

STATE	PROJECT NO.	YEAR	SHEET NO.	SHEETS
KANSAS	87 N-0349-01	2009	67	133

MKEC
ENGINEERING
CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

**17th STREET
FROM GROVE TO HILLSIDE**

DRIVEWAY PAVEMENT					DRIVEWAY ITEMS ON PRIVATE PROPERTY				REMARKS	
STATION	SIDE	CONC. PVMT. (8") (REINF.) (SQ.FT.)	P (FT.)	L (FT.)	WIDTH (FT.)	CONC. PVMT. (8") (reinf.) (SQ.FT.)	5" ASPHALT (SQ.FT.) Δ	(AS-1) (2") ON (AB-3)(3") (SQ.FT.)		CURB & GUTTER COMBINED (AE) (L.F.)
17th STREET										
48+44.40	Lt.	1114.30	30.0	30.0	31.00					
49+07.18	Lt.	887.34	26.5	26.5	30.00					
51+06.25	Rt.	1154.49	25.5	25.5	38.50					
51+15.16	Lt.	861.91	25.5	25.5	24.00					
51+59.90	Rt.	473.87	25.5	25.5	11.78					
51+93.49	Lt.	843.36	25.5	25.5	23.28					
53+90.89	Lt.	847.15	25.5	25.5	30.91					
54+00.92	Rt.	785.78	25.5	25.5	24.00					
54+75.36	Lt.	1040.79	25.5	25.5	31.00					
54+75.81	Rt.	860.33	24.5	24.5	30.00					
55+16.59	Rt.	388.04	25.5	25.5	10.00					
57+94.54	Rt.	863.15	25.5	25.5	24.00					
65+15.43	Rt.	592.40	25.5	25.5	16.50					
66+46.44	Lt.	838.56	25.5	25.5	23.07					
70+86.60	Lt.	503.10	25.5	25.5	13.00					
71+62.54	Lt.	888.47	25.5	25.5	28.00					
74+88.81	Rt.	710.49	21.5	21.5	24.00					
75+02.69	Lt.	719.17	21.0	21.0	24.50					
78+01.88	Rt.	226.36	6.0	11.0	37.82		109.20			
78+45.02	Rt.	252.57	6.0	21.0	42.20		1683.79			
81+12.18	Rt.	395.62	9.76	19.8	40.52		438.47			
GROVE										
47+75.31	Rt.	384.38	13.4	13.4	21.68					
48+15.27	Rt.	298.82	12.6	12.6	19.06					
48+73.25	Rt.	386.89	11.0	16.0	29.70	174.30				
49+20.10	Lt.	561.76	21.0	21.0	53.00	524.92				
51+12.54	Lt.	369.36	11.0	21.0	29.63	352.84				
51+65.74	Lt.	409.21	12.2	16.6	31.31		150.57			
51+94.18	Rt.	225.61	12.9	12.9	12.00					
52+43.86	Rt.	265.56	14.3	14.3	12.00					
HILLSIDE										
44+67.95	Lt.	180.00	6.0	10.8	12.00		81.94			
46+14.67	Lt.	180.00	6.0	15.8	12.00			118.30		
47+34.70	Rt.	416.45	6.0	6.0	51.00	288.30				
47+52.41	Lt.	272.59	6.0	11.0	28.15		184.60			
48+59.52	Rt.	278.90	6.0	27.6	28.61	1066.94				
48+74.13	Lt.	285.60	6.0	6.0	29.70		751.95		7.82	
51+22.85	Lt.	294.78	6.0	6.0	31.14					
53+07.78	Lt.	204.12	6.0	38.0	16.00		293.24			
54+10.84	Lt.	225.36	6.0	11.0	19.56	100.73				
LORRAINE										
72+90.44	Lt.	215.73	9.2	9.2	15.88					
HOLYOKE										
79+86.41	Rt.	363.27	16.5	16.5	20.00					
TOTAL		21,065.64				2,508.03	3,693.76	118.30	7.82	

P= Distance from Back-of-curb to Right-of-way line
L= Distance from Back-of-curb to Limit of Driveway Paving
≠ Items included in this column include Sidewalk Removal, Paved Driveway Removal, Bus Pad Removal and Parking Lot Removal.

BRICK PAVER CROSSWALK				
STATION	SIDE	CONC. PAVING BRICK (SQ.FT.)	8" CONC. BASE (SQ.FT.)	REMARKS
49+66.63 to 50+32.63	℄	1476.11	1476.11	17th & Grove Inter.
75+89.92 to 76+92.97	℄	3244.29	3244.29	17th & Hillside Inter.
TOTAL		5,020.40	5,020.40	

EARTHWORK								
STATION TO STATION	PAVEMENT REMOVAL (SQ.YD.)	EXCAVATION SIDEWALK REMOVAL (SQ.FT.)	COMMON		COMPACTION		SELECT SOIL (CU. YD.)	REMARKS
			(CU. YD.)	VMF	95% COMPACTION (CU. YD.)	90% COMPACTION (CU. YD.)		
17TH STREET								
48+43.75 to 81+32.18	20,684.65	27,026.21						
GROVE STREET								
47+65.73 to 49+63.91	977.55	1,299.86						
50+33.69 to 52+34.25	919.42	2,163.05						
HILLSIDE STREET								
43+73.08 to 49+60.03	3,531.70	7,112.28						
50+40.04 to 55+92.15	2,914.17	5,574.21						
TOTAL	29,027.49	43,175.61	13,380		200			

SIDEWALK CONSTRUCTION (AE)						
STATION TO STATION	SIDE	4" (SQ. FT.)	WHEELCHAIR RAMP (EACH)	SIDEWALK THICKENING (L.F.)	6" Protection Curb (L.F.)	8" Protection Curb (L.F.)
17TH STREET						
48+23.41 to 49+68.87	Lt.	423.50	1		26	
48+50.19 to 49+68.13	Rt.	596.07	1		26	
50+31.13 to 53+06.08	Rt.	1126.17	2		26	
50+31.83 to 53+13.89	Lt.	1187.91	2		38	
53+52.47 to 56+34.55	Rt.	1090.39	2			
53+56.18 to 56+44.18	Lt.	1148.64	2		24	
56+86.37 to 59+73.89	Lt.	1479.09	2		30	
56+86.45 to 59+63.58	Rt.	1265.46	2			
60+12.36 to 62+96.32	Rt.	1615.77	3			40
60+15.70 to 62+89.99	Lt.	1446.52	3		24	
63+43.54 to 66+21.45	Rt.	1306.95	2			
63+44.22 to 69+55.51	Lt.	3078.97	2		12	45
66+67.91 to 69+51.35	Rt.	1417.20	2		10	
69+98.76 to 72+81.92	Lt.	1210.62	2			
70+00.14 to 72+80.49	Rt.	1401.76	2		24	
73+29.79 to 76+00.49	Rt.	1258.88	3		8	
73+30.83 to 76+06.03	Lt.	1455.91	3		34	
76+75.29 to 81+32.95	Lt.	2915.56	2	287.7		
76+71.18 to 79+74.94	Rt.	1557.40	3	191.6		
80+32.89 to 80+91.91	Rt.	494.49	1	59.3	6	
GROVE STREET						
47+65.74 to 49+48.85	Lt.	674.04				
47+86.22 to 49+50.26	Rt.	576.69				
50+49.71 to 52+42.13	Lt.	650.85				
50+50.30 to 52+37.86	Rt.	877.82				
HILLSIDE STREET						
43+73.08 to 49+42.74	Rt.	2715.26		475.2		
43+73.08 to 49+49.72	Lt.	2534.44		345.9		
50+49.90 to 56+24.27	Lt.	2917.80		450.7		
50+61.42 to 54+72.06	Rt.	2467.61		433.9		
TOTAL		40,891.77	42	2,244.3	288.0	85.0

CONCRETE PAVEMENT						
STATION/LOCATION	SIDE	8" (AE) (SQ. YD.)	9" (AE) (REINF.) (SQ. YD.)	8" (AE) (NRDJ) (SQ. YD.)	9" (AE) (NRDJ) (SQ. YD.)	REMARKS
INTERSECTIONS:						
49+50.38 to 50+48.88			643.59			17th-Grove
75+39.92 to 77+26.97			1,608.75			17th-Hillside
77+26.97 to 81+32.18					2,309.93	17th Street
43+73.08 to 49+38.91					2,875.02	Hillside
TOTAL			2,252.34		5,184.95	

REINFORCED CONCRETE VALLEY GUTTER				
STATION	SIDE	RCVG PAVEMENT (8") (SQ. YD.)	ASPHALT HOOK-UP (SQ. YD.)	REMARKS
SIDERoads:				
53+29.28	Rt.	173.14	29.16	Poplar St.
53+35.19	Lt.	171.54	28.89	Poplar St.
56+60.56	Rt.	173.01	28.82	Green St.
56+65.25	Lt.	172.63		Green St.
29+89.37	Rt.	171.16	28.84	Estelle St.
59+95.09	Lt.	172.27		Estelle St.
63+19.42	Rt.	173.33		Volutsia St.
63+20.95	Lt.	172.89		Volutsia St.
66+44.68	Rt.	172.88	29.33	Erie St.
69+74.40	Rt.	170.89		Chautauqua St.
69+75.63	Lt.	173.62		Chautauqua St.
73+04.56	Rt.	176.34	29.46	Lorraine St.
73+05.79	Lt.	174.63		Lorraine St.
79+99.94	Rt.	98.79	78.99	Holyoke St.
TOTAL		2,347.12	253.49	

MODULAR CONCRETE RETAINING WALL			
LOCATION	SIDE	UNIT (S.Y. FACE)	REMARKS
79+04.00 to 79+69.44	Rt.	120.0	Mod. Conc. Block (17th)
51+22.23 to 53+10.83	Rt.	390.0	Dry-Stack Stone (Hillside)
TOTAL			

CURB AND GUTTER, COMBINED			
STATION TO STATION	SIDE	QUANTITY (L.F.)	REMARKS
17TH STREET			
48+03.76 to 49+81.14		192.96	Type I/II
48+43.57 to 49+80.11		152.58	Type I/II
50+18.11 to 52+83.62	Rt.	280.92	Type I/II
50+19.15 to 52+89.68	Lt.	286.49	Type I/II
53+74.92 to 56+15.00	Rt.	240.08	Type I/II
53+80.69 to 56+19.60	Lt.	238.91	Type I/II
57+06.11 to 59+43.92	Rt.	237.80	Type I/II
57+10.90 to 59+49.49	Lt.	238.58	Type I/II
59+79.49	Lt.	24.16	Type I/II Estelle St.
60+10.69	Lt.	23.80	Type I/II Estelle St.
60+34.81 to 62+73.86	Rt.	239.05	Type I/II
60+40.69 to 62+75.26	Lt.	234.57	Type I/II
63+05.26	Lt.	30.12	Type I/II Volutsia St
63+36.64	Lt.	29.88	Type I/II Volutsia St
63+64.97 to 65+98.99	Rt.	234.02	Type I/II
63+66.64 to 69+30.08	Lt.	563.44	Type I/II
66+90.36 to 69+29.01	Rt.	238.64	Type I/II
69+60.09	Lt.	30.00	Type I/II Chautauqua St.
69+91.26	Lt.	30.00	Type I/II Chautauqua St.
70+19.80 to 72+59.70	Rt.	239.93	Type I/II
70+21.26 to 72+61.11	Lt.	239.89	Type I/II
72+90.24	Lt.	50.00	Type I/II Lorraine St
73+21.34	Lt.	50.01	Type I/II Lorraine St
73+50.33 to 76+10.04	Rt.	277.91	Type I/II
73+51.34 to 76+14.20	Lt.	278.94	Type I/II
76+65.16 to 79+66.70	Rt.	317.64	Type I/II
76+69.25 to 81+32.18	Lt.	481.16	Type I/II
79+86.69	Rt.	28.29	Type I/II Holyoke St.
80+32.70 to 81+32.21	Rt.	99.54	Type I/II
GROVE			
47+45.24 to 49+48.47	Rt.	203.29	Type I/II
47+65.74 to 49+47.51	Lt.	181.83	Type I/II
50+51.55 to 52+47.84	Lt.	196.35	Type I/II
50+52.44 to 52+66.74	Rt.	214.36	Type I/II
HILLSIDE			
43+73.08 to 49+39.74	Lt.	566.96	Type I/II
43+73.08 to 49+42.21	Rt.	569.17	Type I/II
50+57.70 to 56+24.27	Lt.	566.43	Type I/II
50+60.29 to 54+71.95	Rt.	411.80	Type I/II
50+77.73 to 50+96.17	Lt.	29.65	Type I/II
TOTAL		8,549.15	

SODDING (FOR INFORMATION ONLY)			
LOCATION	SIDE	SOD (S.Y.)	REMARKS
Project		10,777	

A.C. PAVEMENT		
LOCATION	A.C. Pvmt. 7" (5" bit base) (SQ. YD.)	REMARKS
17TH STREET		
48+43.75 to 49+50.38	486.75	
50+48.88 to 75+39.93	1,2451.89	
GROVE		
47+65.74 to 49+45.24	628.22	
50+54.74 to 52+34.25	628.00	
HILLSIDE		
51+00.72 to 55+92.15	2,580.40	
SIDERoads		
59+95.09	69.76	Estelle St.
63+20.95	87.77	Vol