

Name \_\_\_\_\_  
 Legal Desc. \_\_\_\_\_  
 County \_\_\_\_\_  
 Ident. No. \_\_\_\_\_

Before any investigation or construction activity, the excavator is responsible for calling Kansas One-Call at 800-344-7233 (800-DIG-SAFE) or 811.

Location Map

Scale 1" = \_\_\_\_\_

Layout by \_\_\_\_\_ Date \_\_\_\_\_  
 Designed by \_\_\_\_\_ Date \_\_\_\_\_  
 Checked by \_\_\_\_\_ Date \_\_\_\_\_  
 Approved by \_\_\_\_\_ Date \_\_\_\_\_

**Design and Layout**

Diversion No.			
Drainage Area, DA (acres)			
Hydrologic Soil Group			
Weighted Curve Number, CN			
Rainfall (inches) ( 10 -year, 24-hour)			
Runoff, R (inches)			
Sediment, S (inches)			
Runoff + Sediment (inches)			
Required Storage Area (cubic feet/foot) <sup>1/</sup>			
Land Slope at Basin, LS (%)			
Design Slopes	Cut Slope, CS	:1	:1
	Front Slope, FS	:1	:1
	Back Slope, BS	:1	:1
Channel Width, CW (feet)			
Top Width, TW (feet)			
Block Height, BH (feet)			
Cut Depth, dc (feet)			
Storage Depth, ds (feet) <sup>2/</sup>			
Freeboard, fb (feet)			
Design Construction Height, CH (feet) <sup>3/</sup>			

<sup>1/</sup> Required Storage Area =  $\frac{DA \times (R + S) \times 3630}{\text{Length}}$

<sup>2/</sup> ds = dc + BH

<sup>3/</sup> CH = (ds + fb) x 1.10

<sup>4/</sup> Volume = (Length x Area) / 27



**Estimated Volume Computations**

Diversion No.	Length (feet)	Fill	
		Area (cubic feet/foot)	Volume <sup>4/</sup> (cubic yards)
	Line		
	Block		
	Line		
	Block		
Cut/Fill (C/F) Ratio _____		Total Fill _____	



