

USH10 EARTHWORK

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
13+00	65.3	26.8							
13+50	69.8	30.6	125.1	69.1	125.1	1.0	69.1	1.3	56.0
14+00	91.6	42.4	149.4	87.9	274.5	1.0	156.9	1.3	117.5
14+50	97.3	21.4	174.9	76.7	449.4	1.0	233.7	1.3	215.7
15+00	120.0	7.8	201.2	35.1	650.6	1.0	268.8	1.3	381.8
15+50	128.7	0.0	230.3	9.4	880.8	1.0	278.2	1.3	602.7
16+00	144.4	0.0	252.8	0.0	1133.6	1.0	278.2	1.3	855.4
16+50	177.4	0.0	297.9	0.0	1431.5	1.0	278.2	1.3	1153.3
17+00	178.0	0.0	329.0	0.0	1760.5	1.0	278.2	1.3	1482.3
17+50	200.2	0.0	350.2	0.0	2110.7	1.0	278.2	1.3	1832.5
18+00	198.7	0.0	369.4	0.0	2480.1	1.0	278.2	1.3	2201.9
18+50	177.8	0.0	348.7	0.0	2828.7	1.0	278.2	1.3	2550.6
19+00	168.7	0.0	320.9	0.0	3149.6	1.0	278.2	1.3	2871.4
19+50	159.8	0.0	304.1	0.0	3453.7	1.0	278.2	1.3	3175.6
20+00	145.2	0.5	282.3	0.5	3736.1	1.0	278.7	1.3	3457.4
20+50	133.9	3.2	258.4	4.4	3994.5	1.0	283.1	1.3	3711.4
21+00	156.6	0.7	269.0	4.7	4263.5	1.0	287.7	1.3	3975.8
21+50	135.4	20.4	270.4	25.4	4533.9	1.0	313.1	1.3	4220.8
22+00	127.0	6.5	243.0	32.4	4776.9	1.0	345.5	1.3	4431.4
22+50	224.3	1.1	325.2	9.1	5102.1	1.0	354.6	1.3	4747.5
23+00	273.7	0.0	461.1	1.3	5563.2	1.0	355.9	1.3	5207.3
23+50	281.9	0.0	514.5	0.0	6077.7	1.0	355.9	1.3	5721.8
24+00	340.7	0.0	576.5	0.0	6654.2	1.0	355.9	1.3	6298.3
24+50	299.8	0.0	593.0	0.0	7247.3	1.0	355.9	1.3	6891.4
25+00	270.1	0.0	527.7	0.0	7774.9	1.0	355.9	1.3	7419.0
25+50	259.9	0.0	490.7	0.0	8265.7	1.0	355.9	1.3	7909.8
26+00	282.1	0.0	501.8	0.0	8767.5	1.0	355.9	1.3	8411.6
26+50	224.0	0.0	468.6	0.0	9236.1	1.0	355.9	1.3	8880.2
27+00	154.9	0.0	350.9	0.0	9587.0	1.0	355.9	1.3	9231.1
27+50	146.3	1.5	278.9	1.8	9865.9	1.0	357.7	1.3	9508.3
28+00	141.5	5.4	266.5	8.2	10132.5	1.0	365.9	1.3	9766.6
28+50	170.7	0.0	289.1	6.5	10421.6	1.0	372.3	1.3	10049.2
29+00	182.5	0.0	327.0	0.0	10748.6	1.0	372.3	1.3	10376.3
29+50	176.5	1.1	332.4	1.4	11081.0	1.0	373.7	1.3	10707.3
30+00	185.3	1.7	335.0	3.4	11416.0	1.0	377.1	1.3	11038.8
30+50	167.1	0.2	326.3	2.3	11742.3	1.0	379.5	1.3	11362.8
31+00	166.7	0.5	309.1	0.8	12051.4	1.0	380.3	1.3	11671.1
31+50	207.3	0.0	346.4	0.5	12397.7	1.0	380.8	1.3	12016.9
32+00	227.5	0.0	402.6	0.0	12800.4	1.0	380.8	1.3	12419.5
32+50	171.0	0.0	369.0	0.0	13169.3	1.0	380.8	1.3	12788.5
33+00	192.2	0.0	336.3	0.0	13505.6	1.0	380.8	1.3	13124.8
33+50	172.8	0.2	338.0	0.2	13843.6	1.0	381.0	1.3	13462.6
34+00	148.1	0.0	297.1	0.2	14140.8	1.0	381.2	1.3	13759.6
34+50	173.0	0.0	297.3	0.0	14438.1	1.0	381.2	1.3	14056.9
35+00	187.7	0.0	334.0	0.0	14772.0	1.0	381.2	1.3	14390.8
35+50	192.5	0.0	352.0	0.0	15124.1	1.0	381.2	1.3	14742.9
36+00	67.2	0.0	24.0	0.0	15148.1	1.0	381.2	1.3	14766.9
36+50	234.1	2.4	251.1	2.7	15399.2	1.0	383.9	1.3	15015.3
37+00	254.5	3.9	452.4	7.7	15851.6	1.0	391.5	1.3	15460.0
37+50	204.8	2.8	425.3	8.1	16276.9	1.0	399.6	1.3	15877.2
38+00	193.3	3.7	368.6	7.8	16645.5	1.0	407.5	1.3	16238.0
38+50	154.2	17.2	321.8	25.1	16967.3	1.0	432.5	1.3	16534.8
39+00	109.6	38.0	244.3	66.4	17211.5	1.0	498.9	1.3	16712.7
39+50	70.1	70.3	166.4	130.4	17378.0	1.0	629.3	1.3	16748.7
40+00	70.6	44.6	130.3	138.3	17508.3	1.0	767.6	1.3	16740.7
40+50	1.9	8.9	32.2	30.9	17540.5	1.0	798.5	1.3	16742.0
41+00	64.3	30.5	31.9	24.7	17572.4	1.0	823.2	1.3	16749.2
41+50	41.0	79.3	97.6	132.2	17669.9	1.0	955.4	1.3	16714.5
42+00	54.4	114.9	88.3	233.8	17758.3	1.0	1189.2	1.3	16569.0
42+50	65.4	76.5	110.9	230.4	17869.2	1.0	1419.7	1.3	16449.5
43+00	86.8	50.7	140.9	153.1	18010.0	1.0	1572.8	1.3	16437.3
43+50	85.9	64.6	159.9	138.8	18169.9	1.0	1711.6	1.3	16458.3
44+00	99.8	103.2	171.9	202.0	18341.8	1.0	1913.6	1.3	16428.2
44+50	123.9	56.7	207.1	192.5	18549.0	1.0	2106.1	1.3	16442.8
45+00	143.3	47.7	247.4	125.7	18796.4	1.0	2231.8	1.3	16564.5
45+50	134.6	17.5	257.3	78.5	19053.7	1.0	2310.4	1.3	16743.3
46+00	148.3	63.8	261.9	97.9	19315.7	1.0	2408.3	1.3	16907.3
46+50	144.8	52.7	271.4	140.3	19587.1	1.0	2548.6	1.3	17038.5
47+00	141.4	45.0	265.0	117.6	19852.1	1.0	2666.2	1.3	17185.8
47+50	144.7	49.7	264.9	114.0	20117.0	1.0	2780.3	1.3	17336.7
48+00	146.2	75.5	269.3	150.7	20386.3	1.0	2931.0	1.3	17455.3
48+50	160.3	47.8	283.7	148.4	20670.0	1.0	3079.4	1.3	17590.6
49+00	165.4	37.1	301.5	102.1	20971.5	1.0	3181.6	1.3	17789.9
49+50	168.6	73.9	309.2	133.5	21280.6	1.0	3315.1	1.3	17965.5
50+00	155.0	114.8	299.6	227.1	21580.2	1.0	3542.2	1.3	18038.0

* INCLUDES 2178 C.Y. OF ROCK EXCAVATION
EQUATION 49+23.49BK = 47+29.35AH

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
47+50	156.1	112.4							
48+00	162.8	119.5	295.3	279.1	295.3	1.0	279.1	1.3	16.1
48+50	168.3	102.5	306.6	267.3	601.9	1.0	546.4	1.3	55.5
49+00	181.0	37.3	323.4	168.3	925.3	1.0	714.8	1.3	210.5
49+50	212.6	27.2	364.4	77.6	1289.7	1.0	792.4	1.3	497.3
50+00	208.1	40.5	389.5	81.5	1679.2	1.0	873.8	1.3	805.3
50+50	187.0	137.4	365.7	214.1	2044.9	1.0	1088.0	1.3	956.9
51+00	196.7	254.1	355.2	471.3	2400.1	1.0	1559.3	1.3	840.8
51+50	219.4	249.3	385.2	606.0	2785.3	1.0	2165.3	1.3	620.1
52+00	246.3	0.0	431.1	300.1	3216.5	1.0	2465.3	1.3	751.1
52+50	230.1	238.2	441.0	286.7	3657.5	1.0	2752.0	1.3	905.5
53+00	434.5	208.7	615.4	537.9	4272.9	1.0	3289.9	1.3	982.9
53+50	403.7	165.9	776.1	450.9	5049.0	1.0	3740.9	1.3	1308.1
54+00	395.1	117.3	739.6	340.9	5788.6	1.0	4081.7	1.3	1706.8
54+50	440.6	66.0	773.8	220.6	6562.3	1.0	4302.3	1.3	2260.0
55+00	463.9	47.7	837.6	136.8	7399.9	1.0	4439.2	1.3	2960.7
55+50	469.0	42.1	863.8	108.1	8263.7	1.0	4547.3	1.3	3716.4
56+00	407.6	48.3	811.6	108.8	9075.3	1.0	4656.1	1.3	4419.2
56+50	352.7	51.0	703.9	119.5	9779.2	1.0	4775.7	1.3	5003.5
57+00	304.2	62.7	608.2	136.8	10387.4	1.0	4912.5	1.3	5474.9
57+50	252.2	54.1	515.1	140.6	10902.5	1.0	5053.1	1.3	5849.4
58+00	182.4	52.6	402.4	128.4	11304.9	1.0	5181.5	1.3	6123.4
58+50	194.4	38.8	348.9	110.1	11653.7	1.0	5291.6	1.3	6362.1
59+00	197.0	43.1	362.4	98.7	12016.1	1.0	5390.3	1.3	6625.9
59+50	216.4	40.3	382.8	100.4	12398.9	1.0	5490.6	1.3	6908.3
60+00	228.4	45.2	411.8	102.9	12810.7	1.0	5593.5	1.3	7217.2
60+50	239.6	51.3	433.3	116.1	13244.1	1.0	5709.6	1.3	7534.5
61+00	253.5	41.3	456.6	111.4	13700.7	1.0	5821.0	1.3	7879.6
61+50	239.1	43.3	456.1	101.8	14156.8	1.0	5922.8	1.3	8233.9
62+00	194.0	51.1	401.1	113.6	14557.8	1.0	6036.4	1.3	8521.4
62+50	174.1	83.3	340.9	161.8	14898.7	1.0	6198.2	1.3	8700.5
63+00	96.3	93.5	250.5	212.8	15149.2	1.0	6411.0	1.3	8738.1
63+50	78.9	86.3	162.3	216.4	15311.4	1.0	6627.4	1.3	8684.0
64+00	100.9	60.8	166.5	177.0	15477.9	1.0	6804.4	1.3	8673.5
64+50	165.1	40.0	246.3	121.3	15724.2	1.0	6925.7	1.3	8798.5
65+00	111.0	0.0	255.6	48.1	15979.8	1.0	6973.8	1.3	9005.9
65+50	49.4	63.7	148.4	76.7	16128.2	1.0	7050.5	1.3	9077.7
66+00	453.7	63.0	465.8	152.6	16594.0	1.0	7203.1	1.3	9390.9
66+50	313.5	89.2	710.4	183.3	17304.4	1.0	7386.3	1.3	9918.0
67+00	159.6	97.2	438.1	224.4	17742.4	1.0	7610.8	1.3	10131.7
67+50	121.0	16.5	259.8	136.8	18002.2	1.0	7747.6	1.3	10254.6
68+00	67.9	22.1	174.8	46.4	18177.1	1.0	7794.0	1.3	10383.1
68+50	27.9	32.8	88.7	66.0	18265.8	1.0	7859.9	1.3	10405.8
69+00	53.7	21.8	75.6	65.7	18341.3	1.0	7925.7	1.3	10415.7
69+50	53.2	25.4	99.0	56.8	18440.3	1.0	7982.5	1.3	10457.8
70+00	74.6	28.8	118.3	65.2	18558.6	1.0	8047.7	1.3	10510.9
70+50	97.7	23.1	159.5	62.5	18718.1	1.0	8110.2	1.3	10607.9
71+00	116.3	18.4	198.1	50.0	18916.3	1.0	8160.2	1.3	10756.1
71+50	107.4	19.3	207.2	45.4	19123.4	1.0	8205.6	1.3	10917.9
72+00	155.1	19.8	243.1	47.0	19366.5	1.0	8252.6	1.3	11113.9
72+50	177.3	7.5	307.8	32.8	19674.3	1.0	8285.5	1.3	11388.9
73+00	204.8	4.8	353.8	14.8	20028.1	1.0	8300.2	1.3	11727.9
73+50	202.7	0.9	377.4	6.9	20405.5	1.0	8307.1	1.3	12098.4
74+00	189.0	4.2	362.7	6.1	20768.2	1.0	8313.2	1.3	12455.0
74+50	169.4	6.3	331.8	12.7	21100.0	1.0	8325.9	1.3	12774.1
75+00	158.9	6.0	304.0	14.9	21404.0	1.0	8340.8	1.3	13063.2
75+50	171.2	2.6	305.7	10.4	21709.6	1.0	8351.2	1.3	13358.4
76+00	154.9	5.7	302.0	10.0	22011.6	1.0	8361.2	1.3	13650.5
76+50	131.7	10.5	265.4	19.5	22277.0	1.0	8380.7	1.3	13896.4
77+00	131.3	19.7	243.6	36.4	22520.6	1.0	8417.1	1.3	14103.6
77+50	138.9	21.9	250.2	50.0	22770.8	1.0	8467.1	1.3	14303.7
78+00	135.8	27.0	254.3	58.8	23025.1	1.0	8525.9	1.3	14499.2
78+50	137.3	30.3	252.8	68.9	23277.9	1.0	8594.8	1.3	14683.1
79+00	131.0	35.7	248.4	79.5	23526.3	1.0	8674.3	1.3	14852.1
79+50	111.4	39.9	224.5	91.1	23750.8	1.0	8765.4	1.3	14985.4
80+00	111.5	51.1	206.4	109.6	23957.2	1.0	8875.0	1.3	15082.3
80+50	113.6	56.4	208.5	129.4	24165.7	1.0	9004.3	1.3	15161.4
81+00	114.1	59.6	210.9	139.6	24376.5	1.0	9144.0	1.3	15232.6
81+50	111.9	54.0	209.2	136.7	24585.8	1.0	9280.7	1.3	15305.1
82+00	110.6	40.1	206.0	113.3	24791.8	1.0	9394.0	1.3	15397.8
82+50	102.0	28.3	196.8	82.4	24988.5	1.0	9476.4	1.3	15512.2
83+00	94.0	18.2	181.4	56.0	25170.0	1.0	9532.4	1.3	15637.6
83+50	83.8	11.8	164.6	36.1	25334.5	1.0	9568.4	1.3	15766.1
84+00	81.8	5.6	153.3	20.9	25487.8	1.0	9589.4	1.3	15898.4
84+50	82.1	1.7	151.7	8.8	25639.6	1.0	9598.2	1.3	16041.4
85+00	82.5	0.9	152.4	3.1	25791.9	1.0	9601.3	1.3	16190.6
85+50	83.7	1.7	153.9	3.1	25945.9	1.0	9604.4	1.3	16341.4
86+00	81.5	3.3	153.0	5.9	26098.8	1.0	9610.4	1.3	16488.4
86+50	70.4	2.8	140.6	7.3	26239.5	1.0	9617.7	1.3	16621.7
87+00	66.3	4.9	126.6	9.3	26366.1	1.0	9627.0	1.3	16739.1
87+50	76.9	4.9	132.7	11.8	26498.8	1.0	9638.8	1.3	16859.9
88+00	83.0	4.7	148.0	11.6	26646.8	1.0	9650.4	1.3	16996.4
88+50	91.9	0.5	161.9	6.2	26808.7	1.0	9656.5	1.3	17152.2
89+00	101.9	0.0	179.5	0.5	26988.2	1.0	9657.1	1.3	17331.2

SIDE ROADS EARTHWORK

HILTON ST.

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
10+50	93.5	3.5							
11+00	25.9	0.0	110.6	4.2	110.6	1.0	4.2	1.3	106.4

PEARL ST.

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
11+00	22.1	7.9							
11+50	6.9	13.9	26.9	26.2	26.9	1.0	26.2	1.3	0.7
12+00	22.5	7.0	27.3	25.2	54.2	1.0	51.4	1.3	2.8
12+50	24.3	6.6	43.3	16.4	97.5	1.0	67.8	1.3	29.7

CANTON ST.

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
9+00	47.9	0.0							
9+50	128.3	0.0	163.1	0.0	163.1	1.0	0.0	1.3	163.1
10+50	219.0	40.8							
11+00	57.5	0.0	256.0	49.2	419.1	1.0	49.2	1.3	369.9

STH29

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
20+50	117.4	29.2							
21+00	286.1	11.9	373.6	49.4	373.6	1.0	49.4	1.3	324.2
21+50	86.5	15.8	345.0	33.3	718.6	1.0	82.7	1.3	635.9
22+00	88.3	3.7	161.8	23.4	880.4	1.0	106.1	1.3	774.3
22+50	74.1	4.4	150.3	9.7	1030.7	1.0	115.8	1.3	914.9
23+00	68.0	1.6	131.6	7.2	1162.4	1.0	123.1	1.3	1039.3
23+50	57.7	1.3	116.4	3.5	1278.7	1.0	126.6	1.3	1152.2

DETENTION BASIN

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
BASIN	-	-	*7719	6655	*7719	1.0	8652	1.3	-933

* INCLUDES 550 C.Y. OF ROCK EXCAVATION

PARK & RIDE

STATION	END-AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE				MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FAC	FILL	FAC	
PARK & RIDE	-	-	*1113	2516	**1113	1.0	3271	1.3	-2158

** TOPSOIL EXCAVATION