

CONTRACT NO. 83862

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-03-BR	KANE	52	05
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

EARTHWORK CALCULATIONS - EARTH EXCAVATION

STATION	CHANGE IN DIST. (FT)	CUT. (SQ. FT)	CUT. (SQ. FT)	Gravel (SQ. FT)	TOTAL CUT (SQ. FT)	CUT VOL (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	Clay Liner (SQ. FT)	FILL (SQ. FT)	TOTAL FILL (SQ. FT)	FILL VOL (CU YD)	EARTHWORK BALANCE WASTE (+) OR Shortage (-)
576+00.00		15.0	8.2	124.0	147.2			0.0	661.0	661.0	147.2	
577+00.00	100.0	103.9	48.5	262.3	414.7	1040.6	884.5	17.8	2975.2	2993.0	6766.7	-5682.2
578+00.00	100.0	560.2	102.1	275.3	937.6	2504.3	2128.7	50.0	2087.1	2137.1	8500.2	-7371.5
579+00.00	100.0	1341.0	165.3	215.7	1722.0	4925.2	4186.4	82.1	432.3	514.4	4910.2	-723.8
580+00.00	100.0	1571.0	227.7	193.7	1992.4	6878.5	5846.7	114.3	80.8	195.1	1313.9	4532.8
581+00.00	100.0	1726.2	290.2	167.8	2184.2	7734.4	6574.2	140.4	24.5	164.9	666.7	5907.5
582+00.00	100.0	2108.1	326.4	138.4	2572.9	8809.4	7488.0	164.4	25.4	189.8	656.9	6831.1
583+00.00	100.0	2303.5	359.6	110.7	2773.8	9901.3	8416.1	187.1	20.2	207.3	735.4	7680.7
584+00.00	100.0	2150.7	303.5	276.3	2730.5	10193.1	8664.1	152.6	59.3	211.9	776.3	7887.8
585+00.00	100.0	1587.4	156.4	431.1	2174.9	9084.1	7721.5	0.0	0.0	0.0	392.4	7329.1
586+00.00	100.0	399.9	158.6	240.9	799.4	5508.0	4681.8	0.0	50.8	50.8	94.1	4587.7
587+00.00	100.0	462.7	245.4	115.9	824.0	3006.3	2555.4	0.0	1654.5	1654.5	3158.0	-602.6
588+00.00	100.0	669.4	246.6	31.4	947.4	3280.4	2788.3	0.0	332.3	332.3	3679.3	-891.0
589+00.00	100.0	427.4	255.8	31.5	714.7	3078.0	2616.3	0.0	662.4	662.4	1842.0	774.3
590+00.00	100.0	378.0	284.3	32.8	695.1	2610.7	2219.1	0.0	0.8	0.8	1228.1	991.0
591+00.00	100.0	127.1	180.6	613.6	921.3	2993.3	2544.3	0.0	1136.9	1136.9	2106.9	437.4
592+00.00	100.0	192.1	194.1	394.7	780.9	3152.2	2679.4	0.0	1386.6	1386.6	4673.1	-1993.7
593+00.00	100.0	123.3	97.9	560.9	782.0	2894.3	2480.2	0.0	1403.4	1403.4	5186.7	-2706.5
594+00.00	100.0	155.8	134.4	660.7	950.9	3209.1	2727.7	0.0	1438.7	1438.7	5263.1	-2535.4
595+00.00	100.0	90.2	91.7	351.3	533.2	2748.4	2336.1	0.0	1770.5	1770.5	5943.0	-3606.9
596+00.00	100.0	0.0	0.0	398.0	398.0	1724.4	1455.7	0.0	1943.3	1943.3	6877.4	-5411.7
597+00.00	100.0	0.0	0.0	467.1	467.1	1602.0	1361.7	0.0	1983.3	1983.3	7271.5	-5909.8
598+00.00	100.0	0.0	7.6	536.0	543.6	1871.7	1590.9	0.0	1870.1	1870.1	7135.9	-5545.0
599+00.00	100.0	307.7	284.8	304.0	896.5	2666.9	2266.9	169.5	1633.5	1803.0	6602.0	-4535.1
600+00.00	100.0	905.9	425.9	362.9	1694.7	4798.5	4078.7	196.5	1417.9	1614.4	6328.5	-2249.8
601+00.00	100.0	0.0	0.1	589.5	589.6	4230.2	3595.7	0.0	1486.1	1486.1	5760.2	-2164.5
602+00.00	100.0	176.9	161.9	591.5	930.3	2814.6	2392.4	0.0	1062.9	1062.9	4738.9	-2346.5
603+00.00	100.0	2144.2	528.3	241.5	2914.0	7119.1	6051.2	293.8	1038.7	1332.5	4435.9	1615.3
604+00.00	100.0	2759.1	654.8	333.1	3747.0	12335.2	10484.9	281.7	540.8	822.5	3990.7	8494.2
605+00.00	100.0	1777.8	606.1	236.7	2620.6	11791.9	10023.1	191.1	755.6	946.7	3276.3	6746.8
606+00.00	100.0	596.6	438.8	139.3	1174.7	7028.3	5974.1	74.9	677.5	752.4	3146.5	2827.6
607+00.00	100.0	916.9	503.4	342.4	1762.7	5439.6	4623.7	79.2	322.1	401.3	2136.5	2487.2
608+00.00	100.0	2155.9	735.6	461.1	3352.6	9472.8	8051.9	314.8	178.1	492.9	1655.9	6396.0
609+00.00	100.0	699.5	304.9	127.7	1132.1	8305.0	7059.3	129.0	171.8	300.8	1469.8	5589.5
						174751.8 CU YD	148539.0 CU YD				123899.0 CU YD	24640.0 CU YD

EARTHWORK CALCULATIONS-UNSUITABLE MATERIAL AND PGE

STATION	CHANGE IN DIST. (FT)	UNSUITABLE (SQ. FT)	P.G.E. (SQ. FT)	TOTAL UNSUITABLE (SQ. FT)	UNSUITABLE (CU YD)	P.G.E. (SQ. FT)	P.G.E. (CU YD)
576+00.00							
577+00.00	100.0					0.0	
578+00.00	100.0					0.0	
579+00.00	100.0					0.0	
580+00.00	100.0					0.0	
581+00.00	100.0					0.0	
582+00.00	100.0					0.0	
583+00.00	100.0					0.0	
584+00.00	100.0					0.0	
585+00.00	100.0					0.0	
586+00.00	100.0					0.0	
587+00.00	100.0	224.2	452.6	676.8	1253.3	452.6	838.1
588+00.00	100.0	328.4	191.1	519.5	2215.4	191.1	1192.0
589+00.00	100.0	86.2	172.5	258.7	1441.1	172.5	673.3
590+00.00	100.0	0.0	0.0	0.0	479.1	0.0	319.4
591+00.00	100.0	142.6	285.1	427.7	792.0	285.1	528.0
592+00.00	100.0	156.6	313.1	469.7	1661.9	313.1	1107.8
593+00.00	100.0	165.7	331.4	497.1	1790.4	331.4	1193.5
594+00.00	100.0	335.8	335.8	671.6	2164.3	335.8	1235.6
595+00.00	100.0		350.4	350.4	1892.7	350.4	1270.8
596+00.00	100.0		361.4	361.4	1318.2	361.4	1318.2
597+00.00	100.0		360.5	360.5	1336.8	360.5	1336.8
598+00.00	100.0		357.5	357.5	1329.6	357.5	1329.6
599+00.00	100.0	264.1	0.0	264.1	1151.1	0.0	662.0
600+00.00	100.0	208.9		208.9	875.9		0.0
601+00.00	100.0	754.0		754.0	1783.1		0.0
602+00.00	100.0	255.2		255.2	1868.9		0.0
603+00.00	100.0	42.4		42.4	551.1		0.0
604+00.00	100.0						0.0
605+00.00	100.0						0.0
606+00.00	100.0						0.0
607+00.00	100.0						0.0
608+00.00	100.0						0.0
609+00.00	100.0						0.0
					23604.9 CU YD		13005.1 CU YD

EARTHWORK CALCULATIONS-TOPSOIL

STATION	CHANGE IN DIST. (FT)	TOP SOIL CUT. (SQ. FT)	CUT VOL (CU YD)	FILL (SQ. FT)	FILLVOL (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
576+00.00		172.5		203.5		
577+00.00	100.0	55.7	422.6	351.4	1027.6	-605.0
578+00.00	100.0		103.1	386.6	1366.7	-1263.6
579+00.00	100.0		0.0	350.2	1364.4	-1364.4
580+00.00	100.0		0.0	339.6	1277.4	-1277.4
581+00.00	100.0		0.0	325.5	1231.7	-1231.7
582+00.00	100.0		0.0	308.4	1173.9	-1173.9
583+00.00	100.0		0.0	291.9	1111.7	-1111.7
584+00.00	100.0		0.0	455.3	1383.7	-1383.7
585+00.00	100.0	0.4	0.7	587.5	1931.1	-1930.4
586+00.00	100.0	211.5	392.4	419.5	1864.8	-1472.4
587+00.00	100.0	223.0	804.6	436.9	1585.9	-781.3
588+00.00	100.0	159.2	707.8	320.9	1403.3	-695.5
589+00.00	100.0	86.0	454.1	316.1	1179.6	-725.5
590+00.00	100.0	0.0	159.3	317.1	1172.6	-1013.3
591+00.00	100.0	394.5	730.6	523.1	1556.0	-825.4
592+00.00	100.0	279.1	1247.4	364.1	1643.0	-395.6
593+00.00	100.0	105.7	712.6	450.5	1508.5	-795.9
594+00.00	100.0	142.8	460.2	507.8	1774.6	-1314.4
595+00.00	100.0	266.2	757.4	399.4	1680.0	-922.6
596+00.00	100.0	0.0	493.0	277.7	1253.9	-760.9
597+00.00	100.0	109.7	203.1	346.9	1156.7	-953.6
598+00.00	100.0	94.5	378.1	416.9	1414.4	-1036.3
599+00.00	100.0	220.8	583.9	452.9	1610.7	-1026.8
600+00.00	100.0	348.3	1053.9	521.8	1805.0	-751.1
601+00.00	100.0	344.9	1283.7	739.9	2336.5	-1052.8
602+00.00	100.0	344.1	1275.9	657.3	2587.4	-1311.5
603+00.00	100.0	592.9	1735.2	515.7	2172.2	-437.0
604+00.00	100.0	229.8	1523.5	540.0	1955.0	-431.5
605+00.00	100.0	406.4	1178.1	575.5	2065.7	-887.6
606+00.00	100.0	441.5	1570.2	508.9	2008.1	-437.9
607+00.00	100.0	469.2	1686.5	675.0	2192.4	-505.9
608+00.00	100.0	496.7	1788.7	905.0	2925.9	-1137.2
609+00.00	100.0	396.5	1654.1	432.1	2476.1	-822.0
			23360.7 CU YD		55196.5 CU YD	-31835.8 CU YD

CHRISTOPHER B. BURKE ENGINEERING, LTD.
 9575 W. Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500



PLT DATE = 9/13/2006
 FILE NAME = N:\mccompany\0147\BIRD\Civil\01471_EARTHWORK2.rdb
 PLOT SCALE = 280'
 USER NAME = MUSER

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		EARTHWORK TABLE

SCALE: VERT. NTS
 HORIZ. DATE 9/13/2006
 DRAWN BY
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