

## **GENERAL NOTES:**

1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.

6

## **NOTES FOR DESIGNER:**

( DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

DESIGN LIMITATIONS:

1. SOILS IN BANK AND BOTTOM OF SWALE SHOULD NOT BE OVER COMPACTED TO PROMOTE INFILTRATION.

- SITING CRITERIA:
- 1. SWALES WORK BEST ON THE LOW SIDE OF A TOPOGRAPHIC FEATURE.

DESIGN CRITERIA:

- 1. CHANNEL VELOCITY SHALL AVOID RATES THAT WOULD ERODE VEGETATED BANKS AND/OR EXCEED MANUFACTURER RECOMMENDATIONS FOR SOIL EROSION CONTROL MATERIAL.
- 2. RECOMMENDED MAXIMUM LONGITUDE SLOPE 5%.
- INCORPORATE CHECK DAMS AT REGULAR INTERVALS. 3.
- 4. ENSURE CENTER OF SWALE IS LOWER THAN OUTSIDE EDGES.
- 5. CHECK SOIL INFILTRATION. OPTIMUM RANGE IS >0.5" OF INFILTRATION PER HOUR.
- 6. PROVIDE APPROPRIATE EROSION AND FLOW DISSIPATERS AT THE ENTRY AND EXIT POINTS OF SWALE.
- 7. NATIVE SOILS/AMENDED SOILS SHALL BE SUITABLE FOR SUPPORTING VEGETATIVE COVER.
- 8. VEGETATION SHOULD BE DROUGHT TOLERANT, AND ABLE TO WITHSTAND PERIODIC INUNDATION.
- 9. IN AREAS WHERE APPROPRIATE, GRASS SWALES MAY BE USED. PROVIDE SUPPLEMENTAL IRRIGATION TO AREA.
- 10. SWALES SHOULD BE DESIGNED TO BLEND WITH THE CONTEXT OF THE SURROUNDING LANDSCAPE.

## CONSTRUCTION CRITERIA:

- 1. SEED SWALE BOTTOM AND SIDE SLOPES PRIOR TO STABILIZATION IN ACCORDANCE WITH LANL REQUIREMENTS.
- 2. DO NOT MOW WITH HEAVY EQUIPMENT OR IN AREAS OF LESS THE 4" TO 6" OF SOIL DEPTH.
- 3. IDENTIFY APPROPRIATE MATERIALS AND HOLD POINTS FOR INSPECTION AND APPROVAL DURING CONSTRUCTION. 4. PROVIDE ACCESS FOR MAINTENANCE.

				REVISIONS PER [DCF] [DRN] [FCR]					
0				INITIAL ISSUE FOR [DCF-XYZ]					
NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	СНКД	SUB	APP

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	DRAWN	E. ATENCIO					
		DESIGN T. LEMKE					
		CHECKED	S. RAEL				
TA-XX		BLDG XX	XX	DATE	02-10-20		
SUBMITTED DISCIPLINE POC: JOHN O'BRI	EN	APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH					
A			SHEET	-	1		
• LOS Alamos	PO Box 1663 Los Alamos, New Mexico 87545			4 .	DF <b>16</b>		
D.C.: UNCLASSIFIED	REVIEWER: DONALD YAR		DATE	:			
PROJECT ID	DRAWING NO				REV		
CHAPTER 3 ST-G20GEN-1.4							