# GENERAL NOTES.
# EROSION EELS USED IN CHECK DAM APPLICATIONS
## (SESC-32)

1. EROSION EELS USED IN CHECK DAM APPLICATIONS SHALL HAVE SPECIFICATION MIXTURE 1.0.

a. MIXTURE SPECIFICATION 1.0.A FILTER MIXTURE COMPRISED OF 100% SHREDDED RUBBER THAT HAS BEEN WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE MATERIAL SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OR +/-3/4".

2. EROSION EELS SHALL BE MANUFACTURED FROM A WOVEN GEOTEXTILE COVERING WITH INTERIOR FILTER MATERIALS SUCH AS 100 % SHREDDED RUBBER (MIXTURE SPECIFICATION 1.0.), 50% SHREDDED RUBBER/50% ASSHTO-CERTIFIED WOOD CHIPS (MIXTURE SPECIFICATION 1.1.), OR 1/3 SHREDDED RUBBER: 1/3 AASHTO-CERTIFIED WOOD CHIPS: 1/3 RECYCLE SYNTHETIC FIBERS (MIXTURE SPECIFICATION 1.2.).

3. LENGTHS OF EROSION EELS SHALL BE EITHER A NOMINAL +/- 10 FT. OR +/- 4.5 FT. NOMINAL DIAMETER SHALL BE +/- 9.5".

4. EROSION EELS CAN BE PLACED AT THE TOP, ON THE FACE, OR AT THE TOE OF SLOPES TO INTERCEPT RUNOFF, REDUCE FLOW VELOCITY. RELEASE THE RUNOFF AS SHEET FLOW AND PROVIDE REMOVAL OF SEDIMENT FROM THE RUNOFF.

5. EROSION EELS SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPE, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BERM, AROUND INLET STRUCTURES, IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND RETAIN SEDIMENT, OR AS A GENERAL FILTER FOR ANY DISTURBED SOIL AREA.

6. NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS.

7. PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLODS, AND WOODY VEGETATION, EROSION EELS CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.

8. RAKE BED AREA WITH A HAND RAKE OR BY DRAG HARROW.

9. DO NOT PLACE EEL DIRECTLY OVER RILLS AND GULLIES UNTIL AREA HAS BEEN HAND-EXCAVATED AND RAKED TO PROVIDE A LEVEL BEDDING SURFACE. ALL SURFACES SHALL BE UNIFORMLY COMPACTED FOR MAXIMUM SEATING OF EELS IN PLACE.

10. FOR LOCATIONS WHERE EELS WILL BE PLACED IN CONCENTRATED FLOWS (SUCH AS CHECK DAMS, INLET PROTECTION) AND FOR PERIMETER CONTROLS AT PRIMARY DISCHARGE LOCATIONS, BED THE EELS IN A JUTE MESH CRADLE PER THE DETAILED DRAWINGS.

11. FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE AREA SHALL BE 10 ACRES.

12. IF MORE THAN ONE EROSION EEL IS PLACED IN A ROW, THE EELS SHALL BE OVERLAPPED A MINIMUM OF 12" TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. COMPRESS THE TWO EELS OF THE OVERLAP TIGHTLY TOGETHER EITHER BY HAND OR MANUFACTURER-APPROVED MECHANIZED MEANS.

13. WHEN USED IN DITCHES AS A CHECK DAM, EROSION EELS SHALL BE INSTALLED PER MANUFACTURER'S DETAILS.

14. FOR CHECK DAM APPLICATIONS, EROSION EELS SHALL BE PLACED PERPENDICULAR TO THE FLOW OF THE WATER. EROSION EELS SHALL CONTINUE UP THE SIDES SLOPES A MINIMUM OF 3 FT. ABOVE THE DESIGN FLOW DEPTH.

15. EROSION EELS SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION HAS COMPLETELY DEVELOPED OR UNTIL THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN EXHAUSTED (REQUIRING REPLACEMENT WITH NEW EELS).

16. ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE MINIMUM WEIGHT OF 1.25 LBS/FT. STEEL T-POSTS (5 TO 7 FT. LENGTHS) ROLLED FROM HIGH CARBON STEEL. POSTS SHOULD BE HOT-DIP GALVANIZED OR COATED WITH A WEATHER-RESISTNANT PAINT FOR STEEL APPLICATION. POST SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE.

17. PLACE T-POSTS THROUGH HANDLE OF BAGS. DO NOT DRIVE POSTS THROUGH EROSION EELS. T-POST ARE TO BE EMBEDDED A MINIMUM OF 2 FT. INTO GROUND.