KIF Access RR
Coast Guard Permit Application
Emory River Bridge
Fill Volume below el. 758.9'

SHEET 1 OF

COMPUTED BKE DATE 10-1-97

CHECKED DATE

North Abutment

	Area* (ft^2)	Vol (ft^3)	Vol. (CY)
754	1100 ft^2		
		3320 ft^3	123
756	2220 ft^2		
		5153 ft^3	191
758	2933 ft^2		
		2763 ft^3	102
758.9	3207 ft^2		
		Total	416 CY

*Areas taken from dwg 104W401.

South Abutment

	Area* (ft^2)	Vol (ft^3)	Vol (CY)
754	300		
		3276	122
756	2976		
		8497	315
758	5521		
		5265	195
758.9	6178		
		Total	632 CY

Total

$V_T = V_N + V_S = 416\,CY + 632\,CY$

$V_T = 1048\,CY$ say 1050 CY of earthfill

VA 11030 (WM-7-75)

KIF Access RR
Emory River Bridge
Coast Guard Permit

SHEET ____ OF ____

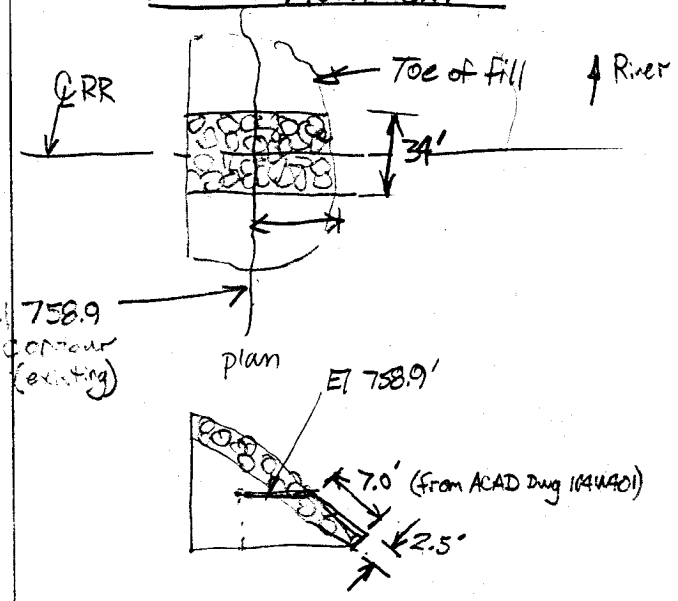
COMPUTED BKE DATE ____

CHECKED ____ DATE ____

Fill Qty's below 100 yr flood

Now, calculate volume of riprap.

North Abutment



$V_{NRR} = lwh$
$V_{NRR} = (34')(7')(2.5')$
$V_{NRR} = 595\ ft^3$ of riprap
$V_{NRR} = 22\ CY$

South Abutment

$V_{SRR} = lwh$
$V_{SRR} = (34')(12')(2.5')$
$V_{SRR} = 1020\ ft^3$
$V_{SRR} = 38\ CY$

Total

$V_{TRR} = V_{NRR} + V_{SRR} = 22CY + 38CY$

$V_{TRR} = \underline{60\ CY}$ of riprap

VA 11030 (WM-7-75)