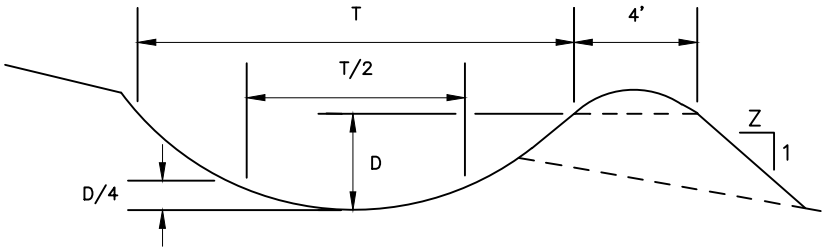

T=TOP WIDTH AT TOTAL DEPTH
D=TOTAL DEPTH
Z= SIDE SLOPE

PARABOLIC CROSS SECTION

CONSTRUCTION DETAILS

DIVERSION NUMBER	REACH		CHANNEL SLOPE(%)	TOP WIDTH(T) FEET	TOTAL DEPTH(D) FEET	SIDE SLOPE(Z)	LENGTH FEET
	FROM	TO					

NOTES AND SPECIFICATIONS:

1. TOPSOIL SHALL BE STOCKPILED AND RESPREAD ON THE DIVERSION WHEN NEEDED TO FACILITATE REVEGETATION.
2. RIDGE COMPACTION AND ANY PIPE BACKFILL COMPACTION THROUGH THE RIDGE SHALL BE IN ACCORDANCE WITH WI CONSTRUCTION SPECIFICATION 3.
3. MAINTENANCE ITEMS – REPAIR AREAS OF DAMAGED VEGETATION. MAINTAIN THE DIVERSION CHANNEL CAPACITY AND RIDGE HEIGHT.

United States Department of Agriculture
Natural Resources Conservation Service

PARABOLIC DIVERSION

CLIENT:
COUNTY:

Date
Designed
Drawn
Checked
Approved

File Name WI-403B
Date 07/14
Sheet of

DESIGN DATA

DIVERSION SOILS[1] _____ MAXIMUM PERMISSIBLE VELOCITY = _____FPS

DIVERSION NUMBER	REACH		D.A. IN ACRES	DESIGN FREQ.	Q (CFS)	RET[2] (VEL)	RET[2] (CAP)	DESIGN V (FPS)	CHANNEL SLOPE (%)	TOP WIDTH(T) FEET	SIDE SLOPES (Z)	FLOW DEPTH (FT.)	FREE-BOARD (FT.)	SETTLE-MENT[3] (FT.)	TOTAL DEPTH (D)(FT.)
	FROM	TO													

1. UNIFIED SOIL CLASSIFICATION SYSTEM
2. RET (VEL) IS THE RETARDANCE FOR DETERMINING DESIGN VELOCITY (NORMALLY "D").
   RET (CAP) IS THE RETARDANCE FOR DETERMINING THE FLOW DEPTH FOR CAPACITY (NORMALLY "B" OR "C").
3. SETTLEMENT SHALL BE A MINIMUM OF TEN (10) PERCENT OF THE FILL HEIGHT.

SEEDING AND CONSTRUCTION CHECK

DESIGN DATA					AS-BUILT DATA						
DIVERSION NUMBER	REACH		WIDTH TO VEGETATE (FT.)	AREA (ACRES) (SQ.YDS.)	SEEDING IN (ACRES)	SODDING IN (SQ.YDS.)	CHANNEL SLOPE (%)	TOP WIDTH(T) FEET	SIDE SLOPES (Z)	TOTAL DEPTH(D) (FT.)	LENGTH (FT.)
	FROM	TO									
				TOTALS						TOTAL	

THIS PRACTICE MEETS NRCS STANDARDS, SPECIFICATIONS, AND CONSTRUCTION PLANS.

_____ SIGNATURE & TITLE

_____ DATE