U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

WATERWAY DATA SHEET

TX-ENG-38-E
7/02

SWCD:_____ **FIELD OFFICE:**_____
COOPERATOR:_____ **ENG. JOB CLASS:**_____ **LOCATION:**_____
PROGRAM:_____ **CONTRACT NO.:**_____ **CIN:**_____ **FIELD NO.:**_____ **WATERWAY NO.:**_____

DESIGN	Capacity	Stability	
Station			
Drainage Area, Ac.			
Kind of Vegetation			
Discharge, q, cfs			
Type (Trap/Para)			
Side Slope, Ratio			
Freeboard (Fb), Ft.			
Channel Slope,%			
Design Depth of Flow (D), Ft. ...			
Bottom Width, Ft.			
Wetted Perimeter, Ft.			
Area, Cross Sectional @ D, Sq ft.			
Hydraulic Radius, Ft.			
Velocity, Ft./Sec.		1/	
Discharge Flow rate, cfs			
N value (Mannings).....			
Ci value			
Retardance Class			Show North Arrow.
Top Width at D, Ft.			Sketch showing location of waterway on farm.

Construction Dimensions Computations:

Depth (Fb + D):_____Ft. Top Width (at Fb + D)_____Ft. Total Length_____Ft.
Ave Width:_____Ft. Area:_____Acres Average Vegetation Width:_____Ft. Area:_____Acres

Designed by:_____ Date:_____
Design Approved by:_____ Date:_____
Using Chart No.:_____ Computations checked by:_____ Date:_____

Remarks:_____
_____Constr. Specs. Attached:_____
Survey Party:_____ Date:_____
ATTACHMENTS NEEDED: Hydrology Worksheet (TX-ENG-66, or EFM2 printout) Construction Specs., S-412 and Construction Data Sheet (TX-ENG-38a)
1/ Mean Velocity, Check for Stable Max. Velocity

PROFILE

Station	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
Channel																										
Ridge																										
Height																										

CROSS SECTION AT STATION_____ **CROSS SECTION**

	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100
Distance	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
Rod																										
Datum																										
Diff.																										

NOTE: Attach additional profile or cross section information as needed.

CONSTRUCTED LENGTH _____ Ft. AVERAGE WIDTH _____ FT.

REMARKS_____

THIS PRACTICE MEETS SPECIFICATIONS. SIGNED:_____ DATE:_____

CROSS SECTION AT STATION_________________ **CROSS SECTION**

	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100
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