iron at 1/4 section corner.	MSL 1327.63 ft 404.662 m
62.10 ft	18.928 m	West of center line of Meridian.	
DLK 7-94			

<b>Meridian and Keywest</b>			
COW Bench Mark.	NW corner of intersection.	City	141.96 ft 43.269 m
59.00 ft	17.983 m West of center line.		
32.30 ft	9.845 m North of center line.	MSL	1329.36 ft 405.189 m
11.80 ft	3.597 m North of north curb line of Keywest.		
4.80 ft	1.463 m NW of center of PP.		
23.40 ft	7.132 m SE of southeast corner of concrete wall.		
DLK 1983			
<b>Meridian and 53rd St. North</b>			
COW Bench Mark.	NE corner of intersection. Top of concrete headwall.	City	143.97 ft 43.882 m
44.00 ft	13.411 m North of center line.		
37.00 ft	11.278 m East of center line.	MSL	1331.37 ft 405.802 m
50.90 ft	15.514 m NE of section corner iron.		
9.00 ft	2.743 m NE of and radial to curb.		
26.00 ft	7.925 m East of section lline.		
DLK 8-94			
<b>Meridian and 61st St. North</b>			
COW Bench Mark. New city disk on bridge but no information.			
<b>Line 16: Glenn/Amidon</b>			
0.5 miles ( 0.81 km ) east of Meridian on 55th St. South		<b>Line 16: Glenn/Amidon</b>	
COW Bench Mark.	On 1/2 section line.	City	83.62 ft 25.487 m
37.23 ft	11.348 m North of iron in center line of 55th St. South.	MSL	1271.02 ft 387.407 m
DLK 5-94			
<b>Clarence and 47th St. South</b>			
COW Bench Mark.		City	85.10 ft 25.938 m
54.00 ft	16.459 m North of 1/4 section corner iron.		
34.00 ft	10.363 m East of 1/4 section corner iron.	MSL	1272.50 ft 387.858 m
8.50 ft	2.591 m ENE of center of fire hydrant.		
27.70 ft	8.443 m NW of center of telephone pole.		
64.20 ft	19.568 m NE of 1/4 section corner iron.		
10.80 ft	3.292 m East of back of curb.		
0.5 miles ( 0.81 km ) east of Meridian and MacArthur			
COW Bench Mark.		City	93.61 ft 28.532 m
84.00 ft	25.603 m North of 1/4 section corner.		
42.00 ft	12.802 m West of 1/4 section corner.	MSL	1281.01 ft 390.451 m
19.10 ft	5.822 m NW of PP.		
61.10 ft	18.623 m NW of HLP.		
93.70 ft	28.560 m NW of 1/4 section corner.		
43.00 ft	13.106 m West of woven wire fence.		
17.60 ft	5.364 m West of center of MH 1' deep.		
<b>Glenn and 35th St. South</b>			
COW Bench Mark.		City	93.17 ft 28.399 m
8.00 ft	2.438 m South of NE corner of Glenn.		
2.00 ft	0.610 m East of NE corner of Glenn.	MSL	1280.57 ft 390.318 m
44.10 ft	13.442 m SSW of SW corner of concrete step.		
2.50 ft	0.762 m SW of street sign.		
8.70 ft	2.652 m ENE of PP.		
JFG 1958			
<b>Glenn and 31st St. South</b>			
Destroyed Jan. 99 See Temp Below(Temp 1 Blk west)			
COW Bench Mark.		City	93.97 ft 28.643 m
8.00 ft	2.438 m South of NW corner of Glenn.		
3.00 ft	0.914 m West of NW corner of Glenn.	MSL	1281.37 ft 390.562 m
20.50 ft	6.248 m NNE of back of curb, west end return.		
17.30 ft	5.273 m NW of PP.		
13.50 ft	4.115 m WNW of back of curb, north end return.		
RBM 1955			
Temp BM North bolt Top of Flange of Fire Hydrant NE Corner of 31st & Euclid		City	96.98 ft
<b>Glenn and 27th St. South</b>			
COW Bench Mark.		City	97.55 ft 29.732 m
51.50 ft	15.697 m North of center line.		
31.50 ft	9.601 m East of center line.	MSL	1284.95 ft 391.652 m
8.70 ft	2.652 m West of fence corner.		
19.90 ft	6.066 m NW of top FH.		
16.40 ft	4.999 m East of east back of curb.		
RBM 1955			
<b>Glenn and Pawnee</b>			
COW Bench Mark.	Southeast corner of intersection.	City	101.49 ft 30.934 m
34.50 ft	10.516 m East of center line.		
54.00 ft	16.459 m South of center line.	MSL	1288.89 ft 392.854 m
24.00 ft	7.315 m SE of PP.		
20.60 ft	6.279 m ESE of back of curb, south end return.		
DLK 8-93			
<b>Glenn and May</b>			
COW Bench Mark.	SW corner of intersection.	City	103.58 ft 31.571 m
23.00 ft	7.010 m South of center line.		
33.00 ft	10.058 m West of center line.	MSL	1290.98 ft 393.491 m
7.30 ft	2.225 m South of back of curb.		
17.00 ft	5.182 m North of 4' high ( 1.22 m ) chain link fence corner.		
DLK 7-94			
<b>Glenn and Orient Blvd.</b>			
COW Bench Mark.	North parking of Orient Blvd. On center line of Glenn extended.	City	107.32 ft 32.711 m
6.50 ft	1.981 m North of back of curb, @ right angles.		
22.00 ft	6.706 m North of center line of Orient Blvd.	MSL	1294.72 ft 394.631 m
44.00 ft	13.411 m NNW of center of street light pole.		
29.20 ft	8.900 m NNE of iron on center line of both.		
DLK 7-94			



Glenn and McCormick					
	Brass rod in concrete post on northwest corner. Under water meter cover.	City	106.48 ft	32.456 m	
3.50 ft	1.067 m East of walk west.				
4.50 ft	1.372 m South of side crossing.	MSL	1293.88 ft	394.375 m	
8.00 ft	2.438 m South of center line of Glenn and north property line of McCormick.				
32.00 ft	9.754 m West of center line of Glenn and north property line of McCormick.				
HAM adjusted 1933					
Glenn and Maple					
	Brass rod in concrete post on southwest corner of intersection.	City	109.14 ft	33.266 m	
28.00 ft	8.534 m West of south property line of Maple and center line of Glenn.	MSL	1296.54 ft	395.185 m	
12.00 ft	3.658 m North of south property line of Maple and center line of Glenn.				
23.00 ft	7.010 m South of center line of Maple.				
3.30 ft	1.006 m North of north face of walk.				
Glenn and 2nd St. North					
	COW Bench Mark. SW corner of intersection. North side of concrete base for railroad crossing light.	City	115.38 ft	35.168 m	
89.00 ft	27.127 m West of center line.	MSL	1302.78 ft	397.087 m	
18.70 ft	5.700 m South of center line.				
10.70 ft	3.261 m West of center of fire hydrant.				
DLK 7-94					
Amidon and Murdock					
	COW Bench Mark. NW corner of intersection. In concrete base for ornamental street light post.	City	0.00 ft	0.000 m	
32.00 ft	9.754 m West of center line.	MSL	1187.40 ft	361.920 m	
69.00 ft	21.031 m North of center line.				
10.30 ft	3.139 m West of back of curb.				
Amidon and 13th St. North					
	USGS Standard Disc, stamped 'TT29 WB1939'.	City	124.85 ft	38.054 m	
10.00 ft	3.048 m South of sidewalk.				
25.00 ft	7.620 m East of southeast end of Big Arkansas River bridge handrail	MSL	1312.25 ft	399.974 m	
RBM 1957					
* Amidon and bridge over Arkansas River					
	COW Bench Mark. Southeast corner of bridge. Built in 1964.	City	128.01 ft	39.017 m	
		MSL	1315.41 ft	400.937 m	
* Amidon and bridge over Arkansas River					
	COW Bench Mark. Northwest corner of bridge, top of hubguard. Built in 1964.	City	129.49 ft	39.469 m	
		MSL	1316.89 ft	401.388 m	
* Amidon and bridge over Arkansas River					
	COW Bench Mark. Northwest corner of bridge.	City	0.00 ft	0.000 m	
1.00 ft	0.305 m East of west end of bridge.				
1.00 ft	0.305 m South of handrail.	MSL	1187.40 ft	361.920 m	
* Same bridge					
Amidon and 21st St. North					
	COW Bench Mark. SW corner of intersection.	City	127.89 ft	38.980 m	
3.00 ft	0.914 m South of back of walk west.				
7.00 ft	2.134 m East of back of walk south.	MSL	1315.29 ft	400.899 m	
9.30 ft	2.835 m South of walk light.				
2.00 ft	0.610 m East of face of walk.				
JFG 1973					
Amidon and 25th St. North					
	COW Bench Mark.	City	126.34 ft	38.508 m	
44.50 ft	13.564 m West of center line.				
3.80 ft	1.158 m South of center line	MSL	1313.74 ft	400.428 m	
IH 1957					
Amidon and 29th St. North					
	COW Bench Mark. SW corner of intersection.	City	127.22 ft	38.778 m	
44.50 ft	13.564 m South of center line.				
40.80 ft	12.436 m West of center line.	MSL	1314.62 ft	400.697 m	
IH 1957					
Amidon and 33rd St. North					
	COW Bench Mark. In cast iron box.	City	131.36 ft	40.038 m	
42.00 ft	12.802 m East of center line of Amidon extended.				
34.00 ft	10.363 m North of center line of 33rd St. North.	MSL	1318.76 ft	401.958 m	
3.40 ft	1.036 m North of north face of walk running E/W.				
48.50 ft	14.783 m East of east face of walk running N/S.				
22.50 ft	6.858 m NE of center of fire hydrant.				
4.50 ft	1.372 m SW of evergreen tree.				
RBM 1957					
Amidon and Valley Center Floodway					
	COW Bench Mark. Approximately located at 35th St. North. SE corner of bridge, south end of metal guard rail. Built in 1983.	City	146.43 ft	44.632 m	
	DLK 2-94	MSL	1333.83 ft	406.551 m	
<b>Line 16-A: Little Arkansas River</b>			<b>Line 16-A: Little Arkansas River</b>		
	Little Arkansas River and 21st St. North				
	COW Bench Mark. NE corner of bridge.	City	126.31 ft	38.499 m	
		MSL	1313.71 ft	400.419 m	
Little Arkansas River and 25th St. North					
	COW Bench Mark. SE corner of bridge.	City	125.90 ft	38.374 m	
		MSL	1313.30 ft	400.294 m	

Little Arkansas River and 29th St. North					
	COW Bench Mark. SE corner of bridge. Top of hubguard. Built in 1992.	City	131.86 ft	40.191 m	
	DLK 7-93				
		MSL	1319.26 ft	402.110 m	
Little River and 53rd St. North					
	COW Bench Mark. NE corner of bridge on walk section.	City	145.59 ft	44.376 m	
	300.00 ft 91.440 m +/- east of Porter				
	394.00 ft 120.091 m West of center line of Sullivan.	MSL	1332.99 ft	406.295 m	
	26.30 ft 8.016 m North of center line of 53rd St. North				
	DLK 7-94				
<b>Line 17: Seneca</b>		<b>Line 17: Seneca</b>			
Seneca and 55th St. South					
	COW Bench Mark. NW corner of intersection. SE corner of traffic signal light base.	City	83.56 ft	25.469 m	
	66.00 ft 20.117 m West of center line.	MSL	1270.96 ft	387.389 m	
	49.40 ft 15.057 m North of center line.				
	86.03 ft 26.222 m NW of section corner iron.				
	DLK 5-94				
Seneca and 51st St. South					
	COW Bench Mark. SE corner of intersection.	City	83.30 ft	25.390 m	
	32.50 ft 9.906 m South of center line.	MSL	1270.70 ft	387.309 m	
	0.00 ft 0.000 m East of center line.				
	11.00 ft 3.353 m West of west face of walk.				
Seneca and 47th St. South					
	COW Bench Mark. NE corner of intersection.	City	87.34 ft	26.621 m	
	74.00 ft 22.555 m North of center line.	MSL	1274.74 ft	388.541 m	
	44.00 ft 13.411 m East of center line.				
Seneca and Vilma					
	COW Bench Mark. SW corner of intersection. 4300 block of south Seneca.	City	87.62 ft	26.707 m	
	20.10 ft 6.126 m South of center line.	MSL	1275.02 ft	388.626 m	
	67.60 ft 20.604 m West of center line.				
	4.50 ft 1.372 m South of back of curb.				
	61.70 ft 18.806 m SW of power pole.				
	4.50 ft 1.372 m West of west face of SWS inlet.				
	17.50 ft 5.334 m West of west face of sidewalk running N/S.				
Seneca and MacArthur					
	COW Bench Mark. On 2 ft. ( 0.610 m ) square concrete base. SW corner of KGE tower.	City	91.99 ft	28.039 m	
	176.00 ft 53.645 m West of center line.	MSL	1279.39 ft	389.958 m	
	53.00 ft 16.154 m North of center line.				
	20.70 ft 6.309 m North of north back of curb on MacArthur.				
	DLK 7-93				
Seneca and MacArthur					
	COW Bench Mark. Just East of Seneca. SE Corner of RCBC over Riverside Drainage Ditch.	City	92.12 ft	28.078 m	
		MSL	1279.52 ft	389.998 m	
Seneca and 35th St. South.					
	COW Bench Mark. NW corner of intersection.	City	92.53 ft	28.203 m	
	6.00 ft 1.829 m South of northwest corner.	MSL	1279.93 ft	390.123 m	
	3.00 ft 0.914 m West of northwest corner.				
	9.00 ft 2.743 m North of back of curb.				
	7.00 ft 2.134 m SE of 4 ft ( 1.219 m ) high chain link fence corner.				
	24.50 ft 7.468 m North of center line.				
	53.40 ft 16.276 m West of center line.				
	13.00 ft 3.962 m NW of fire hydrant				
	JFG 1973 ck 7-93				
Seneca and 35th St. South					
	COW Bench Mark. SW corner of intersection.	City	92.26 ft	28.121 m	
	25.00 ft 7.620 m South of center line.	MSL	1279.66 ft	390.040 m	
	45.00 ft 13.716 m West of center line.				
	ck 7-93				
Seneca and 31st St. South					
	COW Bench Mark. NE corner of intersection. SW corner of traffic signal light base.	City	95.82 ft	29.206 m	
	34.90 ft 10.638 m East of "x" cut in median nose north of intersection.	MSL	1283.22 ft	391.125 m	
	64.70 ft 19.721 m North of "x" cut in median nose east of intersection.				
	33.57 ft 10.232 m ENE of NE corner of traffic signal control.				
	DLK 5-94				
Seneca and 27th St. South					
	COW Bench Mark. SW corner of intersection. NE corner of concrete base for school crossing light.	City	98.20 ft	29.931 m	
	171.33 ft 52.221 m South of center of 27th St. South.	MSL	1285.60 ft	391.851 m	
	26.71 ft 8.141 m West of center line of Seneca St.				
	83.00 ft 25.298 m SW of SW corner of bottom step on east side of building located at 2801 S. Seneca.				
	DLK 5-94				
Seneca and Pawnee					
	COW Bench Mark. SW corner of intersection. Located on traffic control base.	City	104.76 ft	31.931 m	
	DLK 8-93	MSL	1292.16 ft	393.850 m	
Seneca and May					
	COW Bench Mark. SW corner of intersection.	City	101.27 ft	30.867 m	
	23.50 ft 7.163 m South of center line.	MSL	1288.67 ft	392.787 m	
	77.20 ft 23.531 m West of center line.				
	7.80 ft 2.377 m South of back of curb.				
	12.50 ft 3.810 m North of north face of side walk.				
	11.00 ft 3.353 m NW of center of PP.				
	48.50 ft 14.783 m WNW of center of HLP.				
	DLK 7-94				

Seneca and Harry					
	COW Bench Mark. NW corner of intersection.	City	103.06 ft	31.413 m	
	36.70 ft 11.186 m West of center line.				
	20.40 ft 6.218 m North of center line.	MSL	1290.46 ft	393.332 m	
	DLK 7-94 Rev 7-94 DLK				
Seneca and McCormick					
	Brass rod in concrete post. NW corner of intersection.	City	107.22 ft	32.681 m	
	32.00 ft 9.754 m North of center line.				
	27.30 ft 8.321 m West of center line.	MSL	1294.62 ft	394.600 m	
Mary's Drive and McCormick, 1 block west of Seneca					
	COW Bench Mark. SE corner of intersection.	City	108.93 ft	33.202 m	
	18.70 ft 5.700 m East of center line.				
	53.80 ft 16.398 m South of center line.	MSL	1296.33 ft	395.121 m	
	47.00 ft 14.326 m West of west face of parking lot.				
	240.00 ft 73.152 m West of center line of Seneca.				
	0.00 ft 0.000 m East of back of curb.				
Seneca and Kellogg					
	COW Bench Mark. SE corner of traffic signal light base.	City	108.82 ft	33.168 m	
	217.60 ft 66.324 m South of center line of Kellogg.				
	21.30 ft 6.492 m West of center line of south bound Seneca.	MSL	1296.22 ft	395.088 m	
	DLK 6-94				
Seneca and Maple					
	COW Bench Mark. SW corner of intersection.	City	109.78 ft	33.460 m	
	32.60 ft 9.936 m South of center line.				
	39.00 ft 11.887 m West of center line.	MSL	1297.18 ft	395.380 m	
	JFG 1971				
Seneca and Douglas					
	COW Bench Mark. NW corner of intersection. SW corner of traffic signal light base.	City	112.89 ft	34.409 m	
	41.50 ft 12.649 m North of center line.	MSL	1300.29 ft	396.328 m	
	45.70 ft 13.929 m West of center line.				
	60.59 ft 18.468 m NW of 1/2" iron in center line of both.				
	DLK 6-94				
Seneca and 2nd St.					
	COW Bench Mark. NW corner of intersection. Located on traffic signal light base.	City	110.48 ft	33.674 m	
	32.70 ft 9.967 m North of center line.	MSL	1297.88 ft	395.594 m	
	45.90 ft 13.990 m West of center line.				
	57.96 ft 17.666 m NW of 1/4 section corner iron.				
	DLK 6-94				
Seneca and McLean					
	COW Bench Mark. NE corner of intersection. Located on southeast corner of concrete traffic signal light base.	City	114.73 ft	34.970 m	
	DLK 6-94	MSL	1302.13 ft	396.889 m	
Seneca and Central					
	COW Bench Mark. SW corner of bridge over Little Arkansas River on Central, just east of Stackman Drive.	City	117.59 ft	35.841 m	
	DLK 6-94	MSL	1304.99 ft	397.761 m	
Buffum and Franklin					
	Brass rod in concrete post. NW corner of intersection.	City	115.61 ft	35.238 m	
	27.00 ft 8.230 m West of center line.				
	22.50 ft 6.858 m North of center line.	MSL	1303.01 ft	397.157 m	
Payne and 13th St. North					
	COW Bench Mark. NW corner of intersection.	City	0.00 ft	0.000 m	
	27.80 ft 8.473 m West of center line.				
	38.90 ft 11.857 m North of center line.	MSL	1187.40 ft	361.920 m	
	6.50 ft 1.981 m North of concrete street light pole.				
	16.00 ft 4.877 m South of south face of side walk.				
	16.30 ft 4.968 m SSW of center of FH.				
Payne and 18th St. North					
	COW Bench Mark. Concrete base of flashing school light. South side of 18th St. north.	City	122.66 ft	37.387 m	
	100.00 ft 30.480 m +/- east of Payne.	MSL	1310.06 ft	399.306 m	
	DLK 6-94				
Hood and 29th St. North					
	COW Bench Mark. NE corner of intersection. (Buried 12" deep)	City	125.91 ft	38.377 m	
	47.20 ft 14.387 m North of center line.				
	41.00 ft 12.497 m East of center line.	MSL	1313.31 ft	400.297 m	
	JFG 1971				
Salina and 33rd St. North					
	COW Bench Mark. SW corner of intersection. (Buried 6" deep)	City	130.43 ft	39.755 m	
	11.00 ft 3.353 m South of center line.				
	17.50 ft 5.334 m West of center line.	MSL	1317.83 ft	401.675 m	
	JFG 1971				
Big Ditch and 37th St. North					
	COW Bench Mark. Top of concrete wing wall on southeast corner of bridge over Big Ditch at 37th St. North.	City	144.74 ft	44.116 m	
	400.00 ft 121.920 m +/- east of Seneca St.	MSL	1332.14 ft	406.035 m	
	JFG 1971				
Seneca and 4000 block north					
	COW Bench Mark. SE corner of bridge over I-235 Highway.	City	159.49 ft	48.613 m	
	DLK 7-94	MSL	1346.89 ft	410.532 m	

Seneca and 46th St. North					
COW Bench Mark.	East side of concrete headwall. South side of 46th St. N.	City	136.48 ft	41.599 m	
	40.00 ft 12.192 m +/- west of Seneca.				
	57.50 ft 17.526 m SW of intersection.	MSL	1323.88 ft	403.519 m	
DLK 7-94					
Seneca and 53rd St. North					
COW Bench Mark.	SW corner of intersection. NE corner of traffic signal light base.	City	144.08 ft	43.916 m	
	45.77 ft 13.951 m SW of section corner iron.	MSL	1331.48 ft	405.835 m	
	29.70 ft 9.053 m West of center line.				
	35.60 ft 10.851 m South of center line.				
DLK 7-94					
<b>Line 17-A:</b>		<b>Line 17-A:</b>			
McLean and Douglas					
COW Bench Mark.	NE corner of intersection.	City	115.23 ft	35.122 m	
	26.10 ft 7.955 m East of center line.				
	159.00 ft 48.463 m North of center line.	MSL	1302.63 ft	397.042 m	
DLK 2-94					
Sycamore and Taft					
COW Bench Mark.	NE corner of intersection. West side of concrete base for combination street light and traffic light pole.	City	110.38 ft	33.644 m	
		MSL	1297.78 ft	395.563 m	
Sycamore and Maple					
Brass rod in concrete post.	SW corner of intersection.	City	110.73 ft	33.751 m	
	24.00 ft 7.315 m South of center line.				
	24.00 ft 7.315 m West of center line.	MSL	1298.13 ft	395.670 m	
	5.00 ft 1.524 m NE of center of traffic signal pole.				
Little Arkansas River and Greiffenstein Bridge					
COW Bench Mark.	NW corner of bridge. (Nims at West River Boulevard)	City	118.58 ft	36.143 m	
		MSL	1305.98 ft	398.063 m	
Bitting St. Bridge, south of 13th St. North					
COW Bench Mark.	NE corner of bridge, top of corral rail. South of Shadyway.	City	124.44 ft	37.929 m	
	300.00 ft 91.440 m +/- south of 13th St.	MSL	1311.84 ft	399.849 m	
DLK 7-94					
<b>Line 18: Gold / Arkansas</b>		<b>Line 18: Gold / Arkansas</b>			
Gold and 55th St. South					
COW Bench Mark.		City	81.36 ft	24.799 m	
	45.00 ft 13.716 m West of 1/4 section corner iron.				
	48.00 ft 14.630 m North of 1/4 section corner iron.	MSL	1268.76 ft	386.719 m	
	44.50 ft 13.564 m North of center line of 55th St. South.				
	65.40 ft 19.934 m NW of 1/4 section corner iron.				
	126.50 ft 38.557 m West of center line of Palisade.				
	54.50 ft 16.612 m WNW of center of PP.				
Gold and 51st St. South					
COW Bench Mark.	NE corner of intersection.	City	84.37 ft	25.716 m	
	16.50 ft 5.029 m North of center line of 51st St. South.				
	61.00 ft 18.593 m ESE of power pole.	MSL	1271.77 ft	387.635 m	
Gold and 47th St. South					
COW Bench Mark.		City	86.85 ft	26.473 m	
	128.00 ft 39.014 m West of 1/4 section corner.				
	35.00 ft 10.668 m North of 1/4 section corner.	MSL	1274.25 ft	388.392 m	
1/4 section corner being:					
	6.00 ft 1.829 m East of east face of house #502.				
	2.50 ft 0.762 m South of south curb of access road.				
Gold and 43rd St. South					
COW Bench Mark.		City	86.59 ft	26.392 m	
	37.30 ft 11.369 m South of center line.				
	32.00 ft 9.754 m West of center line.	MSL	1273.99 ft	388.312 m	
Gold and MacArthur					
COW Bench Mark.		City	89.80 ft	27.371 m	
	89.80 ft 27.371 m West of center line of Gold north.				
	38.60 ft 11.765 m North of center line of MacArthur.	MSL	1277.20 ft	389.291 m	
	123.41 ft 37.615 m NW of 1/4 section corner iron.				
	112.59 ft 34.317 m WNW of center of MacArthur and Gold St. south. (iron in thimble).				
	2.00 ft 0.610 m West of light pole.				
	5.40 ft 1.646 m North of back of walk.				
	29.50 ft 8.992 m East of center line of drive at 516 W. MacArthur.				
JFG 1973					
Gold and 35th St. South					
COW Bench Mark.		City	94.88 ft	28.918 m	
	41.00 ft 12.497 m West of center line of Gold north.				
	24.00 ft 7.315 m North of center of pavement on 35th St. South.	MSL	1282.28 ft	390.838 m	
JFG 1971					
Gold and 31st St. South					
COW Bench Mark.	SW corner of intersection.	City	95.17 ft	29.008 m	
	43.70 ft 13.320 m South of center line.				
	32.00 ft 9.754 m West of center line.	MSL	1282.57 ft	390.927 m	
DLK					
* Arkansas River and Pawnee					
COW Bench Mark.	NE corner of bridge.	City	104.62 ft	31.888 m	
	Revised 8-93	MSL	1292.02 ft	393.808 m	

* Arkansas River and Pawnee COW Bench Mark. SW corner of bridge on hubguard. DLK 8-93	City	104.87 ft	31.964 m
* Same Bridge	MSL	1292.27 ft	393.884 m
Gold and Mt. Vernon COW Bench Mark. SE corner of intersection.	City	0.00 ft	0.000 m
2.10 ft 0.640 m South of back of curb.			
17.70 ft 5.395 m South of center line.	MSL	1187.40 ft	361.920 m
40.50 ft 12.344 m East of center line.			
44.20 ft 13.472 m SE of iron in center line of both.			
10.70 ft 3.261 m East of face of walk.			
Arkansas River and Harry COW Bench Mark. SW corner of bridge.	City	108.54 ft	33.083 m
	MSL	1295.94 ft	395.003 m
Gold and Harry COW Bench Mark.	City	104.97 ft	31.993 m
6.00 ft 1.829 m West of southeast corner.			
10.00 ft 3.048 m South of southeast corner.	MSL	1292.37 ft	393.913 m
RBM 1956			
Arkansas River and Lincoln COW Bench Mark. SW corner of bridge. Revised DLK 7-94	City	108.90 ft	33.193 m
	MSL	1296.30 ft	395.112 m
* Arkansas River and Maple COW Bench Mark. SW corner of bridge.	City	112.12 ft	34.174 m
	MSL	1299.52 ft	396.094 m
* Arkansas River and Lewis COW Bench Mark. NE corner of bridge on sidewalk.	City	112.68 ft	34.345 m
	MSL	1300.08 ft	396.264 m
* Same Bridge			
Arkansas River and Douglas USGS Gaging Station. SE corner of bridge.	City	115.89 ft	35.323 m
	MSL	1303.29 ft	397.243 m
Little Arkansas River and Murdock Brass cap on walk, NW corner of bridge.	City	118.82 ft	36.216 m
	MSL	1306.22 ft	398.136 m
Little Arkansas River and 13th St. North COW Bench Mark. NE corner of bridge located SW of North High School.	City	123.93 ft	37.774 m
	MSL	1311.33 ft	399.693 m
Arkansas and 17th St. North Brass rod in concrete post. NE corner of intersection.	City	119.05 ft	36.286 m
24.50 ft 7.468 m North of center line of 17th St. going east.			
22.50 ft 6.858 m East of center line of Arkansas.	MSL	1306.45 ft	398.206 m
Revised DLK 6-94			
Little Arkansas River and 18th St. North (Arkansas) COW Bench Mark. SW corner of bridge at west end of handrail. DLK 6-94	City	124.19 ft	37.853 m
	MSL	1311.59 ft	399.773 m
Arkansas and 21st St. North COW Bench Mark. SW corner of intersection.	City	121.64 ft	37.076 m
24.50 ft 7.468 m West of center line.			
75.50 ft 23.012 m South of center line.	MSL	1309.04 ft	398.995 m
1.50 ft 0.457 m East of east face of walk.			
9.50 ft 2.896 m West of back of curb.			
64.00 ft 19.507 m SW of center of fire hydrant.			
DLK 7-94			
Arkansas and 25th St. North COW Bench Mark.	City	127.63 ft	38.901 m
40.00 ft 12.192 m South of center line.			
32.00 ft 9.754 m West of center line.	MSL	1315.03 ft	400.820 m
JFG 1973			
Arkansas and 29th St. North Temporary bench mark. SE corner of intersection. Top of abandoned 12" square concrete base for advertising sign. SE corner of base. DLK 93	City	130.51 ft	39.779 m
	MSL	1317.91 ft	401.699 m
Arkansas and 29th St. North COW Bench Mark. NE corner of intersection.	City	129.41 ft	39.444 m
29.10 ft 8.870 m North of center line.			
80.00 ft 24.384 m East of center line.	MSL	1316.81 ft	401.364 m
85.40 ft 26.030 m ENE of section corner iron.			
4.90 ft 1.494 m North of back of curb.			
4.10 ft 1.250 m South of south face of sidewalk.			
9.00 ft 2.743 m South of face of building # 540.			
DLK 8-94			
Arkansas and 33rd St. North COW Bench Mark.	City	129.81 ft	39.566 m
32.00 ft 9.754 m South of center line of 33rd St. going east.			
22.00 ft 6.706 m East of center line of Arkansas.	MSL	1317.21 ft	401.485 m
JFG 1971			

Arkansas and 35th St. North					
COW Bench Mark.		City	130.21 ft	39.689 m	
42.00 ft	12.802 m				West of center line.
24.00 ft	7.315 m	MSL	1317.61 ft	401.609 m	North of center line.
JFG 1971					
Arkansas and 37th St. North					
COW Bench Mark.		City	132.09 ft	40.261 m	
34.00 ft	10.363 m				East of center line of Arkansas.
2.00 ft	0.610 m	MSL	1319.49 ft	402.180 m	South of south line of 37th St.
8.00 ft	2.438 m				East of east curb.
JFG 1971					
Arkansas and North of 37th St. North					
Brass cap, west face of sidewalk, east side of Arkansas on south side of flood control dike.		City	135.75 ft	41.377 m	
100.00 ft	30.480 m				+/- north of 37th St. North
		MSL	1323.15 ft	403.296 m	
Arkansas and Dale					
Brass cap, west face of walk, east side of Arkansas on north end of flood control structure.		City	135.51 ft	41.303 m	
300.00 ft	91.440 m				North of Dale Street.
		MSL	1322.91 ft	403.223 m	
Arkansas and 46th St. North					
Temporary bench mark. East side of Arkansas at north line of 46th St. Railroad spike in west face of H.L.P.		City	138.06 ft	42.081 m	
		MSL	1325.46 ft	404.000 m	
DLK 7-94					
Arkansas and 46th St. North					
COW Bench Mark. SW corner of intersection.		City	136.90 ft	41.727 m	
31.70 ft	9.662 m				South of center line.
36.50 ft	11.125 m	MSL	1324.30 ft	403.647 m	West of center line.
40.30 ft	12.283 m				North of center of PP.
58.20 ft	17.739 m				SE of break between 6' (1.828 m) chain link fence and 6' (1.828 m) wrought iron fence.
89.50 ft	27.280 m				South of center of PP.
89.50 ft	27.280 m				SW of H.L.P.
DLK 8-94					
Arkansas and 53rd St. North					
Temporary bench mark. Cross cut in top of 1-1/4" bolt. NW corner of concrete base for railroad signal light. South side of 53rd St.		City	145.46 ft	44.336 m	
150.00 ft	45.720 m	MSL	1332.86 ft	406.256 m	+/- east of Arkansas Avenue.
DLK 7-94					
Arkansas and 53rd St. North					
COW Bench Mark. SW corner of bridge over West Branch Chisholm Creek.		City	148.60 ft	45.293 m	
Bench mark under name plate of Bridge built 1957.		MSL	1336.00 ft	407.213 m	
250.00 ft	76.200 m				+/- east of Arkansas.
DLK 8-94					
<b>Line 19: Broadway</b>		<b>Line 19: Broadway</b>			
Broadway and 63rd St. South					
COW Bench Mark. NE corner of intersection. NW corner of concrete base of traffic signal light pole.		City	80.24 ft	24.457 m	
		MSL	1267.64 ft	386.377 m	
DLK 8-94					
Broadway and 59th St. South					
Temporary bench mark. West face of street light pole. East side of Broadway, approximately center line of 59th St. South.		City	79.98 ft	24.378 m	
		MSL	1267.38 ft	386.297 m	
DLK 8-94					
Broadway and 59th St. South					
COW Bench Mark. East side of Broadway.		City	79.81 ft	24.326 m	
38.00 ft	11.582 m				East of center line.
11.70 ft	3.566 m	MSL	1267.21 ft	386.246 m	South of center line.
11.60 ft	3.536 m				East of back of curb.
10.00 ft	3.048 m				South of center of PP.
DLK 8-94					
Broadway and 55th St. South					
COW Bench Mark. NW corner of intersection. NW corner of RCBC, top of hubguard.		City	84.47 ft	25.748 m	
		MSL	1271.87 ft	387.667 m	
Broadway and Custy					
COW Bench Mark. SE corner of intersection. 5100 block of South Broadway.		City	86.82 ft	26.463 m	
47.50 ft	14.478 m				East of center line.
41.00 ft	12.497 m	MSL	1274.22 ft	388.382 m	South of center line.
50.10 ft	15.270 m				SE of 1/4 section corner iron.
20.70 ft	6.309 m				East of back of curb.
29.00 ft	8.839 m				East of section line.
DLK 7-94					
Broadway and 47th St. South					
COW Bench Mark. SW corner of intersection. NE corner of traffic signal pole concrete base.		City	87.44 ft	26.652 m	
48.60 ft	14.813 m	MSL	1274.84 ft	388.571 m	West of center line of Broadway south.
99.50 ft	30.328 m				South of center line of 47th St. west.
DLK 7-93					
Broadway and MacArthur					
Temporary bench mark. SE corner of intersection. Railroad spike in north face of PP.		City	90.48 ft	27.578 m	
		MSL	1277.88 ft	389.498 m	
DLK 6-94					

Broadway and MacArthur							
COW Bench Mark.				City	91.33 ft	27.837 m	
0.00 ft	0.000 m	Center line of MacArthur.					
365.00 ft	111.252 m	East of center line of Broadway.	MSL	1278.73 ft	389.757 m		
5.20 ft	1.585 m	South of back of curb.					
6.50 ft	1.981 m	North of back of curb.					
14.70 ft	4.481 m	West of second street light pole east of Broadway.					
DLK 7-94							
Broadway and I-235 Bypass							
COW Bench Mark.	4300 block south, east side of Broadway.			City	87.84 ft	26.774 m	
54.00 ft	16.459 m	East of center line.					
112.00 ft	34.138 m	South of south face of east bound bridge.	MSL	1275.24 ft	388.693 m		
27.00 ft	8.230 m	East of back of curb.					
7.30 ft	2.225 m	West of 4 ft. (1.219 m) high chain link fence.					
81.00 ft	24.689 m	SSE of center of street light pole.					
41.50 ft	12.649 m	SSE of end of guard rail.					
DLK 7-94							
Broadway and 31st St. South.							
COW Bench Mark.				City	93.30 ft	28.438 m	
43.70 ft	13.320 m	West of center line.					
45.00 ft	13.716 m	North of center line.	MSL	1280.70 ft	390.358 m		
JFG 1971							
Broadway and Carp							
COW Bench Mark.				City	102.88 ft	31.359 m	
32.00 ft	9.754 m	North of center line.					
44.00 ft	13.411 m	West of center line.	MSL	1290.28 ft	393.279 m		
JFG 1973							
Broadway and John Mack Bridge over Arkansas River.							
COW Bench Mark.	SE corner of bridge.			City	102.89 ft	31.361 m	
				MSL	1290.29 ft	393.280 m	
Broadway and Pawnee							
COW Bench Mark.				City	98.40 ft	29.992 m	
52.00 ft	15.850 m	North of center line.					
40.00 ft	12.192 m	West of center line.	MSL	1285.80 ft	391.912 m		
9.80 ft	2.987 m	East of back of walk north.					
12.00 ft	3.658 m	North of back of walk west.					
JFG 1973							
Broadway and Mt. Vernon							
COW Bench Mark.				City	100.81 ft	30.727 m	
146.00 ft	44.501 m	East of center line.					
20.20 ft	6.157 m	North of center line.	MSL	1288.21 ft	392.646 m		
4.70 ft	1.433 m	North of back of curb.					
18.70 ft	5.700 m	East of east line of concrete drive.					
4.50 ft	1.372 m	South of south face of walk.					
DLK 7-94							
Broadway and Harry							
Brass rod in concrete post on southeast corner.				City	104.47 ft	31.842 m	
31.00 ft	9.449 m	South of center line.					
31.50 ft	9.601 m	East of center line.	MSL	1291.87 ft	393.762 m		
Broadway and Lincoln							
COW Bench Mark.	NW corner of intersection. Located on traffic signal light base.			City	107.00 ft	32.614 m	
34.30 ft	10.455 m	West of center line.	MSL	1294.40 ft	394.533 m		
27.40 ft	8.352 m	North of center line.					
DLK 6-94							
Broadway and Lewis							
COW Bench Mark.	NE corner of intersection. Located on traffic signal light base.			City	109.63 ft	33.415 m	
35.70 ft	10.881 m	North of center line.	MSL	1297.03 ft	395.335 m		
33.30 ft	10.150 m	East of center line.					
DLK 6-94							
Broadway and Central							
COW Bench Mark.	NE corner of intersection. Located on a combination traffic signal light and street light pole.	Dosen't tie west to Seneca & Central by 0.24'		City	112.78 ft	34.375 m	
49.60 ft	15.118 m	North of center line.	MSL	1300.18 ft	396.295 m		
31.40 ft	9.571 m	East of center line.					
DLK 2-95							
Broadway and Central							
Temporary bench mark.	SE corner of intersection. NW corner of bottom step of Catholic Diocese of Wichita.			City	113.72 ft	34.662 m	
DLK 11-87 Rev. DLK 2-95				MSL	1301.12 ft	396.581 m	
Broadway and 9th St. North							
Brass rod in concrete post.				City	114.11 ft	34.781 m	
28.00 ft	8.534 m	West of center line of Broadway.					
22.00 ft	6.706 m	South of center line of 9th St. west.	MSL	1301.51 ft	396.700 m		
35.30 ft	10.759 m	SW of iron in center line of Broadway and 9th St.					
1.50 ft	0.457 m	SW radial to curb.					
6.50 ft	1.981 m	North of north face of sidewalk.					
14.00 ft	4.267 m	North of center of street light pole.					
Rev DLK 7-94							

Broadway and 13th St. North					
COW Bench Mark.	SE corner of intersection.		City	116.80 ft	35.601 m
29.50 ft	8.992 m	East of center line.			
110.00 ft	33.528 m	South of center line.	MSL	1304.20 ft	397.520 m
68.00 ft	20.726 m	South of center of fire hydrant.			
2.30 ft	0.701 m	West of west face of sidewalk.			
6.50 ft	1.981 m	East of back of curb.			
20.20 ft	6.157 m	SW of SW corner of bottom concrete step of church.			
DLK 7-94					
Broadway and 17th St. North					
COW Bench Mark.	NE corner of intersection. Located on traffic signal light pole.		City	121.70 ft	37.094 m
21.50 ft	6.553 m	North of center line.	MSL	1309.10 ft	399.014 m
36.20 ft	11.034 m	East of center line.			
DLK 6-94					
Broadway and 21st St. North					
Brass rod in concrete post in north end of traffic island. Northeast corner of intersection.			City	124.52 ft	37.954 m
22.00 ft	6.706 m	East of thimble in intersection.	MSL	1311.92 ft	399.873 m
41.50 ft	12.649 m	North of thimble in intersection.			
Revised 6-94 DLK					
Broadway and 25th St. North					
COW Bench Mark.			City	124.73 ft	38.017 m
10.00 ft	3.048 m	West of west line of sidewalk along Broadway north.			
28.00 ft	8.534 m	South of center of 25th St. west.	MSL	1312.13 ft	399.937 m
30.20 ft	9.205 m	WSW of manhole.			
12.80 ft	3.901 m	SSE of SE corner of inlet.			
JFG 1973					
Broadway and 29th St. North					
COW Bench Mark.			City	127.96 ft	39.002 m
31.70 ft	9.662 m	North of center line.	MSL	1315.36 ft	400.922 m
43.30 ft	13.198 m	West of center line.			
2.20 ft	0.671 m	East of back of sidewalk.			
7.40 ft	2.256 m	North of back of curb.			
JFG 1971					
Broadway and 33rd St. North					
COW Bench Mark.	(No Good Destroyed)		City	130.09 ft	39.652 m
26.40 ft	8.047 m	North of center line.	MSL	1317.49 ft	401.571 m
42.30 ft	12.893 m	West of center line.			
5.10 ft	1.554 m	East of back of sidewalk going north.			
3.80 ft	1.158 m	NNW of back of curb.			
22.70 ft	6.919 m	SSW of SW corner of inlet.			
JFG 1971					
Broadway and 37th St. North					
COW Bench Mark.	NE Corner of intersection		City	135.17 ft	41.200 m
36.00 ft	10.973 m	West of center line.	MSL	1322.57 ft	403.120 m
29.00 ft	8.839 m	North of center line.			
11.40 ft	3.475 m	SSE of concrete PP.			
42.50 ft	12.954 m	SSW of center of traffic signal MH.			
JFG 1971					
Old Lawrence Rd. and Middle Branch Chisholm Creek					
COW Bench Mark.	East of Broadway and approximately 3800 block north. Located in northeast wingwall.		City	144.77 ft	44.126 m
468.80 ft	142.890 m	North of center line of 37th St.	MSL	1332.17 ft	406.045 m
124.90 ft	38.070 m	East of rail.			
42.60 ft	12.984 m	East of east edge of asphalt road.			
<b>Line 19-A</b>			<b>Line 19-A</b>		
Santa Fe and 46th St. South					
COW Bench Mark.	SE corner of RCB.		City	86.12 ft	26.249 m
			MSL	1273.52 ft	388.169 m
Mead and 55th St. South					
COW Bench Mark.	North end of hubguard. NE corner of RCBC on Mead.		City	84.50 ft	25.756 m
75.00 ft	22.860 m	+/- north of center line of 55th St.	MSL	1271.90 ft	387.675 m
DLK 7-94					
St. Francis and 55th St. South					
COW Bench Mark.	North end of hubguard. NE corner of RCBC on St. Francis.		City	85.52 ft	26.066 m
75.00 ft	22.860 m	+/- north of center line of 55th St.	MSL	1272.92 ft	387.986 m
DLK 7-94					
<b>Line 20: Washington</b>			<b>Line 20: Washington</b>		
Washington and 63rd St. South					
COW Bench Mark.	South R/W of 63rd St. East R/W of Turnpike.		City	73.05 ft	22.266 m
65.40 ft	19.934 m	South of center line.	MSL	1260.45 ft	384.185 m
62.00 ft	18.898 m	South of 1/4 section corner iron.			
64.00 ft	19.507 m	SW of center of west pole of double H.L.P.			
3.00 ft	0.914 m	West of NW corner of 6 ft. (1.829 m) high chain link fence.			
53.00 ft	16.154 m	South of south edge of asphalt.			
DLK 8-94					
Washington and 63rd St. South					
Temporary bench mark. Rail road spike in north face of double H.L.P. South side of 63rd St. 0.5 miles (0.810 m) west of Broadway.			City	74.66 ft	22.756 m
50.00 ft	15.240 m	+/- east of 1/4 section corner iron.	MSL	1262.06 ft	384.676 m
DLK 1983 ck 8-94					



Washington and 55th St. South						
COW Bench Mark.	North of 1/4 section corner iron.	City	79.19 ft	24.137 m		
38.00 ft	11.582 m					North of center line of 55th St. South.
86.00 ft	26.213 m	MSL	1266.59 ft	386.057 m		West of west line of Kansas Turnpike R/W.
67.00 ft	20.422 m					North of H.L.P.
45.50 ft	13.868 m					ESE of 6 ft (1.829 m) high cedar fence.
Ida and 47th St. South						
COW Bench Mark.		City	82.53 ft	25.156 m		
2.00 ft	0.610 m					South of NE corner.
6.00 ft	1.829 m	MSL	1269.93 ft	387.076 m		East of NE corner.
						Buried 3 ft. (0.914 m) deep.
Washington and 43rd St. South						
COW Bench Mark.	NE corner of intersection.	City	83.77 ft	25.533 m		
22.00 ft	6.706 m					North of center line.
29.80 ft	9.083 m	MSL	1271.17 ft	387.453 m		East of center line.
11.00 ft	3.353 m					South of 6 ft (1.829 m) high chain link fence.
31.00 ft	9.449 m					East of 6 ft (1.829 m) high wood picket fence.
33.80 ft	10.302 m					East of street light pole.
DLK 2-95						
Washington and MacArthur						
Grader blade in ground.		City	89.52 ft	27.286 m		
30.00 ft	9.144 m					South of 1/4 section corner iron.
1.00 ft	0.305 m	MSL	1276.92 ft	389.205 m		West of 1/4 section corner iron.
gone 5-94						
Washington and MacArthur						
COW Bench Mark.	South R/W.	City	89.60 ft	27.310 m		
15.20 ft	4.633 m					South of back of curb.
28.80 ft	8.778 m	MSL	1277.00 ft	389.230 m		South of section line.
35.90 ft	10.942 m					SW of 1/4 section corner iron.
47.00 ft	14.326 m					South of center line of MacArthur.
21.50 ft	6.553 m					West of 1/2 section line.
DLK 7-94						
Washington and MacArthur						
Temporary bench mark.	East side of drive into 1050 E. MacArthur. SE corner of concrete base for Southwestern Bell junction box.	City	89.99 ft	27.429 m		
60.00 ft	18.288 m	MSL	1277.39 ft	389.348 m		North of 1/4 section corner iron.
35.00 ft	10.668 m					East of 1/4 section corner iron.
50.00 ft	15.240 m					North of center line of MacArthur.
DLK 6-94						
Washington and Galena						
COW Bench Mark.	Top of west curb of Washington at north line of Galena.	City	95.20 ft	29.017 m		
15.20 ft	4.633 m					West of center line of Washington.
31.60 ft	9.632 m	MSL	1282.60 ft	390.936 m		North of north face of sidewalk.
DLK 6-94						
Washington and 31st St. South						
COW Bench Mark.	West side of Washington, approximately center line of 31st St. NW corner of concrete flood control box measuring 6.2' x 7.5' (1.890 m x 2.286 m).	City	96.48 ft	29.407 m		
28.80 ft	8.778 m	MSL	1283.88 ft	391.327 m		West of back of curb.
11.00 ft	3.353 m					East of west face of sidewalk.
DLK 6-94						
Washington and Wassell						
COW Bench Mark.	NE corner of intersection.	City	94.05 ft	28.666 m		
44.50 ft	13.564 m					East of center line.
33.00 ft	10.058 m	MSL	1281.45 ft	390.586 m		North of center line.
18.70 ft	5.700 m					NE of street light pole.
1.70 ft	0.518 m					South of south face of walk.
1.70 ft	0.518 m					West of west face of sidewalk.
40.20 ft	12.253 m					NE of 1/4 section corner iron.
DLK 7-94						
Washington and Pawnee						
Brass rod in concrete post.		City	97.62 ft	29.755 m		
26.00 ft	7.925 m					North of center line.
32.50 ft	9.906 m	MSL	1285.02 ft	391.674 m		East of center line.
Washington and Mt. Vernon						
Brass rod in concrete post.		City	100.35 ft	30.587 m		
34.50 ft	10.516 m					East of center line.
21.00 ft	6.401 m	MSL	1287.75 ft	392.506 m		North of center line.
Rev DLK 2-95 DLK 1976						
Washington and Harry						
COW Bench Mark.	NE corner of intersection.	City	102.69 ft	31.300 m		
25.40 ft	7.742 m					East of center line.
82.30 ft	25.085 m	MSL	1290.09 ft	393.219 m		North of center line.
24.60 ft	7.498 m					North of center of fire hydrant.
1.00 ft	0.305 m					West of west face of sidewalk.
9.80 ft	2.987 m					East of back of curb.
DLK 2-95						
Washington and Harry						
Temporary bench mark.	SW corner of intersection. Railroad spike in east face of street light pole.	City	103.45 ft	31.532 m		
DLK 2-95				MSL	1290.85 ft	393.451 m
Washington and Lincoln						
COW Bench Mark.	Located in median in center line of Washington.	City	105.93 ft	32.287 m		
173.50 ft	52.883 m					South of section corner iron.
168.50 ft	51.359 m	MSL	1293.33 ft	394.207 m		South of center line east.
2.20 ft	0.671 m					East of back of curb.
15.60 ft	4.755 m					East of center line of south bound traffic.
18.00 ft	5.486 m					South of steel power pole.
DLK 7-94						

Washington and Kellogg					
COW Bench Mark.			City	108.50 ft	33.071 m
65.40 ft	19.934 m	East of east back of curb in median.			
1.60 ft	0.488 m	East of east face of walk.	MSL	1295.90 ft	394.990 m
24.70 ft	7.529 m	East of back of curb.			
54.50 ft	16.612 m	SE of SE corner of SWS inlet.			
66.10 ft	20.147 m	South of south face of east bound bridge.			
DLK 8-94					
Washington and 1st St. North					
COW Bench Mark.		NE corner of intersection.	City	108.91 ft	33.196 m
29.30 ft	8.931 m	North of center line.			
83.90 ft	25.573 m	East of center line.	MSL	1296.31 ft	395.115 m
1.00 ft	0.305 m	South of south face of walk.			
6.40 ft	1.951 m	North of back of curb.			
52.20 ft	15.911 m	East of center of street light pole.			
DLK 8-94					
Washington and Central					
COW Bench Mark.		NE corner of intersection.	City	110.99 ft	33.830 m
25.00 ft	7.620 m	East of center line.			
79.10 ft	24.110 m	North of center line.	MSL	1298.39 ft	395.749 m
38.00 ft	11.582 m	North of north line of Central.			
0.60 ft	0.183 m	West of west face of sidewalk.			
4.90 ft	1.494 m	East of back of curb.			
41.00 ft	12.497 m	NNW of traffic light pole.			
DLK 8-94					
Washington and 9th St. North					
Brass rod in concrete post.		SE corner of intersection.	City	112.77 ft	34.372 m
23.00 ft	7.010 m	South of center line.			
37.00 ft	11.278 m	East of center line.	MSL	1300.17 ft	396.292 m
2.50 ft	0.762 m	North of north face of sidewalk.			
2.80 ft	0.853 m	South of curb.			
37.40 ft	11.400 m	East of center line of railroad.			
10.70 ft	3.261 m	SW to NW corner of building.			
Rev DLK 7-94					
Washington and 13th St. North					
COW Bench Mark.		NE corner of intersection. North side of 13th St., east side of railroad tracks on concrete base for railroad signal.	City	116.82 ft	35.607 m
32.80 ft	9.997 m	North of center line of 13th.	MSL	1304.22 ft	397.526 m
26.25 ft	8.001 m	East of east rail of railroad.			
69.62 ft	21.220 m	NE of thimble with no iron.			
DLK 6-94					
Washington and 21st St. North					
COW Bench Mark.		NE corner of base for railroad signal light. North side of 21st St. 1 block east of Mosley.	City	123.52 ft	37.649 m
15.00 ft	4.572 m	+/- east of center of main railroad tracks.	MSL	1310.92 ft	399.568 m
DLK 6-94					
Washington and 26th St. North					
COW Bench Mark.		Top east end of hubguard on NE corner of RCBC on 26th St. Between Mead and Washington.	City	126.72 ft	38.624 m
DLK 5-94			MSL	1314.12 ft	400.544 m
Washington and 29th St. North					
COW Bench Mark.		0.5 miles (0.810 km) east of Broadway. Buried 1.5 ft (0.457 m)	City	126.91 ft	38.683 m
40.00 ft	12.192 m	East of 1/4 section corner iron.	MSL	1314.31 ft	400.603 m
36.00 ft	10.973 m	North of 1/4 section corner iron.			
8.40 ft	2.560 m	NE radially to curb.			
57.00 ft	17.374 m	East of center line of main track of railroad.			
41.20 ft	12.558 m	East of center of PP.			
53.70 ft	16.368 m	NE of 1/4 section corner iron.			
JFG 1972					
Washington and 29th St. North					
Bench mark.		Railroad spike embedded in concrete hubguard. SW corner of RCBC under railroad tracks.	City	128.89 ft	39.286 m
75.00 ft	22.860 m	+/- north of 29th St.	MSL	1316.29 ft	401.205 m
50.00 ft	15.240 m	+/- west of railroad tracks.			
130.00 ft	39.624 m	+/- west of 1/4 section corner iron.			
DLK 5-94					
Washington and 37th St. North					
COW Bench Mark.		South side of 37th St. in concrete base for railroad signal light.	City	137.08 ft	41.782 m
19.60 ft	5.974 m	South of center line of 37th St.	MSL	1324.48 ft	403.702 m
13.60 ft	4.145 m	West of west rail of railroad.			
34.81 ft	10.610 m	SW of 1/2" iron for 1/4 section corner.			
<b>Line 20-A: Wichita Drainage Canal</b>			<b>Line 20-A: Wichita Drainage Canal</b>		
Wichita Drainage Canal and 13th St. North					
COW Bench Mark.		NW corner of south bridge ( I-135 ),	City	121.02 ft	36.887 m
DLK 6-94			MSL	1308.42 ft	398.806 m
Wichita Drainage Canal and 17th St. North					
COW Bench Mark.		SE corner of bridge on top of corral rail.	City	124.42 ft	37.923 m
DLK 6-94			MSL	1311.82 ft	399.843 m
Wichita Drainage Canal and 19th St. North					
COW Bench Mark.		On handrail on SE corner of RCBC ( I-135 ),	City	124.50 ft	37.948 m
150.00 ft	45.720 m	East of Ohio St.	MSL	1311.90 ft	399.867 m

Ohio and 29th St. North					
Bench mark. Railroad spike embedded in concrete hubguard. SW corner of RCBC under Ohio St.	City	129.61 ft	39.505 m		
75.00 ft 22.860 m +/- north of 29th St.	MSL	1317.01 ft	401.425 m		
DLK 5-94					
<b>Line 21: Hydraulic</b>				<b>Line 21: Hydraulic</b>	
Hydraulic and 63rd St. South					
COW Bench Mark.	City	73.60 ft	22.433 m		
59.00 ft 17.983 m East of center line.					
44.50 ft 13.564 m South of center line.	MSL	1261.00 ft	384.353 m		
10.90 ft 3.322 m SE to center of traffic light pole.					
16.00 ft 4.877 m SW to center of PP.					
DLK 1983					
Hydraulic and 57th St. South					
COW Bench Mark. Center of sidewalk on east side of RCBC.	City	77.73 ft	23.692 m		
200.00 ft 60.960 m +/- south of 57th St.					
DLK 6-94	MSL	1265.13 ft	385.612 m		
Hydraulic and 55th St. South					
COW Bench Mark. NW corner of intersection.	City	76.19 ft	23.223 m		
42.00 ft 12.802 m North of center line.					
40.70 ft 12.405 m West of center line.	MSL	1263.59 ft	385.142 m		
3.70 ft 1.128 m North of center line of PP.					
58.20 ft 17.739 m NW of section corner iron.					
DLK 8-94					
Hydraulic and 55th St. South					
Temporary bench mark. SW corner of intersection. Railroad spike in north face of high line pole.	City	76.33 ft	23.265 m		
29.40 ft 8.961 m South of center line.	MSL	1263.73 ft	385.185 m		
41.20 ft 12.558 m West of center line.					
DLK 6-94					
Hydraulic and 51st St. South					
COW Bench Mark. West side of "T" intersection. Located on concrete base for school crossing light.	City	80.47 ft	24.527 m		
28.30 ft 8.626 m West of center line of Hydraulic.	MSL	1267.87 ft	386.447 m		
DLK 6-94					
Hydraulic and 47th St. South					
COW Bench Mark. SE corner of intersection. Located on traffic signal light base.	City	84.99 ft	25.905 m		
57.50 ft 17.526 m West of center line.	MSL	1272.39 ft	387.824 m		
40.40 ft 12.314 m South of center line.					
DLK 6-94					
Hydraulic and 43rd St. South					
COW Bench Mark. SE corner of intersection.	City	82.13 ft	25.033 m		
25.50 ft 7.772 m East of center line.					
35.00 ft 10.668 m South of center line.	MSL	1269.53 ft	386.953 m		
43.80 ft 13.350 m SE of 1/4 section corner iron.					
33.70 ft 10.272 m SW of HLP.					
9.30 ft 2.835 m West of west face of walk.					
DLK 2-95					
Hydraulic and MacArthur					
COW Bench Mark. SW corner of intersection. Located on traffic signal light base.	City	86.98 ft	26.512 m		
48.60 ft 14.813 m South of center line.	MSL	1274.38 ft	388.431 m		
32.40 ft 9.876 m West of center line.					
DLK 6-94					
Hydraulic and Arkansas River Bridge					
COW Bench Mark. SW corner of bridge, over abutment. Approx. 3700 block south.	City	98.08 ft	29.895 m		
DLK 6-94	MSL	1285.48 ft	391.814 m		
Hydraulic and Fortuna					
COW Bench Mark. East side of concrete base for traffic signal light pole. West side of Hydraulic, between west bound on ramp and Highway I-135.	City	91.50 ft	27.889 m		
DLK 6-94	MSL	1278.90 ft	389.809 m		
Hydraulic and 31st St. South					
COW Bench Mark.	City	90.87 ft	27.697 m		
43.60 ft 13.289 m West of center line.					
32.50 ft 9.906 m North of center line.	MSL	1278.27 ft	389.617 m		
JFG 1971					
Hydraulic and Wassall					
COW Bench Mark. NE corner of intersection. Located on traffic signal light base.	City	93.47 ft	28.490 m		
40.70 ft 12.405 m North of center line.	MSL	1280.87 ft	390.409 m		
39.50 ft 12.040 m East of center line.					
Hydraulic and Wassall					
COW Bench Mark.	City	93.12 ft	28.383 m		
42.00 ft 12.802 m South of center line.					
43.80 ft 13.350 m East of center line.	MSL	1280.52 ft	390.302 m		
Hydraulic and Pawnee					
COW Bench Mark. On railroad crossing sign. East side of Hydraulic, south side of Pawnee.	City	100.45 ft	30.617 m		
31.80 ft 9.693 m South of center of Pawnee.	MSL	1287.85 ft	392.537 m		
33.00 ft 10.058 m West of west railroad tracks.					
DLK 6-94					

Hydraulic and Mt. Vernon							
COW Bench Mark.	NW corner of intersection. Located on traffic signal light base.		City	98.53 ft	30.032 m		
	36.00 ft	10.973 m	MSL	1285.93 ft	391.951 m	South of center line.	
	40.90 ft	12.466 m				East of center line.	
DLK 2-95							
Hydraulic and Harry							
COW Bench Mark.	SE corner of intersection. Located on traffic signal light base.		City	100.26 ft	30.559 m		
	36.10 ft	11.003 m	MSL	1287.66 ft	392.479 m	South of center line.	
	58.50 ft	17.831 m				East of center line.	
DLK 2-95							
Hydraulic and Lincoln							
COW Bench Mark.	NE corner of intersection. Located on traffic signal light base.		City	105.57 ft	32.178 m		
	35.60 ft	10.851 m	MSL	1292.97 ft	394.097 m	East of center line.	
	61.20 ft	18.654 m				North of center line.	
DLK 8-94							
Hydraulic and Douglas							
COW Bench Mark.	SW corner of intersection. NW corner of concrete base for traffic signal light.		City	108.91 ft	33.196 m		
	30.10 ft	9.174 m	MSL	1296.31 ft	395.115 m	West of center line.	
	65.00 ft	19.812 m				South of center line.	
DLK 6-94							
Hydraulic and Orme							
COW Bench Mark.	Center line of Orme extended.		City	105.54 ft	32.169 m		
	43.00 ft	13.106 m	MSL	1292.94 ft	394.088 m	East of center line of Hydraulic.	
	3.10 ft	0.945 m				East of east face of walk.	
	5.90 ft	1.798 m				North of north line of concrete drive.	
	12.10 ft	3.688 m				SE of center of parking lot light pole.	
DLK 8-94							
Hydraulic and Central							
COW Bench Mark.	NE corner of intersection. Located on traffic signal light base.		City	111.70 ft	34.046 m		
	21.40 ft	6.523 m	MSL	1299.10 ft	395.966 m	East of center line.	
	52.30 ft	15.941 m				North of center line.	
DLK 6-94							
Canal Route and 9th St. North							
COW Bench Mark.			City	118.35 ft	36.073 m		
	400.00 ft	121.920 m	MSL	1305.75 ft	397.993 m	+/- east of Highway I-135 concrete base for overhead sign on center line of 9th St.	
DLK 6-94							
Hydraulic and 13th St. North							
COW Bench Mark.	NE corner of intersection. Located on traffic signal light base.		City	115.29 ft	35.140 m		
	23.70 ft	7.224 m	MSL	1302.69 ft	397.060 m	East of center line.	
	34.60 ft	10.546 m				North of center line.	
DLK 6-94							
Hydraulic and 17th St. North							
	Brass rod in concrete post.		City	117.25 ft	35.738 m		
	24.00 ft	7.315 m	MSL	1304.65 ft	397.657 m	East of center line.	
	25.50 ft	7.772 m				North of center line.	
Canal Route and 21st St. North							
COW Bench Mark.	Approximate east line of Hydraulic extended. Located on traffic signal light base. North side of 21st St.		City	123.53 ft	37.652 m		
	150.00 ft	45.720 m	MSL	1310.93 ft	399.571 m	+/- east of Highway I-135.	
DLK 6-94							
Hydraulic and 29th St. North							
COW Bench Mark.			City	134.75 ft	41.070 m		
	2.50 ft	0.762 m	MSL	1322.15 ft	402.990 m	Behind south curb of 29th St. at east end of metal guard rail at bridge to Highway I-135, west.	
JFG 1972							
Hydraulic and K-96 Highway							
COW Bench Mark.	0.5 miles (0.810 km) south of 37th St. North. Located in north R/W of K-96 Highway on concrete base of HLP almost due west of 1/4 section corner iron.		City	134.15 ft	40.889 m		
	250.00 ft	76.200 m	MSL	1321.55 ft	402.808 m	+/- north of center of K-96.	
Hydraulic and 37th St. North							
COW Bench Mark.	SW corner of intersection. Located on concrete base for high line pole.		City	138.33 ft	42.163 m		
	40.50 ft	12.344 m	MSL	1325.73 ft	404.083 m	South of center line.	
	58.70 ft	17.892 m				West of center line.	
<b>Line 21-A: Wichita Drainage Canal</b>							
Wichita Drainage Canal and Douglas							
COW Bench Mark.	SW corner of bridge, top of corral rail.		City	112.87 ft	34.403 m		
	10.00 ft	3.048 m	MSL	1300.27 ft	396.322 m	+/- north of name plate.	
DLK 6-94							
Wichita Drainage Canal and 1st St. North							
COW Bench Mark.	Located on sidewalk on northwest corner of bridge.		City	112.19 ft	34.196 m		
			MSL	1299.59 ft	396.115 m		
Wichita Drainage Canal and Central							
COW Bench Mark.	SE corner of north bridge.		City	115.90 ft	35.326 m		
			MSL	1303.30 ft	397.246 m		

Line 22: Grove		Line 22: Grove	
Grove and 47th St. South (Arkansas River Bridge)			
COW Bench Mark.	SW corner of bridge, top of hubguard.	City	89.63 ft 27.319 m
		MSL	1277.03 ft 389.239 m
Grove and MacArthur (Turnpike Bridge)			
COW Bench Mark.	Top of barrier wall.	City	85.04 ft 25.920 m
34.00 ft	10.363 m +/- north of center line.		
0.80 ft	0.244 m South of chain link fence.	MSL	1272.44 ft 387.840 m
60.00 ft	18.288 m +/- east of turnpike bridge.		
DLK 6-94	South of south face of walk.		
Spruce and Wassall			
COW Bench Mark.	NE corner of intersection.	City	93.76 ft 28.578 m
2.20 ft	0.671 m West of west face of sidewalk.		
8.30 ft	2.530 m East of back of curb.	MSL	1281.16 ft 390.498 m
24.00 ft	7.315 m East of center line.		
53.00 ft	16.154 m North of center line.		
31.00 ft	9.449 m NW of center of fire hydrant.		
48.60 ft	14.813 m SW of SW corner of school building.		
Grove and Pawnee			
COW Bench Mark.	1 block west of Grove. (Approx. east line of Spruce extended). West side of traffic signal light pole concrete base. On center line of Pawnee, at north bound ramp to Highway I-135.	City	96.43 ft 29.392 m
		MSL	1283.83 ft 391.311 m
DLK 6-93			
Grove and Mt. Vernon			
COW Bench Mark.	SE corner of intersection.	City	97.30 ft 29.657 m
12.50 ft	3.810 m East of back of curb.		
28.30 ft	8.626 m East of center line.	MSL	1284.70 ft 391.577 m
57.70 ft	17.587 m South of center line.		
36.00 ft	10.973 m South of back of curb.		
18.30 ft	5.578 m South of south face of sidewalk.		
DLK 2-95			
Green and Harry			
COW Bench Mark.	North side of Harry. SE corner of school crossing light concrete base.	City	101.07 ft 30.806 m
150.00 ft	45.720 m +/- west of Green.	MSL	1288.47 ft 392.726 m
DLK 2-95			
Grove and Lincoln			
COW Bench Mark.	NE corner of intersection. Located on traffic signal light base.	City	105.18 ft 32.059 m
64.80 ft	19.751 m North of center line.	MSL	1292.58 ft 393.978 m
48.30 ft	14.722 m East of center line.		
DLK 7-94			
Grove and Kellogg			
COW Bench Mark.	Located on HLP base on the west side of Grove.	City	107.99 ft 32.915 m
150.00 ft	45.720 m +/- south of Kellogg.	MSL	1295.39 ft 394.835 m
DLK 7-94			
Grove and Douglas			
COW Bench Mark.	NE corner of intersection. Located on traffic signal light pole concrete base.	City	112.02 ft 34.144 m
39.70 ft	12.101 m East of center line.	MSL	1299.42 ft 396.063 m
42.80 ft	13.045 m North of center line.		
DLK 6-94			
Grove and Central			
COW Bench Mark.	SW corner of intersection.	City	116.41 ft 35.482 m
36.00 ft	10.973 m West of center line of median in Grove.		
66.00 ft	20.117 m South of center line of Central.	MSL	1303.81 ft 397.401 m
5.00 ft	1.524 m West of back of curb.		
17.40 ft	5.304 m SSE of center of traffic signal light pole.		
DLK 6-94			
Grove and 9th St. North			
COW Bench Mark.	SE corner of intersection.	City	121.44 ft 37.015 m
40.00 ft	12.192 m South of center line.		
42.00 ft	12.802 m East of center line.	MSL	1308.84 ft 398.934 m
16.00 ft	4.877 m South of back of curb.		
26.40 ft	8.047 m East of back of curb.		
DLK 7-94			
Grove and 13th St. North			
COW Bench Mark.	NE corner of intersection. SW corner of traffic signal light pole concrete base.	City	120.19 ft 36.634 m
22.60 ft	6.888 m East of center line.	MSL	1307.59 ft 398.553 m
53.30 ft	16.246 m North of center line.		
Grove and 17th St. North			
COW Bench Mark.		City	124.56 ft 37.966 m
24.00 ft	7.315 m East of center line.		
44.00 ft	13.411 m North of center line.	MSL	1311.96 ft 399.885 m
Grove and 21st St. North			
COW Bench Mark.	SW corner of intersection.	City	132.20 ft 40.295 m
41.08 ft	12.521 m South of section line on 21st St.		
117.26 ft	35.741 m West of center line of Grove.	MSL	1319.60 ft 402.214 m
124.25 ft	37.871 m ENE to 1/4 section corner iron.		
3.90 ft	1.189 m South to north face of sidewalk.		
10.50 ft	3.200 m North to back of curb.		
37.20 ft	11.339 m East to center of PP.		
DLK 7-93			

Grove and 25th St. North						
COW Bench Mark. SE corner of intersection.				City	141.65 ft	43.175 m
41.00 ft	12.497 m	South of center line.				
21.50 ft	6.553 m	East of center line.		MSL	1329.05 ft	405.094 m
1.50 ft	0.457 m	East of back of curb.				
9.60 ft	2.926 m	SSW of face of street light pole.				
11.70 ft	3.566 m	North of center of fire hydrant.				
CHM						
Grove and 27th St. North						
COW Bench Mark. West parking of Grove. Approx. center line of 27th St.				City	155.33 ft	47.345 m
31.00 ft	9.449 m	West of center line of Grove.				
28.30 ft	8.626 m	SW of SW corner of concrete vault for water meter.		MSL	1342.73 ft	409.264 m
10.00 ft	3.048 m	West of back of curb.				
DLK 7-94						
Grove and 33rd St. North						
Box cut on SE corner of square metal base to large metal HLP at Grove and 33rd St., west side of Grove on center line of 33rd St.				City	144.24 ft	43.965 m
JFG 1972				MSL	1331.64 ft	405.885 m
Grove and 37th St. North						
COW Bench Mark.				City	163.84 ft	49.939 m
64.00 ft	19.507 m	North of 1/4 section corner iron on centerline of 37th St.		MSL	1351.24 ft	411.858 m
51.00 ft	15.545 m	NE of 6 ft (1.827 m) high chain link fence corner.				
28.70 ft	8.748 m	East of center line of railroad tracks measured at a right angle				
2.50 ft	0.762 m	SW of SE corner of 4 inch (10.16 cm) pipe guard rail.				
JFG 1972						
<b>Line 22-A: Arkansas River Bridge</b>				<b>Line 22-A: Arkansas River Bridge</b>		
Arkansas River Bridge and 63rd St. South (IN CONFLICT WITH GUARD RAIL)						
COW Bench Mark. NW corner of bridge, south end of wing wall. Bridge built in 1979. Stamped 1267.55.				City	0.00 ft	0.000 m
500.00 ft	152.400 m	+/- east of Grove.		MSL	1187.40 ft	361.920 m
Arkansas River Bridge and 63rd St. South (IN CONFLICT WITH GUARD RAIL)						
COW Bench Mark. NE corner of bridge, south end of wing wall. Bridge built in 1979. Stamped 1267.48				City	0.00 ft	0.000 m
700.00 ft	213.360 m	+/- east of Grove.		MSL	1187.40 ft	361.920 m
Arkansas River Bridge and 63rd St. South						
COW Bench Mark. SW corner of bridge, top of hubguard.				City	82.55 ft	25.161 m
500.00 ft	152.400 m	+/- east of Grove.		MSL	1269.95 ft	387.081 m
<b>Line 23: Hillside</b>				<b>Line 23: Hillside</b>		
Cederdale and 47th St. South						
COW Bench Mark. South side of 47th St., 100' +/- east of Cederdale.				City	81.08 ft	24.713 m
NW corner of concrete base for school crossing light.						
12.10 ft	3.688 m	East of east face of wheelchair ramp.		MSL	1268.48 ft	386.633 m
4.30 ft	1.311 m	North of back of curb.				
25.20 ft	7.681 m	South of centerline of 47th St.				
Arkansas River and MacArthur						
COW Bench Mark. Southwest corner of the north bridge, located between K-15 and the Turnpike, on the wingwall.				City	94.52 ft	28.810 m
4.00 ft	1.219 m	North of centerline of MacArthur.		MSL	1281.92 ft	390.729 m
Hillside and 31st St. South						
				City	0.00 ft	0.000 m
				MSL	1187.40 ft	361.920 m
Hillside and Wassall						
COW Bench Mark. Located on northeast corner of concrete RCB at Hillside and Wassall.				City	104.50 ft	31.851 m
JFG 1971				MSL	1291.90 ft	393.771 m
Hillside and Glen Oaks						
COW Bench Mark. Northeast corner of RCBC on wingwall.				City	104.19 ft	31.757 m
100.00 ft	30.480 m	+/- south of Glenn Oaks.				
700.00 ft	213.360 m	+/- south of Pawnee.		MSL	1291.59 ft	393.677 m
Rev DLK 3-95						
Hillside and Pawnee						
				City	0.00 ft	0.000 m
				MSL	1187.40 ft	361.920 m
Hillside and Mt. Vernon <b>Benchmark has been transfer see below</b>						
COW Bench Mark. Southeast corner of intersection on the northeast corner of the traffic signal light pole concrete base.				City	100.97 ft	30.776 m
32.80 ft	9.997 m	East of centerline.		MSL	1288.37 ft	392.695 m
32.50 ft	9.906 m	South of centerline.				
DLK 6-94						
Hillside and Mt. Vernon						
Bench Mark. Southwest corner of intersection square cut in concrete on Northeast corner of Signal Pole base				City	100.80 ft	
	ft	0.000 m		MSL	1288.20 ft	
	ft	0.000 m				
AH 1-02						
Hillside and Harry						
COW Bench Mark. Southwest corner of intersection on the southeast corner of the traffic signal light concrete base.				City	127.18 ft	38.764 m
57.40 ft	17.496 m	South of centerline.		MSL	1314.58 ft	400.684 m
38.40 ft	11.704 m	West of centerline.				
DLK 6-94						

Hillside and Lincoln			
COW Bench Mark.	Southwest corner of intersection.	City	107.43 ft 32.745 m
44.60 ft	13.594 m South of centerline.		
60.00 ft	18.288 m West of centerline.	MSL	1294.83 ft 394.664 m
4.50 ft	1.372 m South of south face of sidewalk running E-W.		
21.50 ft	6.553 m West of west face of sidewalk running N-S.		
22.00 ft	6.706 m Southwest of traffic light pole.		
DLK 7-94			
Hillside and Orme			
COW Bench Mark.	Northeast corner of intersection that is south of Kellogg.	City	110.80 ft 33.772 m
Located on the concrete base for school crossing light.			
15.20 ft	4.633 m North of exit ramp from Kellogg.	MSL	1298.20 ft 395.691 m
19.50 ft	5.944 m East of centerline of north bound Hillside.		
DLK 7-94			
Hillside and Douglas			
COW Bench Mark.	Northwest corner of intersection on traffic signal light base.	City	126.98 ft 38.704 m
29.70 ft	9.053 m West of centerline.		
36.10 ft	11.003 m North of centerline.	MSL	1314.38 ft 400.623 m
DLK 6-94			
Hillside and Central			
COW Bench Mark.	Southeast corner of intersection on the southeast corner of the light tower concrete base.	City	145.32 ft 44.294 m
43.80 ft	13.350 m South of centerline.	MSL	1332.72 ft 406.213 m
46.90 ft	14.295 m East of centerline.		
DLK 6-94			
Hillside and 9th St. North			
COW Bench Mark.	Northeast corner of intersection on the wingwall located on the northeast corner of the RCBC.	City	147.48 ft 44.952 m
47.29 ft	14.414 m Northeast of 1/2" iron in centerline of both streets.	MSL	1334.88 ft 406.871 m
47.70 ft	14.539 m North of centerline.		
49.80 ft	15.179 m East of centerline.		
DLK 6-94			
Hillside and 13th St. North			
COW Bench Mark.	Northwest corner of intersection on the southeast corner of the traffic signal light base.	City	169.17 ft 51.563 m
79.08 ft	24.104 m Northwest of 1/2" rebar in centerline of both streets.	MSL	1356.57 ft 413.483 m
63.10 ft	19.233 m West of centerline.		
36.60 ft	11.156 m North of centerline.		
DLK 6-94			
Hillside and 17th St. North			
COW Bench Mark.	Southwest corner of intersection.	City	177.68 ft 54.157 m
32.00 ft	9.754 m West of centerline.		
44.00 ft	13.411 m South of centerline.	MSL	1365.08 ft 416.077 m
JFG 1972			
Hillside and 21st St. North			
Temporary bench mark.	Southeast corner of intersection. Chisled 'box' cut on top of curb on the northwest corner of WSU parking lot.	City	170.93 ft 52.099 m
13.00 ft	3.962 m +/- east northeast of power pole.	MSL	1358.33 ft 414.019 m
28.00 ft	8.534 m +/- west southwest of WSU electric sign board.		
DLK 8-93			
Hillside and 21st St. North			
COW Bench Mark.	Northwest corner of intersection on the traffic signal light base.	City	171.48 ft 52.267 m
43.40 ft	13.228 m North of centerline.	MSL	1358.88 ft 414.187 m
60.40 ft	18.410 m West of centerline.		
73.80 ft	22.494 m Northwest of section corner.		
DLK 2-94			
Hillside and 25th St. North			
COW Bench Mark.	Southeast corner of intersection.	City	179.30 ft 54.651 m
26.70 ft	8.138 m East of quarter-section corner.		
28.00 ft	8.534 m South of quarter-section corner.	MSL	1366.70 ft 416.570 m
3.50 ft	1.067 m West of 6' tall chain link fence.		
2.00 ft	0.610 m East of back of curb.		
Hillside and 29th St. North			
COW Bench Mark.	Southwest corner of RCB on the top, south end of the hubguard	City	155.82 ft 47.494 m
401.54 ft	122.389 m Southwest of the section corner.	MSL	1343.22 ft 409.413 m
DLK 2-94			
Hillside and 29th St. North			
COW Bench Mark.	Northeast corner of RCB on the top, north end of the hubguard.	City	154.56 ft 47.110 m
269.21 ft	82.055 m Southeast of section corner.	MSL	1341.96 ft 409.029 m
DLK 2-94			
Hillside and 29th St. North			
COW Bench Mark.		City	147.67 ft 45.010 m
24.00 ft	7.315 m North of section corner.		
40.00 ft	12.192 m East of section corner.	MSL	1335.07 ft 406.929 m
46.57 ft	14.195 m Northeast of section corner.		
25.50 ft	7.772 m North of power pole.		
30.00 ft	9.144 m Southeast of center of fire hydrant. North of drive into 3030 N. Hillside.		
200.00 ft	60.960 m +/- north of bridge.		
DLK			

Hillside and 37th St. North						
COW Bench Mark. Southeast corner of intersection, on the northwest corner of the traffic signal light base.			City	165.35	ft	50.399
40.10	ft	12.222	m	MSL	1352.75	ft
60.50	ft	18.440	m		412.318	m
DLK 5-94						
<b>Line 23-A: Clifton</b>						
<b>Line 23-A: Clifton</b>						
Clifton and 63rd St. South						
COW Bench Mark. Northeast corner of intersection, west side of concrete base for HLP.			City	71.47	ft	21.784
			MSL	1258.87	ft	383.704
Clifton and 1/2 mile north of 63rd St. South						
COW Bench Mark. In the east right-of-way, due east of bridge.			City	71.34	ft	21.744
4.70	ft	1.433	m	MSL	1258.74	ft
83.20	ft	25.359	m		383.664	m
69.80	ft	21.275	m			
Clifton and 55th St. South						
COW Bench Mark. Southeast corner of intersection, southwest corner of RCBC, on top of hubguard at the west end.			City	75.89	ft	23.131
			MSL	1263.29	ft	385.051
5000 Block of South Clifton						
COW Bench Mark. Southwest corner of Oaklawn Elementary School Building on the west side of the concrete base.			City	81.58	ft	24.866
			MSL	1268.98	ft	386.785
Clifton and 47th St. South						
COW Bench Mark. South side of 47th St. South, on the corner of the concrete base for the school crossing light.			City	82.38	ft	25.109
225.00	ft	68.580	m	MSL	1269.78	ft
					387.029	m
Clifton and Sunview						
COW Bench Mark. Southwest corner of intersection.			City	0.00	ft	0.000
23.10	ft	7.041	m	MSL	1187.40	ft
55.40	ft	16.886	m		361.920	m
84.60	ft	25.786	m			
39.80	ft	12.131	m			
99.80	ft	30.419	m			
K-15 and MacArthur						
COW Bench Mark. Southwest corner of intersection, on the corner of the traffic signal light concrete base.			City	0.00	ft	0.000
			MSL	1187.40	ft	361.920
Clifton and Craig						
COW Bench Mark. Southwest corner of intersection.			City	134.15	ft	40.890
32.00	ft	9.754	m	MSL	1321.55	ft
34.00	ft	10.363	m		402.810	m
JFG 1971						
Roosevelt and Gypsum Creek, south of Roseberry						
COW Bench Mark. Northwest corner of bridge, on handrail. Bridge built in 1974.			City	112.96	ft	34.430
500.00	ft	152.400	m	MSL	1300.36	ft
					396.350	m
Roosevelt and Gypsum Creek, south of Roseberry						
COW Bench Mark. Southeast corner of bridge, on handrail. Bridge built in 1974.			City	113.60	ft	34.625
500.00	ft	152.400	m	MSL	1301.00	ft
					396.545	m
Roseberry and Dry Creek, west of Roosevelt						
COW Bench Mark. Northeast corner of RCBC.			City	113.22	ft	34.509
			MSL	1300.62	ft	396.429
Cessna and Dry Creek, west of Roosevelt						
COW Bench Mark. Southwest corner of RCBC.			City	114.25	ft	34.823
250.00	ft	76.200	m	MSL	1301.65	ft
					396.743	m
Pawnee and Dry Creek, west of Roosevelt						
COW Bench Mark. Southeast corner of RCBC, on handrail.			City	115.50	ft	35.204
			MSL	1302.90	ft	397.124
George Washington Boulevard, 2200 block south						
COW Bench Mark. Southwest corner of RCBC.			City	120.69	ft	36.786
DLK 6-94			MSL	1308.09	ft	398.706
3600 Block Elmwood and Dry Creek						
COW Bench Mark. Southeast corner of bridge, top of hubguard at east end.			City	118.95	ft	36.256
DLK 6-94			MSL	1306.35	ft	398.175
1/4 mile east of Hillside and 37th St. North						
COW Bench Mark. South side of 37th St., on top of wingwall on the southeast corner of RCBC.			City	177.82	ft	54.200
			MSL	1365.22	ft	416.119



Line 24:		Line 24:	
Davidson and 31st Street South			
COW Bench Mark.	Northwest corner of intersection.	City	162.37 ft 49.491 m
26.70 ft	8.138 m West of centerline		
52.00 ft	15.850 m North of centerline	MSL	1349.77 ft 411.411 m
2.20 ft	0.671 m East of east face of walk		
12.00 ft	3.658 m West of back of curb		
JFG 1971			
George Washington Boulevard and Pawnee			
COW Bench Mark.	Northwest corner of Pawnee and George Washington Blvd.	City	121.05 ft 36.897 m
	"X" cut on south corner of Traffic Engineering		
	concrete manhole in turn bay island	MSL	1308.45 ft 398.816 m
JFG 1971			
Bluff and Mt. Vernon			
COW Bench Mark.	Southeast corner of intersection. On concrete base for	City	127.47 ft 38.853 m
	school crossing flashing light.		
25.00 ft	7.620 m South of centerline	MSL	1314.87 ft 400.772 m
32.70 ft	9.967 m East of centerline		
40.90 ft	12.466 m Southeast of 1/4 section corner iron		
2.00 ft	0.610 m South of south curb		
DLK 6-94			
Bluffview and Harry			
COW Bench Mark.	Northwest corner of intersection on traffic signal light base.	City	152.22 ft 46.397 m
9.50 ft	2.896 m North of north curb		
42.50 ft	12.954 m North of centerline	MSL	1339.62 ft 408.316 m
46.50 ft	14.173 m West of centerline		
DLK 6-94			
Bluff and Lincoln			
COW Bench Mark.	In turn island.	City	162.25 ft 49.454 m
29.50 ft	8.992 m West of centerline of Bluff going north		
44.50 ft	13.564 m South of centerline of Morris going east	MSL	1349.65 ft 411.373 m
24.00 ft	7.315 m Southwest of street light pole		
DLK 6-94			
Bluff and Longview			
COW Bench Mark.	Southwest corner of intersection. 1 block south of Kellogg.	City	170.98 ft 52.115 m
26.70 ft	8.138 m West of centerline		
36.00 ft	10.973 m South of centerline	MSL	1358.38 ft 414.034 m
4.00 ft	1.219 m Southwest (radial) to curb		
DLK 6-94			
Roosevelt and Douglas			
COW Bench Mark.	1/2 block east of Roosevelt, south side of Douglas, between	City	170.88 ft 52.084 m
	Roosevelt and Quentin.		
5.00 ft	1.524 m South of south curb, adjacent to east edge of wheel	MSL	1358.28 ft 414.004 m
	chair ramp		
9.50 ft	2.896 m North of north edge of sidewalk		
DLK 6-94			
Quentin and Central			
COW Bench Mark.	Southeast corner of intersection. Northwest corner of	City	177.78 ft 54.187 m
	concrete base for school crossing light.		
50.00 ft	15.240 m +/- east of Quentin, south of Central	MSL	1365.18 ft 416.107 m
Roosevelt and 9th Street North			
COW Bench Mark.	Southwest corner of intersection.	City	0.00 ft 0.000 m
20.20 ft	6.157 m South of centerline		
25.20 ft	7.681 m West of centerline	MSL	1187.40 ft 361.920 m
4.20 ft	1.280 m South of back of curb		
32.40 ft	9.876 m Southwest of thimble in center of intersection		
Roosevelt and 13th Street North			
COW Bench Mark.	1/2 mile east of Hillside, near railroad crossing signal	City	193.29 ft 58.915 m
28.70 ft	8.748 m South of centerline of 13th St.		
67.90 ft	20.696 m East of centerline of Lavon	MSL	1380.69 ft 420.834 m
98.90 ft	30.145 m West of centerline of Roosevelt		
DLK 5-94			
Bluff and 17th Street North			
COW Bench Mark.		City	207.54 ft 63.257 m
34.00 ft	10.363 m North of 1/4 section corner		
34.00 ft	10.363 m East of 1/4 section corner	MSL	1394.94 ft 425.177 m
JFG 1972			
Bluff and 21st Street North			
COW Bench Mmark.	Northwest corner of intersection.	City	201.08 ft 61.289 m
2.20 ft	0.671 m South of south edge of sidewalk		
2.00 ft	0.610 m East of east edge of sidewalk	MSL	1388.48 ft 423.209 m
39.40 ft	12.009 m West of centerline of Bluff going north		
18.00 ft	5.486 m West of centerline of Bluff going south		
44.00 ft	13.411 m North of centerline of 21st St.		
11.40 ft	3.475 m Northwest of street light pole		
DLK 6-94			
Bluff and 21st Street North			
Temporary bench mark.	Northwest corner of intersection. Railroad spike in	City	200.98 ft 61.259 m
	south face of street light pole.		
DLK 8-93			
Bluff and 25th Street North			
COW Bench Mark.	South parking of 25th St.	City	178.57 ft 54.428 m
10.50 ft	3.200 m South of back of curb		
26.00 ft	7.925 m South of centerline of 25th St.	MSL	1365.97 ft 416.348 m
2.00 ft	0.610 m West of centerline of Bluff going north		
52.00 ft	15.850 m East of east side of concrete drive		
DLK 6-94			

<b>Bluff and Charron</b>							
COW Bench Mark.	Northwest corner of intersection.			City	157.01 ft	47.857 m	
9.20 ft	2.804 m	South of back of curb					
24.60 ft	7.498 m	South of centerline of Charron	MSL	1344.41 ft	409.776 m		
6.30 ft	1.920 m	Southwest of center of power pole					
71.00 ft	21.641 m	West of centerline of Bluff					
45.50 ft	13.868 m	West of center of fire hydrant					
DLK 6-94							
<b>Line 24-A: Turnpike / GWB</b>				<b>Line 24-A: Turnpike / GWB</b>			
Turnpike Bridge and 31st Street South							
COW Bench Mark.	Northwest corner of corral rail, beneath 1.0' wide metal guardrail. Bridge built in 1994.			City	175.28 ft	53.425 m	
DLK 2-95				MSL	1362.68 ft	415.345 m	
Turnpike Drive and 31st Street South							
COW Bench Mark.	North side of 31st St. at west line of Turnpike Drive on traffic signal base.			City	165.59 ft	50.472 m	
DLK 8-93				MSL	1352.99 ft	412.391 m	
George Washington Boulevard and 900 ft. (274.320 m) north of Oliver							
COW Bench Mark.	1/2 mile south of Pawnee on west hubguard of RCBC.			City	115.84 ft	35.308 m	
DLK 8-93				MSL	1303.24 ft	397.228 m	
George Washington Boulevard and 100 ft. +/- (335.280 m) south of Pawnee							
COW Bench Mark.	Southeast corner of bridge on the corral rail			City	118.07 ft	35.988 m	
DLK 7-93				MSL	1305.47 ft	397.907 m	
1/4 mile east of Hillside on 37th Street North							
COW Bench Mark.	Top of wingwall on the southeast corner of box culvert, south side of 37th St.			City	177.82 ft	54.200 m	
Est 1992				MSL	1365.22 ft	416.119 m	
<b>Line 25: Oliver</b>				<b>Line 25: Oliver</b>			
Oliver and 47th Street South							
COW Bench Mark.	Northwest corner of intersection. Southeast corner of concrete base for traffic signal guy pole.			City	0.00 ft	0.000 m	
				MSL	1187.40 ft	361.920 m	
Oliver and MacArthur							
COW Bench Mark.	Southeast corner of intersection. Southwest corner of concrete base for traffic signal light.			City	0.00 ft	0.000 m	
				MSL	1187.40 ft	361.920 m	
Oliver and 31st Street South							
COW Bench Mark.	Southeast corner of intersection. Traffic signal base.			City	164.48 ft	50.134 m	
DLK 8-93				MSL	1351.88 ft	412.053 m	
Oliver and Gypsum Creek - 1100 ft. +/- (335.280 m) south of Pawnee							
COW Bench Mark.	Brass cap in the northwest corner of sidewalk, on the northeast corner of RCBC			City	121.62 ft	37.070 m	
				MSL	1309.02 ft	398.989 m	
Oliver and Pawnee							
COW Bench Mark.	Northeast corner of intersection.			City	121.15 ft	36.925 m	
52.00 ft	15.850 m	North of centerline					
42.00 ft	12.802 m	East of centerline	MSL	1308.55 ft	398.845 m		
17.20 ft	5.243 m	East of west face of inlet					
1.50 ft	0.457 m	North of north edge of sidewalk					
14.70 ft	4.481 m	Northeast of center of traffic signal pole					
14.30 ft	4.359 m	Northeast of center of street light pole					
1.20 ft	0.366 m	West of west edge of sidewalk					
JFG 1971							
Oliver and Mt. Vernon							
COW Bench Mark.	Northwest corner of intersection. Located on traffic signal pole base.			City	148.74 ft	45.336 m	
DLK 5-94				MSL	1336.14 ft	407.255 m	
* Oliver and Mt. Vernon							
COW Bench Mark.	Northeast corner of intersection. Located on traffic signal pole base.			City	148.60 ft	45.293 m	
DLK 5-94				MSL	1336.00 ft	407.213 m	
* Oliver and Harry							
COW Bench Mark.				City	142.43 ft	43.414 m	
150.00 ft	45.720 m	East of Oliver on Harry on the northwest corner of hubguard to the RCBC	JFG 1972	MSL	1329.83 ft	405.333 m	
# Oliver and Lincoln							
COW Bench Mark.	Northwest corner of intersection. Located on sign base for "Oliver Height" sign sitting on private property.			City	159.93 ft	48.747 m	
DLK 6-94				MSL	1347.33 ft	410.666 m	
# Oliver and Lincoln							
COW Bench Mark.	Northeast corner of intersection. Located on traffic signal pole base.			City	156.60 ft	47.732 m	
DLK 2-95				MSL	1344.00 ft	409.651 m	
@ Oliver and Douglas							
COW Bench Mark.	Northwest corner of intersection. Located on traffic signal pole base.			City	169.07 ft	51.533 m	
DLK 5-94				MSL	1356.47 ft	413.452 m	
@ Oliver and Douglas							
COW Bench Mark.	Northeast corner of intersection. Located on traffic signal pole base.			City	168.34 ft	51.310 m	
DLK 5-94				MSL	1355.74 ft	413.230 m	

<p>Oliver and Douglas</p>					
	Brass rod in concrete post. Southwest corner of intersection.	City	168.52 ft	51.365 m	
	3.00 ft 0.914 m West of back of sidewalk				
	8.00 ft 2.438 m South of curb	MSL	1355.92 ft	413.284 m	
	29.20 ft 8.900 m South of centerline				
	33.00 ft 10.058 m West of centerline				
<p>Oliver and Central</p>					
	COW Bench Mark. Northeast corner of intersection. Located on traffic signal pole base.	City	178.10 ft	54.285 m	
	DLK 6-94	MSL	1365.50 ft	416.204 m	
<p>Oliver and 9th Street North</p>					
	Temporary bench mark. Northeast corner of intersection. "V" in "Vollmer Const 1948". South side of concrete base for flag pole.	City	196.87 ft	60.006 m	
	Est 93	MSL	1384.27 ft	421.925 m	
<p>Oliver and 9th Street North</p>					
	COW Bench Mark. Northeast corner of intersection. Located on base for school crosswalk signal.	City	196.20 ft	59.802 m	
	33.90 ft 10.333 m East of centerline	MSL	1383.60 ft	421.721 m	
	30.50 ft 9.296 m North of centerline				
	35.70 ft 10.881 m Southwest to 1/4 section point				
	DLK 2-94				
<p>Oliver and 13th Street North</p>					
	Temporary bench mark. Northeast corner of intersection. Box chiseled into the northwest corner of the concrete base for the traffic signal pole.	City	208.45 ft	63.536 m	
	Est 93	MSL	1395.85 ft	425.455 m	
<p>Oliver and 13th Street North</p>					
	COW Bench Mark. Southwest corner of intersection. Located on traffic signal pole base.	City	208.51 ft	63.552 m	
	49.80 ft 15.179 m South of centerline	MSL	1395.91 ft	425.472 m	
	42.30 ft 12.893 m West of centerline				
	DLK 2-94				
<p>Oliver and 17th Street North</p>					
	USGS Bench Mark. Stamped P 39 1934. Southwest corner of intersection.	City	221.08 ft	67.384 m	
	36.00 ft 10.973 m South of centerline				
	32.00 ft 9.754 m West of centerline	MSL	1408.48 ft	429.303 m	
	2.00 ft 0.610 m South of railroad signal light				
	2.00 ft 0.610 m North of traffic signal pole				
	CHM 1957				
<p>Oliver and 21st Street North</p>					
	COW Bench Mark. Southwest corner of intersection.	City	218.22 ft	66.513 m	
	47.20 ft 14.387 m West of centerline				
	35.20 ft 10.729 m South of centerline	MSL	1405.62 ft	428.432 m	
	1.70 ft 0.518 m Southwest (radial) to curb				
	13.20 ft 4.023 m Northwest of face of traffic signal pole				
<p>Oliver and 25th Street North</p>					
	COW Bench Mark. Northwest corner of intersection.	City	174.49 ft	53.183 m	
	44.00 ft 13.411 m West of centerline of Oliver				
	32.00 ft 9.754 m North of centerline asphalt pavement going west on 25th St.	MSL	1361.89 ft	415.103 m	
	JFG 1972				
<p>Oliver and 29th Street North</p>					
	COW Bench Mark. Northeast corner of intersection.	City	159.68 ft	48.672 m	
	39.00 ft 11.887 m North of centerline				
	33.00 ft 10.058 m East of centerline	MSL	1347.08 ft	410.591 m	
	JFG 1972				
<p>Oliver and Norwood</p>					
	COW Bench Mark. Southeast corner of hubguard.	City	161.44 ft	49.207 m	
	100.00 ft 30.480 m +/- south of Norwood on the southeast corner of hubguard on the RCBC.	MSL	1348.84 ft	411.126 m	
	DLK 6-94				
<p>Oliver and Norwood</p>					
	COW Bench Mark.				
	300.00 ft 91.440 m +/- south of Norwood on the northeast corner of RCBC	City	160.80 ft	49.012 m	
	DLK 6-94	MSL	1348.20 ft	410.931 m	
<p>Oliver and 37th Street North</p>					
	COW Bench Mark. Northwest corner of intersection.	City	185.60 ft	56.571 m	
	Located on the southeast corner of concrete base for traffic signal pole.				
	DLK 5-94	MSL	1373.00 ft	418.490 m	
<p>Oliver and 37th Street North</p>					
	COW Bench Mark. Southwest corner of hubguard.	City	186.84 ft	56.949 m	
	100.00 ft 30.480 m +/- east of Oliver on 37th St.				
	DLK 5-94	MSL	1374.24 ft	418.868 m	
<p>Line 25-A:</p>					
<p>Drycreek (Bleckley) and Lincoln</p>					
	COW Bench Mark. Southwest corner of RCBC.	City	146.86 ft	44.763 m	
		MSL	1334.26 ft	406.682 m	
<p>Pinecrest and Orme</p>					
	COW Bench Mark. Northeast corner of RCBC.	City	151.61 ft	46.211 m	
		MSL	1339.01 ft	408.130 m	

Line 26: Edgemoor				Line 26: Edgemoor				
Edgemoor and Pawnee				City	121.76	ft	37.112	m
COW Bench Mark.				MSL	1309.16	ft	399.031	m
44.00	ft	13.411	m North of centerline of Pawnee					
104.00	ft	31.699	m West of west face of the northwest pier to turnpike					
19.50	ft	5.944	m North of back of curb					
2.00	ft	0.610	m North of guard post					
34.20	ft	10.424	m Northeast of street light pole					
745.00	ft	227.076	m +/- east of centerline of McAdam					
JFG 1971								
Edgemoor and Mt. Vernon				City	137.54	ft	41.921	m
COW Bench Mark. Northwest corner of intersection.				MSL	1324.94	ft	403.841	m
35.00	ft	10.668	m North of centerline					
35.00	ft	10.668	m West of centerline					
Edgemoor and Harry				City	145.60	ft	44.379	m
COW Bench Mark. Southeast corner of intersection				MSL	1333.00	ft	406.298	m
35.20	ft	10.729	m East of centerline					
56.70	ft	17.282	m South of centerline					
12.00	ft	3.658	m Southeast of center of traffic signal pole					
4.50	ft	1.372	m East of back of curb					
6.50	ft	1.981	m South of back of curb					
DLK 7-93								
Edgemoor and Lincoln				City	160.42	ft	48.896	m
COW Bench Mark. Southeast corner of intersection.				MSL	1347.82	ft	410.816	m
38.10	ft	11.613	m South of centerline					
39.80	ft	12.131	m East of centerline					
5.00	ft	1.524	m North of back of sidewalk					
0.50	ft	0.152	m East of back of sidewalk					
DLK 7-93								
Edgemoor and Orme				City	163.51	ft	49.838	m
COW Bench Mark. 1 block south of Kellogg. Southeast corner of intersection.				MSL	1350.91	ft	411.757	m
21.00	ft	6.401	m South of centerline					
56.50	ft	17.221	m East of centerline					
9.00	ft	2.743	m North of back of sidewalk					
15.00	ft	4.572	m East of back of sidewalk					
18.00	ft	5.486	m East-northeast of property corner iron					
DLK 7-93								
Edgemoor and Waterman				City	159.99	ft	48.765	m
COW Bench Mark. North of Kellogg over the east branch of Dry Creek, on the northeast corner of the RCBC.				MSL	1347.39	ft	410.684	m
150.00	ft	45.720	m +/- south of Waterman					
413.00	ft	125.882	m +/- north of centerline of Lexington					
1114.0	ft	339.547	m +/- north of centerline of Kellogg					
Brookside and Douglas				City	165.77	ft	50.527	m
COW Bench Mark. Northeast corner of RCBC located on the east branch of Dry Creek.				MSL	1353.17	ft	412.446	m
Edgemoor and Central				City	186.09	ft	56.720	m
COW Bench Mark. Southeast corner of intersection.				MSL	1373.49	ft	418.640	m
119.40	ft	36.393	m South of centerline					
37.40	ft	11.400	m East of centerline					
8.40	ft	2.560	m South of center of curb inlet					
35.00	ft	10.668	m South of south end of return					
DLK 7-93								
Edgemoor and 9th Street North				City	203.45	ft	62.012	m
COW Bench Mark. Southeast corner of intersection.				MSL	1390.85	ft	423.931	m
33.80	ft	10.302	m South of centerline					
34.20	ft	10.424	m East of centerline					
4.90	ft	1.494	m West of back of sidewalk					
5.40	ft	1.646	m North of back of sidewalk					
DLK 7-93								
Edgemoor and 13th Street North				City	209.99	ft	64.005	m
COW Bench Mark. Southeast corner of intersection.				MSL	1397.39	ft	425.924	m
49.00	ft	14.935	m South of centerline					
37.00	ft	11.278	m East of centerline					
DLK 7-93								
Edgemoor and 17th Street North				City	218.28	ft	66.532	m
COW Bench Mark. Southeast corner of intersection.				MSL	1405.68	ft	428.452	m
24.00	ft	7.315	m South of centerline					
32.00	ft	9.754	m East of centerline					
JFG 1972								
Edgemoor and 21st Street North				City	195.64	ft	59.631	m
COW Bench Mark. Located on the northwest corner of the RCBC on 21st St. between Edgemoor and Ridgewood.				MSL	1383.04	ft	421.551	m
DLK 8-93								
Edgemoor and Mainsgate				City	0.00	ft	0.000	m
COW Bench Mark. Southwest corner of intersection. Southeast corner of double wide RCBC on top of corral rail.				MSL	1187.40	ft	361.920	m
Edgemoor and 29th Street North				City	172.38	ft	52.543	m
COW Bench Mark. Northeast of 1/4 section corner.				MSL	1359.78	ft	414.462	m
5.50	ft	1.676	m East of 1/4 section corner					
37.00	ft	11.278	m North of 1/4 section corner					
JFG 1972								

Edgemoor and 37th Street North					
COW Bench Mark.	Northwest of 1/4 section corner.	City	193.66 ft	59.028 m	
	39.00 ft 11.887 m North of 1/4 section corner				
	44.00 ft 13.411 m East of 1/4 section corner	MSL	1381.06 ft	420.948 m	
JFG 1973					
<b>Line 26-A: Gypsum / Dry Creek</b>			<b>Line 26-A: Gypsum / Dry Creek</b>		
Gypsum Creek (Edgemoor) and Pawnee					
COW Bench Mark.	Disc in sidewalk, northeast corner of bridge.	City	123.02 ft	37.496 m	
	300.00 ft 91.440 m +/- west of KTA				
	395.00 ft 120.396 m +/- east of centerline of McAdam	MSL	1310.42 ft	399.416 m	
Gypsum Creek (Fabrique) and Harry					
COW Bench Mark.	Disc on wingwall on the northeast corner of RCBC.	City	132.68 ft	40.441 m	
Revised 7-93					
		MSL	1320.08 ft	402.360 m	
Gypsum Creek (Fabrique) and Lincoln					
COW Bench Mark.	Disc on northeast corner of RCBC.	City	144.05 ft	43.906 m	
Revised 7-93					
		MSL	1331.45 ft	405.826 m	
Dry Creek (Brookside) and 2nd Street North					
COW Bench Mark.	Disc on northeast corner of RCBC.	City	170.81 ft	52.063 m	
		MSL	1358.21 ft	413.982 m	
Dry Creek (Brookside) and Central					
COW Bench Mark.	Disc on northeast corner of RCBC.	City	170.81 ft	52.063 m	
		MSL	1358.21 ft	413.982 m	
<b>Line 27: Woodlawn</b>			<b>Line 27: Woodlawn</b>		
Woodlawn and Mt. Vernon					
COW Bench Mark.	North of Mt. Vernon on the southeast corner of bridge.	City	136.81 ft	41.700 m	
		MSL	1324.21 ft	403.619 m	
Woodlawn and Harry					
COW Bench Mark.	Southeast corner of intersection.	City	140.20 ft	42.733 m	
	35.00 ft 10.668 m South of centerline				
	69.00 ft 21.031 m East of centerline	MSL	1327.60 ft	404.652 m	
	2.00 ft 0.610 m North to back of curb				
	7.50 ft 2.286 m Southwest to traffic signal pole				
	23.40 ft 7.132 m Southwest to KGE pole				
	77.40 ft 23.592 m Northwest to section corner iron				
DLK 7-93					
Woodlawn and Lincoln					
COW Bench Mark.	Southwest corner of intersection.	City	152.20 ft	46.391 m	
	35.50 ft 10.820 m South of centerline				
	36.00 ft 10.973 m West to centerline	MSL	1339.60 ft	408.310 m	
	50.60 ft 15.423 m Northeast to 1/4 section corner				
	7.00 ft 2.134 m East to traffic signal pole				
	15.00 ft 4.572 m North to back of curb				
	0.50 ft 0.152 m South to north face of sidewalk				
	0.50 ft 0.152 m East to west face of sidewalk				
DLK 7-93					
Woodlawn and Eilerts					
COW Bench Mark.	Southwest corner of intersection.	City	157.73 ft	48.076 m	
	45.00 ft 13.716 m West of centerline				
	25.00 ft 7.620 m South of centerline	MSL	1345.13 ft	409.996 m	
	9.50 ft 2.896 m North to back of curb				
	23.80 ft 7.254 m East to back of curb				
	0.80 ft 0.244 m West to east face of sidewalk				
	0.70 ft 0.213 m South to north face of sidewalk				
DLK 8-93					
Woodlawn and Douglas					
COW Bench Mark.	Southwest corner of intersection.	City	179.46 ft	54.699 m	
	125.80 ft 38.344 m West of centerline				
	34.90 ft 10.638 m South of centerline	MSL	1366.86 ft	416.619 m	
	130.70 ft 39.837 m East-northeast to 1/4 section corner				
	14.60 ft 4.450 m South to 6 ft. (1.829 m) tall wood fence				
	14.00 ft 4.267 m North to back of curb				
	75.60 ft 23.043 m East to west face of sidewalk				
DLK 7-93					
Woodlawn and Central					
COW Bench Mark.	Southwest corner of intersection.	City	192.72 ft	58.741 m	
	162.20 ft 49.439 m South of centerline				
	34.20 ft 10.424 m West of centerline	MSL	1380.12 ft	420.661 m	
	165.40 ft 50.414 m North-northeast to section corner				
	2.40 ft 0.732 m North-northwest to center of power pole				
	2.30 ft 0.701 m West to east face of sidewalk				
	1.50 ft 0.457 m East to back of curb				
DLK 7-93					
Woodlawn and 9th Street North					
COW Bench Mark.	Northwest corner of intersection.	City	197.47 ft	60.189 m	
	51.20 ft 15.606 m West of centerline				
	30.50 ft 9.296 m North of centerline	MSL	1384.87 ft	422.108 m	
	0.60 ft 0.183 m East of concrete driveway				
	15.00 ft 4.572 m North of back of curb				
JFG 1972 Revised 1993					

Woodlawn and 13th Street North					
COW Bench Mark.	Northeast corner of intersection. Located in concrete base for traffic signal pole.		City	200.68 ft	61.167 m
	43.50 ft	13.259 m	MSL	1388.08 ft	423.087 m
	51.00 ft	15.545 m			
	67.00 ft	20.422 m			
	DLK 7-93 Rev 8-93				
Woodlawn and 17th Street North					
COW Bench Mark.	Southwest corner of intersection.		City	216.44 ft	65.971 m
	43.00 ft	13.106 m	MSL	1403.84 ft	427.891 m
	32.00 ft	9.754 m			
	JFG 1972				
Woodlawn and 21st Street North					
COW Bench Mark.	Southwest corner of intersection. Located on top of concrete retaining wall south and west of property line.		City	203.78 ft	62.112 m
	DLK 7-93		MSL	1391.18 ft	424.032 m
Woodlawn and 25th Street North					
COW Bench Mark.	Located in west parking.		City	189.16 ft	57.656 m
	24.00 ft	7.315 m	MSL	1376.56 ft	419.575 m
	45.30 ft	13.807 m			
	52.20 ft	15.911 m			
	26.60 ft	8.108 m			
	0.60 ft	0.183 m			
	21.00 ft	6.401 m			
	DLK 7-93				
Woodlawn and 29th Street North					
COW Bench Mark.	Northeast corner of hubguard on RCBC over 29th St.		City	172.41 ft	52.551 m
	100.00 ft	30.480 m	MSL	1359.81 ft	414.470 m
	75.00 ft	22.860 m			
	DLK 7-93				
Woodlawn and 34th Street North					
COW Bench Mark.	Northeast corner of handrail on the RCBC over Woodlawn.		City	177.97 ft	54.245 m
	75.00 ft	22.860 m	MSL	1365.37 ft	416.165 m
	DLK 7-93				
Woodlawn and 37th Street North					
COW Bench Mark.	Southeast corner of intersection.		City	183.04 ft	55.791 m
	75.70 ft	23.073 m	MSL	1370.44 ft	417.710 m
	56.30 ft	17.160 m			
	Est 1992				
Woodlawn and Rodeo					
COW Bench Mark.	Northeast corner of hubguard on RCBC.		City	186.99 ft	56.995 m
	300.00 ft	91.440 m	MSL	1374.39 ft	418.914 m
	250.00 ft	76.200 m			
<b>Line 27-A: Gypsum Creek</b>			<b>Line 27-A: Gypsum Creek</b>		
West Branch of Gypsum Creek (Lawrence Lane) and 13th Street North					
COW Bench Mark.	Northeast corner of guard rail on RCBC.		City	188.26 ft	57.382 m
			MSL	1375.66 ft	419.301 m
West Branch of Gypsum Creek and Farmview					
Brass cap on northwest corner of guard rail on bridge over Farmview.			City	196.46 ft	59.881 m
	250.00 ft	76.200 m	MSL	1383.86 ft	421.801 m
<b>Line 28: Gouverneur</b>			<b>Line 28: Gouverneur</b>		
Gouverneur and Harry					
COW Bench Mark.	Northeast corner of intersection.		City	148.17 ft	45.162 m
	50.00 ft	15.240 m	MSL	1335.57 ft	407.082 m
	47.50 ft	14.478 m			
	15.00 ft	4.572 m			
	20.50 ft	6.248 m			
	DLK 8-93				
Gouverneur and Harry					
COW Bench Mark.	Southeast corner of RCBC on hubguard. Stamped 1330.37		City	143.10 ft	43.617 m
	600.00 ft	182.880 m	MSL	1330.50 ft	405.536 m
	300.00 ft	91.440 m			
	24.00 ft	7.315 m			
	DLK 8-93				
Gouverneur and Lincoln					
COW Bench Mark.	Northeast corner of intersection.		City	156.56 ft	47.719 m
	30.00 ft	9.144 m	MSL	1343.96 ft	409.639 m
	2.00 ft	0.610 m			
	CHM transferred 1960				
Gouverneur and Orme					
COW Bench Mark.	In median on centerline of Gouverneur.		City	161.85 ft	49.332 m
	34.00 ft	10.363 m	MSL	1349.25 ft	411.251 m
	16.40 ft	4.999 m			
	10.20 ft	3.109 m			
	9.30 ft	2.835 m			
	44.60 ft	13.594 m			
	64.00 ft	19.507 m			
	DLK 8-93				
Armour and Douglas (Gypsum Creek)					
COW Bench Mark.	Northeast corner of RCBC.		City	167.33 ft	51.002 m
			MSL	1354.73 ft	412.922 m

Armour and Central							
COW Bench Mark.	Southwest corner of intersection.	City	181.52 ft	55.329 m			
44.00 ft	13.411 m	South of centerline					
24.00 ft	7.315 m	West of centerline	MSL	1368.92 ft	417.248 m		
JFG 1973							
Armour and 9th Street North							
COW Bench Mark.	Southeast corner of intersection.	City	176.49 ft	53.794 m			
24.00 ft	7.315 m	East of centerline					
34.00 ft	10.363 m	South of centerline	MSL	1363.89 ft	415.713 m		
2.00 ft	0.610 m	North of east-west sidewalk					
2.00 ft	0.610 m	West of north-south sidewalk					
JFG 1973							
Gouverneur and 13th Street North							
COW Bench Mark.	Northeast corner of intersection.	City	197.82 ft	60.296 m			
41.50 ft	12.649 m	North of centerline					
33.00 ft	10.058 m	East of centerline	MSL	1385.22 ft	422.216 m		
JFG 1972							
Gouverneur and Farmview							
COW Bench Mark.	East parking.	City	205.41 ft	62.609 m			
27.00 ft	8.230 m	East of centerline					
31.00 ft	9.449 m	South of centerline	MSL	1392.81 ft	424.528 m		
14.00 ft	4.267 m	West of woven wire fence					
88.50 ft	26.975 m	Southeast of southeast corner of house at 7044 Farmview					
101.00 ft	30.785 m	Northeast of northeast corner of house at 1733 Gouverneur					
DLK 7-93							
Gouverneur and 21st Street North							
COW Bench Mark.	South parking.	City	209.88 ft	63.971 m			
48.40 ft	14.752 m	South of centerline of 21st St.					
53.00 ft	16.154 m	East of center of hedge row	MSL	1397.28 ft	425.891 m		
72.00 ft	21.946 m	Southeast of 1/4 section corner iron					
9.20 ft	2.804 m	South-southeast of southeast corner of SWS inlet					
7.60 ft	2.316 m	North of north edge of sidewalk					
23.50 ft	7.163 m	Southeast of street light pole					
DLK 7-93							
Rutland and 24th Street North							
COW Bench Mark.	Northwest corner of intersection.	City	0.00 ft	0.000 m			
59.40 ft	18.105 m	North of face of light pole					
7.70 ft	2.347 m	West of back of curb	MSL	1187.40 ft	361.920 m		
4.80 ft	1.463 m	South-southwest of corner of concrete SWS inlet					
21.70 ft	6.614 m	West of centerline					
37.40 ft	11.400 m	North of centerline					
Gouverneur and 29th Street North							
COW Bench Mark.	Northwest corner of RCBC.	City	183.46 ft	55.919 m			
100.00 ft	30.480 m	+/- south of 29th St. on Gouverneur					
DLK 8-93				MSL	1370.86 ft	417.838 m	
Gouverneur and 32nd Street North							
COW Bench Mark.	North parking.	City	189.90 ft	57.882 m			
4.00 ft	1.219 m	East of centerline of Gouverneur extended					
6.20 ft	1.890 m	North of back of curb	MSL	1377.30 ft	419.801 m		
19.00 ft	5.791 m	North of centerline of 32nd St.					
88.00 ft	26.822 m	Northeast of northeast corner of house at 3241 Gouverneur					
52.00 ft	15.850 m	Northwest of street light pole					
DLK 8-93							
Gouverneur and 37th Street North							
COW Bench Mark.	North parking.	City	187.63 ft	57.190 m			
33.90 ft	10.333 m	South of centerline of 37th St.					
9.30 ft	2.835 m	North of back of curb	MSL	1375.03 ft	419.109 m		
147.50 ft	44.958 m	Northeast of 1/4 section corner iron					
5.40 ft	1.646 m	South of face of sidewalk					
10.50 ft	3.200 m	West of concrete driveway					
75.50 ft	23.012 m	South-southeast of southeast corner of Water Department Building					
DLK 8-93							
<b>Line 28-A:</b>				<b>Line 28-A:</b>			
Armour and Lincoln (Gypsum Creek)							
Brass cap on the northeast corner of RCBC.		City	138.16 ft	42.111 m			
		MSL	1325.56 ft	404.031 m			
West Branch of Gypsum Creek and Central (East of Broadmoor)							
COW Bench Mark. Southeast corner of south headwall on RCBC.		City	159.84 ft	48.719 m			
		MSL	1347.24 ft	410.639 m			
West Branch of Gypsum Creek, Killarney Place and Rutland Road							
COW Bench Mark. Northeast corner of intersection on the northeast corner of RCBC.		City	168.86 ft	51.469 m			
		MSL	1356.26 ft	413.388 m			
Inwood and 36th Street North							
COW Bench Mark. Northwest corner of hubguard on RCBC, south of 37th St. and east of Gouverneur.		City	183.25 ft	55.855 m			
DLK 8-93		MSL	1370.65 ft	417.774 m			
<b>Line 29: Rock Road</b>				<b>Line 29: Rock Road</b>			
Rock Road and 47th Street South							
COW Bench Mark. Northwest corner of intersection. South corner of concrete base for combination street and traffic light pole.		City	0.00 ft	0.000 m			
		MSL	1187.40 ft	361.920 m			

Rock Road and 600 ft. (182.880 m) +/- south of 31st Street South COW Bench Mark. South end of hubguard on the southwest corner of RCBC.	City	180.04 ft	54.876 m
	MSL	1367.44 ft	416.796 m
Rock Road and Oak Knoll COW Bench Mark. Northeast corner of intersection.	City	188.25 ft	57.379 m
62.00 ft 18.898 m East of centerline			
53.00 ft 16.154 m North of centerline	MSL	1375.65 ft	419.298 m
JFG 1973			
Rock Road and Mt. Vernon COW Bench Mark. 1/2 mile (0.810 km) south of Harry.	City	163.70 ft	49.897 m
32.00 ft 9.754 m South of 1/4 section corner			
62.00 ft 18.898 m West of 1/4 section corner	MSL	1351.10 ft	411.816 m
JFG 1973			
Rock Road and Bluestem COW Bench Mark. Southwest corner of bridge on Bluestem.	City	152.40 ft	46.452 m
300.00 ft 91.440 m +/- east of Rock Road	MSL	1339.80 ft	408.371 m
Rock Road and Harry COW Bench Mark. Northeast corner of wingwall on new portion of bridge.	City	146.85 ft	44.760 m
250.00 ft 76.200 m +/- east of Rock Road	MSL	1334.25 ft	406.679 m
1981			
Rock Road and Lincoln COW Bench Mark. Southwest corner of intersection.	City	144.05 ft	43.906 m
34.50 ft 10.516 m South of centerline			
103.80 ft 31.638 m West of centerline	MSL	1331.45 ft	405.826 m
DLK 1977			
Rock Road and Kellogg COW Bench Mark. Northeast corner of intersection.	City	166.26 ft	50.675 m
54.00 ft 16.459 m East of centerline			
142.70 ft 43.495 m North of centerline	MSL	1353.66 ft	412.595 m
JFG 1973			
Rock Road and Douglas COW Bench Mark. Southeast corner of intersection.	City	168.23 ft	51.277 m
42.50 ft 12.954 m South of centerline			
54.30 ft 16.551 m East of centerline	MSL	1355.63 ft	413.197 m
JFG 1973 gone 5-94			
Rock Road and Douglas COW Bench Mark. Northeast corner of intersection on traffic signal light base.	City	168.15 ft	51.252 m
DLK 7-94	MSL	1355.55 ft	413.172 m
Rock Road and Central COW Bench Mark. Northeast corner of intersection on traffic signal light base.	City	166.45 ft	50.734 m
DLK 8-93	MSL	1353.85 ft	412.653 m
Rock Road and 9th Street North COW Bench Mark. Southwest of 1/4 section corner.	City	180.09 ft	54.892 m
44.00 ft 13.411 m West of 1/4 section corner			
2.00 ft 0.610 m South of 1/4 section corner	MSL	1367.49 ft	416.812 m
150.00 ft 45.720 m North of Donegal			
1.50 ft 0.457 m West of concrete walk			
6.50 ft 1.981 m East of cedar fence			
21.00 ft 6.401 m Southeast of fire hydrant			
JFG 1972			
Rock Road and 13th Street North COW Bench Mark. Northeast corner of intersection on traffic signal light pole.	City	187.27 ft	57.080 m
DLK 5-94	MSL	1374.67 ft	418.999 m
Rock Road and 13th Street North temporary bench mark. Northwest corner of intersection. Top of 3/4" bolt on the northeast corner of concrete base for the traffic controller cabinet.	City	189.67 ft	57.811 m
40.00 ft 12.192 m West of centerline of Rock Road	MSL	1377.07 ft	419.731 m
100.00 ft 30.480 m North of centerline of 13th.			
DLK 8-93			
Rock Road and 17th Street North COW Bench Mark. Northeast corner of concrete base for railroad signal light on the north side of train tracks, west side of Rock Road.	City	203.19 ft	61.932 m
DLK 5-94	MSL	1390.59 ft	423.852 m
Rock Road and 17th Street North temporary bench mark. Top of 1-3/8" bolt on the northwest corner of railroad signal light base on the south side of train tracks, east side of Rock Road.	City	202.96 ft	61.862 m
DLK 8-93	MSL	1390.36 ft	423.782 m
Rock Road and 21st Street North COW Bench Mark. Northeast corner of intersection, in turn island.	City	214.67 ft	65.431 m
45.00 ft 13.716 m North of centerline			
48.00 ft 14.630 m East of centerline	MSL	1402.07 ft	427.351 m
Rock Road and 24th Street North COW Bench Mark. Northwest corner of intersection.	City	214.82 ft	65.477 m
80.50 ft 24.536 m West of centerline of Rock Road			
5.00 ft 1.524 m North of back of curb	MSL	1402.22 ft	427.397 m
19.80 ft 6.035 m West of northwest corner of storm water sewer inlet			
27.30 ft 8.321 m Northwest of center of tree in median			



Rock Road and 24th Street North temporary bench mark. Northwest corner of intersection. Railroad spike in west face of street light pole.	City	214.59	ft	65.407	m
	MSL	1401.99	ft	427.327	m
Rock Road and 29th Street North COW Bench Mark. Southeast corner of intersection on traffic signal pole base.	City	216.21	ft	65.901	m
	MSL	1403.61	ft	427.820	m
Rock Road and k-96 Highway COW Bench Mark. Near south line of K-96 right-of-way, in center median in Rock Road.	City	204.40	ft	62.301	m
	MSL	1391.80	ft	424.221	m
Rock Road and 37th Street North COW Bench Mark. Northwest corner of concrete field drain.	City	203.87	ft	62.140	m
150.00 ft 45.720 m +/- east of the east line of Rock Road					
6.00 ft 1.829 m +/- south of the south line of 37th St.	MSL	1391.27	ft	424.059	m
<b>Line 29-A:</b>					<b>Line 29-A:</b>
West of Capri and Pawnee Brass Plug. USGS Survey Marker.	City	198.85	ft	60.609	m
28.00 ft 8.534 m South of Pawnee					
530.00 ft 161.544 m West of centerline of Capri	MSL	1386.25	ft	422.529	m
973.00 ft 296.570 m West of 1/4 section corner at West Parkway					
Rosalie and Zimmerly COW Bench Mark. Northwest corner of intersection.	City	165.27	ft	50.374	m
32.00 ft 9.754 m West of centerline					
24.20 ft 7.376 m North of centerline	MSL	1352.67	ft	412.294	m
Gypsum Creek (Main or middle Branch) and Douglas COW Bench Mark. Northeast corner of RCBC on guard rail, west of Tara Lane.	City	153.71	ft	46.851	m
	MSL	1341.11	ft	408.770	m
Gypsum Creek (Main or middle brach) and Central COW Bench Mark. Northeast corner of RCBC on headwall, at Tara Lane.	City	156.71	ft	47.765	m
	MSL	1344.11	ft	409.685	m
<b>Line 30: 0.5 miles east of Rock Road</b>					<b>Line 30: 0.5 miles east of Rock Road</b>
0.5 miles (0.810 km) east of Rock Road on 31st Street South COW Bench Mark. North right-of-way.	City	200.42	ft	61.088	m
7.40 ft 2.256 m South of chain link fence					
5.00 ft 1.524 m North of north face of power pole	MSL	1387.82	ft	423.008	m
44.00 ft 13.411 m North of 31st St. south centerline					
Dalton and Pawnee -0.5 miles (0.810 km) east of Rock Road temporary bench mark. Northeast corner of intersection. Railroad spike in south face of high line pole.	City	192.80	ft	58.765	m
	MSL	1380.20	ft	420.685	m
Dalton and Pawnee -0.5 miles (0.810 km) east of Rock Road COW Bench Mark. Southwest corner of intersection.	City	192.20	ft	58.583	m
20.80 ft 6.340 m West of centerline					
54.50 ft 16.612 m South of centerline	MSL	1379.60	ft	420.502	m
6.20 ft 1.890 m South of street light pole					
3.00 ft 0.914 m West of back of curb					
3.40 ft 1.036 m North of north face of storm water sewer inlet					
Longford and Longford Court (Addressed 1800-1899) COW Bench Mark. Southwest corner of intersection.	City	0.00	ft	0.000	m
9.50 ft 2.896 m South of corner of first storm water sewer inlet due west	MSL	1187.40	ft	361.920	m
33.20 ft 10.119 m South of centerline of Longford					
102.90 ft 31.364 m West of fire hydrant					
0.5 miles (0.810 km) east of Rock Road on Harry temporary bench mark. Railroad spike in north face of power pole numbered '8801', east of Harry.	City	161.39	ft	49.192	m
6.00 ft 1.829 m South of south curb	MSL	1348.79	ft	411.111	m
45.00 ft 13.716 m +/- east of 1/4 section corner					
0.5 miles (0.810 km) east of Rock Road on Harry COW Bench Mark. Northeast of 1/4 section corner iron.	City	162.65	ft	49.576	m
41.00 ft 12.497 m North of 1/4 section corner iron					
18.00 ft 5.486 m East of 1/4 section corner iron	MSL	1350.05	ft	411.495	m
45.70 ft 13.929 m Northeast of 1/4 section corner iron					
2.00 ft 0.610 m South of south face of sidewalk					
16.60 ft 5.060 m North of back of curb					
7.00 ft 2.134 m East-northeast of center of sanitary sewer manhole					
0.5 miles (0.810 km) east of Rock Road on Kellogg COW Bench Mark. Northwest corner of RCBC on north side of Kellogg	City	0.00	ft	0.000	m
400.00 ft 121.920 m +/- east of Bonnie Brae	MSL	1187.40	ft	361.920	m
Linden Drive and Douglas COW Bench Mark. On east end of north handrail for the RCBC, just west of Linden Drive, on Douglas.	City	154.28	ft	47.023	m
	MSL	1341.68	ft	408.943	m
West Parkway and Central COW Bench Mark.	City	167.28	ft	50.988	m
44.00 ft 13.411 m South of centerline of Central					
39.00 ft 11.887 m East of 1/4 section corner iron	MSL	1354.68	ft	412.908	m
19.00 ft 5.791 m East of centerline of West Parkway					

0.5 miles (0.810 km) east of Rock Road on 13th Street North COW Bench Mark. Southwest of 1/4 section corner iron.	City	187.59 ft	57.177 m
36.00 ft 10.973 m South of 1/4 section corner iron			
4.00 ft 1.219 m West of 1/4 section corner iron	MSL	1374.99 ft	419.097 m
Gatewood and Summerfield			
COW Bench Mark. West side of Gatewood, in-line with the south curb line of Summerfield. Approximately the 1700 block of north Gatewood.	City	0.00 ft	0.000 m
18.80 ft 5.730 m South of south face of light pole	MSL	1187.40 ft	361.920 m
2.60 ft 0.792 m West of back of curb			
0.5 miles (0.810 km) east of Rock Road on 21st Street North			
COW Bench Mark. Northeast corner of hubguard on RCBC.	City	190.04 ft	57.924 m
	MSL	1377.44 ft	419.844 m
2500 Block of North Wilderness Circle			
COW Bench Mark. East face of concrete base for high line pole on the east side of Wilderness.	City	205.38 ft	62.600 m
	MSL	1392.78 ft	424.519 m
0.5 miles (0.810 km) east of Rock Road on 29th Street North			
COW Bench Mark. Northwest corner of RCBC, on the south end of the wingwall.	City	215.80 ft	65.776 m
100.00 ft 30.480 m +/- east of 1/4 section corner	MSL	1403.20 ft	427.695 m
300.00 ft 91.440 m +/- west of Wilderness			
0.5 miles (0.810 km) east of Rock Road on 29th Street North			
COW Bench Mark. Northeast corner of RCBC, on the south end on the wingwall.	City	215.95 ft	65.822 m
500.00 ft 152.400 m +/- west of 1/4 section corner	MSL	1403.35 ft	427.741 m
900.00 ft 274.320 m +/- west of Wilderness			
0.5 miles (0.810 km) east of Rock Road on 37th Street North			
60.65 ft 18.486 m East of northeast bolt base of west signal control on the south side of 37th St.	City	224.66 ft	68.476 m
32.00 ft 9.754 m South of 1/4 section corner in centerline of 37th St.	MSL	1412.06 ft	430.396 m
11.00 ft 3.353 m East of 1/4 section corner in centerline of 37th St.			
46.30 ft 14.112 m East of centerline of railroad tracks			
250.00 ft 76.200 m +/- east of Comotara			
0.5 miles (0.810 km) east of Rock Road on 37th Street North			
COW Bench Mark. South side of 37th St., on the northeast corner of the concrete base for railroad signal.	City	224.48 ft	68.422 m
40.00 ft 12.192 m East of 1/4 section corner	MSL	1411.88 ft	430.341 m
14.20 ft 4.328 m West of centerline of railroad tracks			
32.00 ft 9.754 m South of centerline of 37th St.			
300.00 ft 91.440 m +/- east of Comotara			
<b>Line 30-A:</b>		<b>Line 30-A:</b>	
RCBC on Gatewood, between Cypress and Autumn Chase	City	187.54 ft	57.162 m
COW Bench Mark. Northeast corner of RCBC.	MSL	1374.94 ft	419.082 m
<b>Line 31: Webb Road</b>		<b>Line 31: Webb Road</b>	
Webb Road and 31st Street South	City	181.18 ft	55.224 m
COW Bench Mark. Southeast corner of RCBC, east side of Webb Rd.	MSL	1368.58 ft	417.143 m
100.00 ft 30.480 m +/- north of 31st St.			
Webb Road and 0.5 miles (0.810 km) south of Pawnee			
COW Bench Mark. East right-of-way.	City	196.78 ft	59.979 m
4.60 ft 1.402 m North of north face of power pole	MSL	1384.18 ft	421.898 m
31.80 ft 9.693 m East of centerline of Webb Rd.			
21.50 ft 6.553 m South of RCBC corner			
71.50 ft 21.793 m East-southeast of 1st power pole north of west driveway			
Webb Road and Pawnee			
COW Bench Mark. Southwest corner of intersection.	City	205.68 ft	62.691 m
53.00 ft 16.154 m South of centerline	MSL	1393.08 ft	424.610 m
47.00 ft 14.326 m West of centerline			
19.70 ft 6.005 m Southwest of center of power pole			
8.50 ft 2.591 m Southeast of guy pole			
70.50 ft 21.488 m Southwest of section corner iron			
Webb Road and Mt. Vernon			
COW Bench Mark. Southwest of 1/4 section corner (6" deep).	City	182.48 ft	55.619 m
47.00 ft 14.326 m West of 1/4 section corner	MSL	1369.88 ft	417.539 m
44.00 ft 13.411 m South of 1/4 section corner			
37.20 ft 11.339 m North of north face of sidewalk running east-west			
64.40 ft 19.629 m Southwest of 1/4 section corner			
3.60 ft 1.097 m East of 6 ft. (1.829 m) tall concrete fence			
Webb Road and Harry			
COW Bench Mark. Northwest corner of intersection. Southeast corner of signal light pole base.	City	171.64 ft	52.316 m
66.00 ft 20.117 m Northwest of section corner iron	MSL	1359.04 ft	414.235 m
37.50 ft 11.430 m North of 'X' in median curb nose west of centerline			
58.70 ft 17.892 m West of 'X' in median curb nose north of centerline			
42.70 ft 13.015 m South-southeast of center of fire hydrant			
Webb Road and Lincoln			
temporary bench mark. Southeast corner of intersection. Northeast corner of traffic signal light pole base.	City	177.08 ft	53.974 m
	MSL	1364.48 ft	415.894 m

Webb Road and Lincoln					
COW Bench Mark.	Southwest corner of intersection. Northwest corner of traffic signal light pole base.		City	176.91 ft	53.922 m
	22.00 ft	6.706 m Southeast of fire hydrant	MSL	1364.31 ft	415.842 m
	37.00 ft	11.278 m South of centerline			
	35.90 ft	10.942 m West of centerline			
Webb Road and Turnpike					
COW Bench Mark.	Southeast corner of bridge on top of concrete hubguard.		City	194.35 ft	59.238 m
			MSL	1381.75 ft	421.157 m
Webb Road and Kellogg					
COW Bench Mark.	Southeast corner of intersection, near traffic signal light pole base.		City	180.40 ft	54.986 m
	4.30 ft	1.311 m South-southwest of center of traffic signal pole	MSL	1367.80 ft	416.905 m
	78.80 ft	24.018 m Southeast of railroad spike in thimble			
	41.00 ft	12.497 m East of centerline of Webb Rd.			
	61.40 ft	18.715 m West-northwest of center of fire hydrant			
Webb Road and Douglas					
COW Bench Mark.	Southwest corner of intersection. Northeast of traffic signal light pole base.		City	176.75 ft	53.873 m
	66.85 ft	20.376 m Southwest of 3/4" iron pipe in section corner	MSL	1364.15 ft	415.793 m
	49.00 ft	14.935 m West of centerline			
	41.30 ft	12.588 m South of centerline			
	17.40 ft	5.304 m North-northwest of fire hydrant			
Webb Road and Central					
COW Bench Mark.	Southwest corner of RCBC.		City	174.73 ft	53.258 m
	200.00 ft	60.960 m +/- north of Central	MSL	1362.13 ft	415.177 m
	94.40 ft	28.773 m North of high line pole on west side of Webb Rd.			
	40.41 ft	12.317 m West of back of curb of east median curb on Webb Rd.			
Webb Road and 9th Street North					
COW Bench Mark.	Southeast of 1/4 section corner.		City	171.92 ft	52.401 m
	34.00 ft	10.363 m East of 1/4 section corner	MSL	1359.32 ft	414.321 m
	44.00 ft	13.411 m South of 1/4 section corner			
	9.30 ft	2.835 m East of back of curb			
	20.50 ft	6.248 m Northwest of center of water meter vault			
	43.50 ft	13.259 m Southwest of sanitary sewer manhole			
	68.00 ft	20.726 m Southwest of north end of wrought iron fence			
	62.20 ft	18.959 m South-southwest of face of power pole			
Webb Road and 13th Street North					
COW Bench Mark.	Southeast corner of intersection, on traffic signal light pole base.		City	187.00 ft	56.998 m
			MSL	1374.40 ft	418.917 m
Webb Road and 17th Street North					
COW Bench Mark.	Northwest corner of concrete base for railroad crossing light on the south side of the railroad tracks, east side of Webb Rd.		City	194.48 ft	59.278 m
			MSL	1381.88 ft	421.197 m
Webb Road and 21st Street North					
COW Bench Mark.	Southeast corner of intersection.		City	205.45 ft	62.621 m
	44.00 ft	13.411 m South of centerline	MSL	1392.85 ft	424.541 m
	48.00 ft	14.630 m East of centerline			
Webb Road and 21st Street North					
COW Bench Mark.	Northeast corner of concrete vault.		City	205.70 ft	62.697 m
	415.00 ft	126.492 m West of Webb Rd.	MSL	1393.10 ft	424.617 m
	77.20 ft	23.531 m North of centerline of 21st St.			
Webb Road and 25th Street North					
COW Bench Mark.	0.5 miles (0.810 km) north of 21st St., on concrete base for high line pole. North of 1/4 section corner.		City	225.35 ft	68.687 m
			MSL	1412.75 ft	430.606 m
Webb Road and K-96 Highway					
COW Bench Mark.	West side of Webb Rd. in sign base.		City	222.74 ft	67.891 m
	2.00 ft	0.610 m West of west face of sidewalk	MSL	1410.14 ft	429.811 m
	50.00 ft	15.240 m +/- north of east bound on ramp			
Webb Road and 34th Street North					
COW Bench Mark.	Northwest corner of intersection.		City	244.18 ft	74.426 m
	3.00 ft	0.914 m North of back of curb	MSL	1431.58 ft	436.346 m
	8.60 ft	2.621 m West of signal alarm pole			
	84.00 ft	25.603 m West of centerline			
	40.20 ft	12.253 m East-northeast of center of tree in median			
Webb Road and 34th Street North					
temporary bench mark.	'Box' cut in top of north curb of 34th St.		City	244.04 ft	74.383 m
	100.00 ft	30.480 m +/- west of center of Webb Rd.	MSL	1431.44 ft	436.303 m
Webb Road and 37th Street North					
temporary bench mark.	Southeast corner of intersection. 'Box' cut on the northeast corner of 4'x5' concrete water vault.		City	226.30 ft	68.976 m
	56.50 ft	17.221 m South of centerline	MSL	1413.70 ft	430.896 m
	53.00 ft	16.154 m East of centerline			
Webb Road and 37th Street North					
COW Bench Mark.	Northwest corner of intersection.		City	227.52 ft	69.348 m
	53.00 ft	16.154 m North of centerline	MSL	1414.92 ft	431.268 m
	38.00 ft	11.582 m West of centerline			

<b>Line 31-A:</b>				<b>Line 31-A:</b>			
Goebel and Harry							
COW Bench Mark.	Northeast corner of RCBC.			City	165.58	ft	50.469
	100.00	ft	30.480	m	+/- north of centerline of Harry		
	30.00	ft	9.144	m	+/- east of centerline of Goebel		
				MSL	1352.98	ft	412.388
Todd and Bailey							
COW Bench Mark.	Northeast corner of RCBC.			City	158.99	ft	48.460
	150.00	ft	45.720	m	+/- south of Bailey on east line of Todd		
				MSL	1346.39	ft	410.380
<b>Line 32: 0.5 miles east of Webb Road</b>				<b>Line 32: 0.5 miles east of Webb Road</b>			
0.5 miles (0.810 km) east of Webb Road on Pawnee							
COW Bench Mark.	North Parking.			City	196.49	ft	59.890
	36.90	ft	11.247	m	South-southwest to 1/4 section corner iron		
	36.80	ft	11.217	m	South to centerline of Pawnee		
	8.10	ft	2.469	m	East of 1/2 section line		
	26.50	ft	8.077	m	West of face of power pole		
	23.00	ft	7.010	m	Northwest of 24" cmp		
				MSL	1383.89	ft	421.810
Cranbrook and Skinner							
COW Bench Mark.	Southeast corner of intersection.			City	172.63	ft	52.618
	23.10	ft	7.041	m	East of centerline		
	37.40	ft	11.400	m	South of centerline		
	7.70	ft	2.347	m	West of west face of sidewalk		
				MSL	1360.03	ft	414.537
400 ft (121.920 km) north of Harry on Todd							
COW Bench Mark.	Northeast corner of RCBC, south end of wingwall.			City	157.24	ft	47.927
	150.00	ft	45.720	m	+/- south of Todd Place		
	2100.0	ft	640.080	m	East of Webb Rd		
				MSL	1344.64	ft	409.846
Todd and Lincoln							
COW Bench Mark.	Northwest corner of intersection.			City	161.96	ft	49.365
	31.00	ft	9.449	m	West of centerline		
	24.00	ft	7.315	m	North of centerline		
	4.90	ft	1.494	m	South of south face of sidewalk		
				MSL	1349.36	ft	411.285
0.5 miles (0.810 km) east of Webb Road on Kellogg							
temporary bench mark. Bolt on the southeast face of power pole that has been cut-off, approximately 6 ft (1.828 km) tall.				City	173.01	ft	52.733
	75.00	ft	22.860	m	+/- south of centerline of Kellogg		
	30.00	ft	9.144	m	+/- east of 1/4 section corner line running north-south		
	2.00	ft	0.610	m	Above ground level		
				MSL	1360.41	ft	414.653
0.5 miles (0.810 km) east of Webb Road on Kellogg							
COW Bench Mark.	North side of Kellogg.			City	171.25	ft	52.197
	59.70	ft	18.197	m	North of section line		
	71.00	ft	21.641	m	North of centerline		
	6.00	ft	1.829	m	South of 8 ft. (2.438 km) chain link fence		
	64.30	ft	19.599	m	Northeast of 1/4 section corner iron		
	15.20	ft	4.633	m	East-southeast of center of power pole		
	22.00	ft	6.706	m	East of Hedge row north		
				MSL	1358.65	ft	414.117
0.5 miles (0.810 km) east of Webb Road on Central							
COW Bench Mark.				City	205.00	ft	62.485
	43.00	ft	13.106	m	North of centerline of Central		
	19.00	ft	5.791	m	East of center of Rock Rd. rail spur to Raytheon		
	35.00	ft	10.668	m	West of centerline of Mellor Street		
				MSL	1392.40	ft	424.404
Beech and Braley							
COW Bench Mark.	Northwest corner of intersection.			City	0.00	ft	0.000
	8.10	ft	2.469	m	North of power pole		
	21.60	ft	6.584	m	West of approximate centerline of Beech		
	14.90	ft	4.542	m	South of 6 ft (1.828 km) chain link fence		
	8.10	ft	2.469	m	Northeast of guy wire		
	60.00	ft	18.288	m	North of 12 in (30.48 cm) diameter elm		
	69.60	ft	21.214	m	North-northeast of chain link fence corner		
				MSL	1187.40	ft	361.920
0.5 miles (0.810 km) east of Webb Road on 13th Street North							
COW Bench Mark.	South right-of-way.			City	0.00	ft	0.000
				MSL	1187.40	ft	361.920
0.5 miles (0.810 km) east of Webb Road on 13th Street North							
COW Bench Mark.	South right-of-way.			City	0.00	ft	0.000
	45.92	ft	13.996	m	Southeast of 1/4 section corner iron		
	6.60	ft	2.012	m	East of wire fence corner		
	9.80	ft	2.987	m	North of fence going east-west		
	41.30	ft	12.588	m	South of centerline of 13th St.		
				MSL	1187.40	ft	361.920
0.5 miles (0.810 km) east of Webb Road on 21st Street North							
COW Bench Mark.	North right-of-way.			City	196.23	ft	59.811
	39.00	ft	11.887	m	North of 1/4 section corner iron in centerline of 21st St		
	12.30	ft	3.749	m	South of southeast corner of block fence		
	11.80	ft	3.597	m	South of property iron		
	28.30	ft	8.626	m	Northwest of east end of cmp		
				MSL	1383.63	ft	421.730
<b>Line 32-A:</b>				<b>Line 32-A:</b>			
350 ft (106.680 km) west of Smithmoor on Harry							
COW Bench Mark.	Southeast corner of RCBC under Harry, east end of hubguard.			City	153.38	ft	46.750
				MSL	1340.78	ft	408.670
<b>Line 33: Greenwich Road</b>				<b>Line 33: Greenwich Road</b>			
Greenwich and Pawnee							
COW Bench Mark.	Northwest corner of intersection. Northwest corner of 4' X 12' (1.219m X 3.658 m) RCBC under Greenwich, north end of hubguard.			City	165.01	ft	50.295
				MSL	1352.41	ft	412.215

Greenwich and Mt. Vernon (Clark)					
COW Bench Mark. East right-of-way, northeast corner of double 4' X 12' (1.219 m X 3.658 m) RCBC.	City	151.71 ft	46.241 m		
	MSL	1339.11 ft	408.161 m		
Greenwich and Harry					
COW Bench Mark. Northeast corner of intersection. Southwest corner of concrete base for traffic signal light pole.	City	156.46 ft	47.689 m		
	MSL	1343.86 ft	409.609 m		
Greenwich and Lincoln					
COW Bench Mark. Northwest corner of double 4' X 6' (1.219 m X 1.829 m) RCBC, on hubguard. In front of 930 S. Greenwich.	City	146.62 ft	44.690 m		
250.00 ft    76.200 m    South of Lincoln	MSL	1334.02 ft	406.609 m		
Greenwich and Kellogg					
COW Bench mark. Southeast corner of intersection. Northwest corner of traffic signal light pole base.	City	164.78 ft	50.225 m		
48.60 ft    14.813 m    North-northwest of center of sanitary sewer manhole	MSL	1352.18 ft	412.144 m		
48.70 ft    14.844 m    South of center of traffic signal manhole in Kellogg median					
70.50 ft    21.488 m    East of back of east curb on east side of median in Greenwich Road					
Greenwich and Douglas					
COW Bench Mark. Southeast corner of intersection.	City	185.18 ft	56.442 m		
34.00 ft    10.363 m    South of centerline	MSL	1372.58 ft	418.362 m		
52.00 ft    15.850 m    East of centerline					
62.00 ft    18.898 m    Southeast of 1/4 section corner iron					
48.50 ft    14.783 m    West-northwest of 6 ft (1.818 m) chain link fence					
13.30 ft    4.054 m    Northeast of face of power pole					
Greenwich and Central					
temporary bench mark. Square cut on the southwest corner of concrete headwall for RCBC.	City	188.83 ft	57.555 m		
24.50 ft    7.468 m    South of centerline	MSL	1376.23 ft	419.474 m		
56.70 ft    17.282 m    West of centerline					
Greenwich and Central					
COW Bench Mark. Southwest corner of intersection. Northeast corner of traffic signal light pole base.	City	188.85 ft	57.561 m		
45.60 ft    13.899 m    South of centerline	MSL	1376.25 ft	419.481 m		
36.40 ft    11.095 m    West of centerline					
57.86 ft    17.636 m    Southwest of 1/2" section corner iron					
Greenwich and 9th Street North-0.5 miles (0.810 km) north of Central					
COW Bench Mark. East parking	City	201.78 ft	61.503 m		
47.60 ft    14.508 m    East of centerline	MSL	1389.18 ft	423.422 m		
2.50 ft    0.762 m    West of fence running north-south					
10.60 ft    3.231 m    Southeast of cmp culvert					
4.00 ft    1.219 m    South of 1/2 section line					
7.50 ft    2.286 m    Southwest of 28" Mulberry tree					
Greenwich and 9th Street North-0.5 miles (0.810 km) north of Central					
temporary bench mark. Railroad spike in east face of power pole, west side of Greenwich Rd., across from Pier Point Cemetary.	City	203.73 ft	62.097 m		
	MSL	1391.13 ft	424.016 m		
Greenwich and 13th Street North					
COW Bench Mark. Southwest corner of intersection.	City	198.13 ft	60.390 m		
43.80 ft    13.350 m    South of centerline	MSL	1385.53 ft	422.310 m		
101.50 ft    30.937 m    West of centerline					
7.20 ft    2.195 m    North of barb wire fence running east-west					
Greenwich and 13th Street North					
temporary bench mark. Northeast corner of intersection. Railroad spike in north face of street light pole.	City	196.21 ft	59.805 m		
	MSL	1383.61 ft	421.724 m		
Greenwich and 17th Street North					
COW Bench Mark. West side of Greenwich in railroad signal base.	City	183.19 ft	55.836 m		
	MSL	1370.59 ft	417.756 m		
Greenwich and 21st Street North					
COW Bench Mark.	City	0.00 ft	0.000 m		
	MSL	1187.40 ft	361.920 m		
<b>Line 33-A:</b>				<b>Line 33-A:</b>	
0.25 miles (0.405 km) east of Greenwich on 13th Street North (13th St & K-96 Hy)	City	204.22 ft	62.246 m		
COW Bench mark. Northwest corner of bridge on concrete sidewalk.	MSL	1391.62 ft	424.166 m		
<b>Line 34: Zelta Drive</b>				<b>Line 34: Zelta Drive</b>	
Zelta Drive and Kellogg					
COW Bench Mark. In center median	City	174.70 ft	53.248 m		
75.00 ft    22.860 m    West of 1/4 section corner	MSL	1362.10 ft	415.168 m		
6.00 ft    1.829 m    North of 1/4 section corner					
11.50 ft    3.505 m    South of south edge of west bound asphalt pavement					
57.20 ft    17.435 m    Southwest of fire hydrant					
Zelta Drive and Douglas					
COW Bench Mark. Northwest corner of intersection	City	169.89 ft	51.782 m		
32.00 ft    9.754 m    West of centerline	MSL	1357.29 ft	413.702 m		
38.00 ft    11.582 m    North of centerline					
9.10 ft    2.774 m    North-northeast of face of telephone pole					
23.50 ft    7.163 m    Northeast of guy wire					