CROSS SECTION

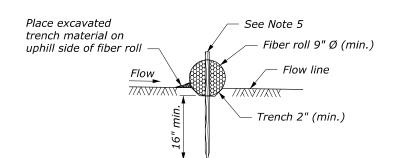
V-ditch design shown. Check dam installation details are similar for flat-bottom ditches

Filter rock

V-DITCH CROSS SECTION

NOTE:

- 1. Construct check dams from fiber rolls, filter rock, or gravel bags as approved by the CO, to meet the functional requirements of the check dam device.
- 2. Repair all rills or gullies and properly compact prior to
- 3. Install check dams in ditches perpendicular to the flowline.
- 4. Stake fiber rolls in place with $1\frac{1}{8}$ -inch x $1\frac{1}{8}$ -inch wood stakes. Drive stakes at each end of the fiber roll and at 2-foot (max.) spacing.
- 5. Drive stakes into undisturbed soil of trench bottom. Expose stakes 2-inches (min.) above top of fiber roll.
- 6. Provide sufficient length to prevent water from flowing around the ends of the fiber roll.
- 7. Adjust check dam spacing based on site-specific conditions.

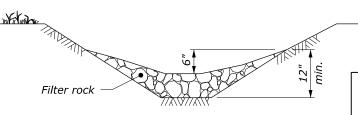


FIBER ROLL STAKING DETAIL

FIBER ROLL		
CHECK DAM SPACING*		
(See Note 7)		
DITCH	CHECK DAM	

DITCH GRADE	CHECK DAM SPACING (max (FT)
2%	150
3%	100
4%	80
5%	60

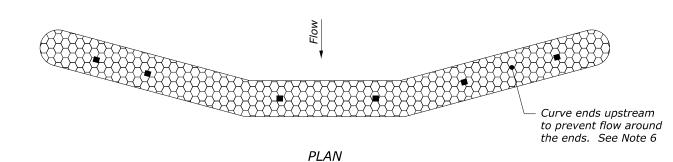
* Spacing calculated based on 9" Ø minimum fiber roll. Do not use fiber roll check dams on ditch grades steeper than 5%.



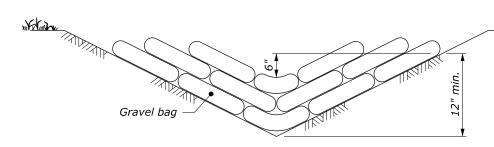
FLAT-BOTTOM DTICH
CROSS SECTION

FILTER ROCK CHECK DAM SPACING (See Note 7)			
DITCH GRADE	CHECK DAM SPACING (max.) (FT)		
2%	150		
3%	100		
4%	80		
5%	60		
6%	50		

FILTER ROCK CHECK DAM



FIBER ROLL CHECK DAM



CROSS SECTION

GRAVEL BAG CHECK DAM

GRAVEL BAG
CHECK DAM SPACING*
(See Note 7)

(500 11000 /)	
DITCH GRADE	CHECK DAM SPACING (max. (FT)
2%	150
3%	100
4%	80
5%	60
6%	50

* Do not use gravel bag check dams on ditch grades steeper than 6%.

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION OFFICE OF FEDERAL LANDS HIGHWAY

WFLHD DETAIL

CHECK DAM MODERATE GRADES

DETAIL APPROVED FOR USE 7/2016 REVISED:

NO SCALE

DETAIL W157-15