



Excavation SECTION 1

Wall STATION	AREA (ft ²)	DIST (ft)	VOL (ft ³)
220+20	157.5	30	4640.0
220+50	133.75	30	4368.75
TOTAL			9008.75

SECTION 2

STATION	AREA (ft ²)	DIST (ft)	VOL (ft ³)
220+50	175	25	4075
220+75	151	25	3700
221+00	145	10	1515
221+10	158	60	9240.00
TOTAL			18530

SECTION 3

STATION	AREA (ft ²)	DIST (ft)	VOL (ft ³)
221+10	158	15	2458.13
221+25	169.75	25	4646.88
221+50	202	25	4978.13
221+75	186.75	25	5125.13
222+00	214	40	8560.00
TOTAL			29728.33

SECTION 4

STATION	AREA (ft ²)	DIST (ft)	VOL (ft ³)
222+00	214	25	5350.00
222+25	177.5	25	4687.50
222+50	130.75	25	3468.75
222+75	97.25	25	2681.25
223+00	89.25	90	8032.50
TOTAL			24260.00

SECTION 5

STATION	AREA (ft ²)	DIST (ft)	VOL (ft ³)
222+89.65	84.25	10.37	884.04
223+00	81.25	25	2031.25
223+25	38.75	25	968.75
223+50	14.75	25	368.75
223+75	37.5	25	937.50
223+89.63	37.5	10.37	388.13
TOTAL			6278.42

SECTION 6

STATION	AREA (ft ²)	DIST (ft)	VOL (ft ³)
223+25	97.56	35	3414.60
223+50	93.85	25	2346.25
223+80	77.55	30	2326.50
223+80	61.32	62	3802.24
224+42	36.94	62	2290.28
TOTAL			14180.87

TOTAL

SECTION	VOL (ft ³)	VOL (cy)
1	9008.75	4640
2	18530	9290
3	29728.33	17190
4	24260	12959
5	6278.42	3811
6	14180.87	2100/27 = 1851.9cy
TOTAL		108209.9cy

Item 204.30 Granular Backfill for Structures

From undercut to top of footing = 3.00'

220+18 ~ 220+50 = 32.00 Lf
 $32.00 \times 12.50 \times 3.00 = 1200.00 \text{ ft}^3$
 $- 30.00 \times 6.00 \times 2.00 = 360.00 \text{ ft}^3$
 $840.00 = 31.11 \text{ cy}$

220+50 ~ 223+80 = 330.00 Lf
 $330.00 \times 14.25 \times 3.00 = 14107.50 \text{ ft}^3$
 $- 330.00 \times 8.50 \times 2.00 = 5610.00 \text{ ft}^3$
 $8497.50 = 314.72 \text{ cy}$

223+80 ~ 224+42 = 62.00 Lf
 $62.00 \times 12.50 \times 3.00 = 2325.00 \text{ ft}^3$
 $- 60.00 \times 6.00 \times 2.00 = 720.00 \text{ ft}^3$
 $1605.00 = 59.44 \text{ cy}$

Sta	Area	Dist	Vol
Bk 220+18	48.16 ft ²	32.00'	62.07 cy
Bk 220+50	56.58	25.00'	84.16 cy
AH 220+50	85.62	25.00'	98.44 cy
220+75	96.17	50.00'	196.88 cy
221+25	105.66	25.00'	132.08 cy
221+50	108.33	25.00'	135.41 cy
221+75	103.44	25.00'	128.61 cy
222+00	100.88	25.00'	127.20 cy
222+25	98.15	25.00'	125.18 cy
222+50	95.68	40.00'	137.47 cy
Bk 222+90	89.91	35.00'	129.81 cy
AH 222+90	102.72	25.00'	129.81 cy
223+25	97.56	25.00'	124.45 cy
223+50	93.85	30.00'	141.45 cy
223+80	77.55	62.00'	112.36 cy
223+80	61.32	62.00'	112.36 cy
224+42	36.94	62.00'	112.36 cy

Seaburg-Wilmington
 Morse Retaining Wall 1/1
 Structure Excavation
 Granular Backfill for Structures
 Original Construction 6/18/02