USDA
NRCS

Diversion - 362 (Gradient)

KS-ENG-8
Rev. 1/06

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).

N

Location Map Scale 1" = _____

Layout by _____ Date _____

Designed by _____ Date _____

Checked by _____ Date _____

Approved by _____ Date _____

Design

Diversion No. and Reach			
Drainage Area (acres)			
Hydrologic Soil Group			
Weighted Curve Number, CN			
Discharge, Q (cfs) (10 -year, 24-hour)			
Channel Design Grade (%)			
Channel - farmed or vegetated			
Veg. Retardance or "n" (capacity~stability)			
Land Slope (%)			
Design Slopes	Cut Slope	:1	:1
	Front Slope	:1	:1
	Back Slope	:1	:1
Channel Width (feet)			
Top Width of Ridge (feet)			
Velocity (feet/second)			
Hydraulic Flow Depth (feet)			
Freeboard (feet)			
Design Construction Height (feet)			

Layout

Diversion No. and Reach		
Station	Reading	Reading

Name _____ Legal Desc. _____

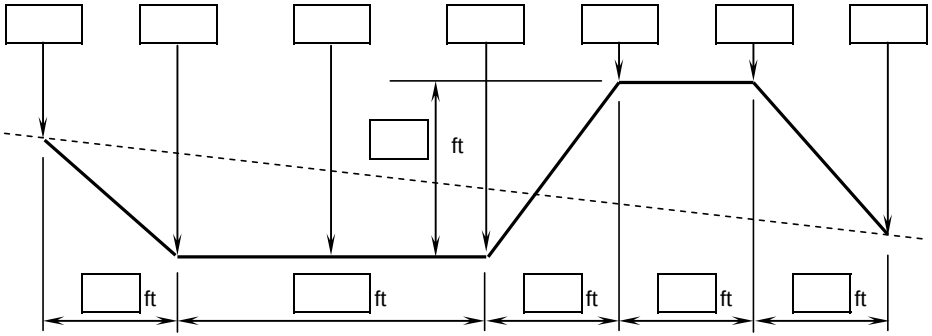
Checkout

Channel and Ridge Profiles

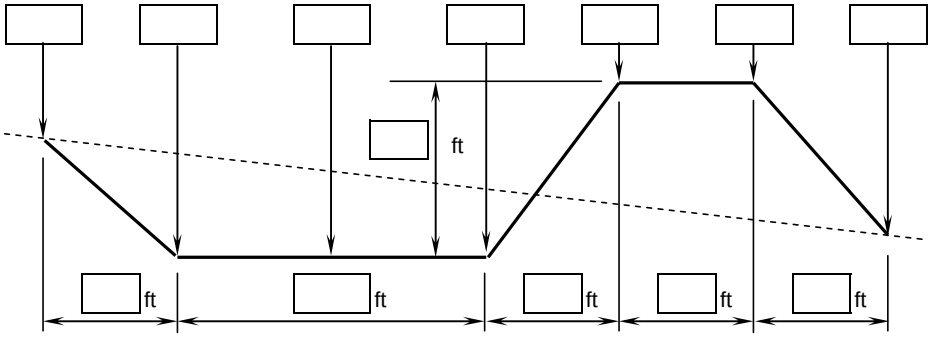
Station	Diversion No. and Reach					Station	Diversion No. and Reach				
	Channel Reading			Ridge Reading	Height (feet)		Channel Reading			Ridge Reading	Height (feet)

Cross Section

Diversion No. and Reach _____ Station _____



Diversion No. and Reach _____ Station _____



Type of Measuring Device _____

Calibration Factor _____ Remarks _____

Div. No. & Reach	Counter Reading	Length (feet)
Total Const. Length		

Checkout Volume Computations

Diversion No. & Reach	Station	to Station	Length (feet)	Fill	
				Area [1/] (cubic feet/foot)	Volume [2/] (cubic yards)
		C/F Ratio _____		Total Fill	

[1/] Area from the Design [2/] Volume = (Length x Area) / 27

Checkout by _____ Date _____ Audited by _____ Date _____