

	HEET JMBER					
 Repair all rills or gullies and properly compact prior to installation. Install fiber rolls along slope contours. For any 20' section of fiber roll, do not allow the fiber roll to vary more than 5% from level. Stake fiber rolls in place with 1" x 1" or 1" Ø wood stakes. Space stakes 4' o.c. max. Stake fiber rolls at each end. Drive stakes into undisturbed soil at least 12" deep. Expose stakes 2" above top of fiber roll. For fiber rolls on bare soil, construct trenches parallel to the contour. Place fiber rolls in continuous contact with trench bottom and sides. Tamp soil backfill against upstream side of fiber roll to ensure storm water is forced to flow through fiber roll rather than under it. Fiber rolls may be overlapped according to the 						
 Repair all rills or gullies and properly compact prior to installation. Install fiber rolls along slope contours. For any 20' section of fiber roll, do not allow the fiber roll to vary more than 5% from level. Stake fiber rolls in place with 1" x 1" or 1" Ø wood stakes. Space stakes 4' o.c. max. Stake fiber rolls at each end. Drive stakes into undisturbed soil at least 12" deep. Expose stakes 2" above top of fiber roll. For fiber rolls on bare soil, construct trenches parallel to the contour. Place fiber rolls in continuous contact with trench bottom and sides. Tamp soil backfill against upstream side of fiber roll to ensure storm water is forced to flow through fiber roll rather than under it. Fiber rolls may be overlapped according to the 						
 20' section of fiber roll, do not allow the fiber roll to vary more than 5% from level. 3. Stake fiber rolls in place with 1" x 1" or 1" Ø wood stakes. Space stakes 4' o.c. max. Stake fiber rolls at each end. 4. Drive stakes into undisturbed soil at least 12" deep. Expose stakes 2" above top of fiber roll. 5. For fiber rolls on bare soil, construct trenches parallel to the contour. Place fiber rolls in continuous contact with trench bottom and sides. Tamp soil backfill against upstream side of fiber roll to ensure storm water is forced to flow through fiber roll rather than under it. 6. Fiber rolls may be overlapped according to the 						
 1" Ø wood stakes. Space stakes 4' o.c. max. Stake fiber rolls at each end. Drive stakes into undisturbed soil at least 12" deep. Expose stakes 2" above top of fiber roll. For fiber rolls on bare soil, construct trenches parallel to the contour. Place fiber rolls in continuous contact with trench bottom and sides. Tamp soil backfill against upstream side of fiber roll to ensure storm water is forced to flow through fiber roll rather than under it. Fiber rolls may be overlapped according to the 	20' section of fiber roll, do not allow the fiber					
 12" deep. Expose stakes 2" above top of fiber roll. 5. For fiber rolls on bare soil, construct trenches parallel to the contour. Place fiber rolls in continuous contact with trench bottom and sides. Tamp soil backfill against upstream side of fiber roll to ensure storm water is forced to flow through fiber roll rather than under it. 6. Fiber rolls may be overlapped according to the) wood stakes. Space stakes 4' o.c. max.					
parallel to the contour. Place fiber rolls in continuous contact with trench bottom and sides. Tamp soil backfill against upstream side of fiber roll to ensure storm water is forced to flow through fiber roll rather than under it. 6. Fiber rolls may be overlapped according to the	deep. Expose stakes 2" above top					
— Install 3 - 9" Ø min. x 10' fiber rolls around culvert inlets						
Culvert inlet with flared end section						
FIBER ROLL AT CULVERT INLET						
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	FEDERAL HIGHWAY ADMINISTRATION					
12" min. U.S. CUSTOMARY DETAIL FIBER ROLL						
L						
DETAIL APPROVED FOR USE 01/2011 DETAIL NO SCALE REVISED: 08/2014 C157-						



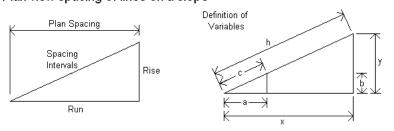
NOTES TO THE DESIGNER Last Updated: August 2014

General Information

- 1. *Appropriate Applications*. Fiber rolls placed on slopes help slow, filter, and spread overland flows. Fiber rolls reduce the effects of long or steep slopes. Fiber rolls are suitable for the following:
 - Along the toe, top, face, and at grade breaks of exposed and erodible soils
 - Can be used with other erosion control devices, including mulch, bonded fiber matrix, etc. Use RECP in the same area as wattles only on rare occasions.
- 2. *Limitations*. Fiber rolls are not effective on bare soils unless trenched.

3. Layout Guidance.

- Fiber rolls are installed along the contour. Estimate proposed contours or generate proposed contours using GEOPAK. To draw the wattles along the contours, use the D&C manager.
- The fiber roll spacing shown in the drawing is based on a slope distance. Remember to adjust for the horizontal distance when drawing fiber rolls into the plan view. See drawing below. Plan view spacing of lines on a slope



b	а	h	х	
Rise	Run	Spacing Intervals	Plan Spacing	
1	1	15	10.607	
1	2	30	26.833	
1	3	45	42.691	
1	4	60	58.209	
1	5	60	58.835	
1	6	60	59,184	

• Recommended fiber roll spacing is shown in the drawing and can be used for most applications. Consider adjusting spacing based on soil conditions (e.g. for soft loamy soils, place rows closer together. For hard, rocky soils, place the rows farther apart).

Applicable SCRs

None

Typical Pay Item Used

• 15705-1400 Soil erosion control, Fiber roll [LNFT]

Updates

January 2011

• New Detail drawing

August 2014

- Updated for FP-14
- Updated border