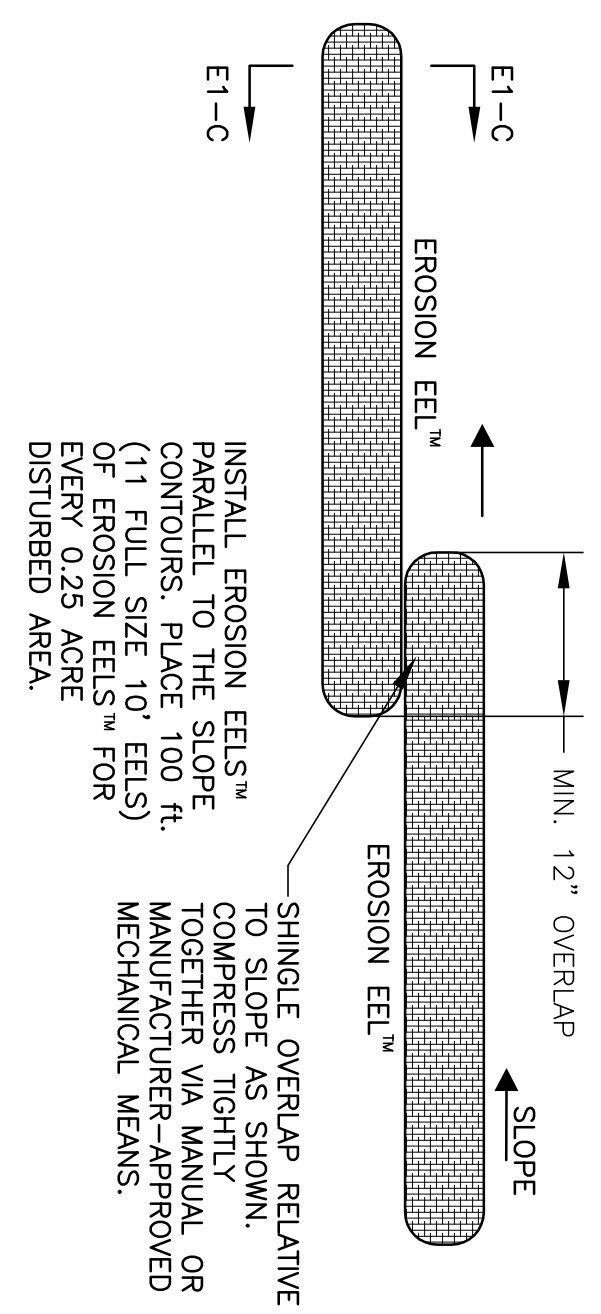


NOTE:
ALL EROSION EELS™ USED FOR PERIMETER CONTROL SHALL USE MIXTURE SPECIFICATIONS 1.1 AND 1.2.

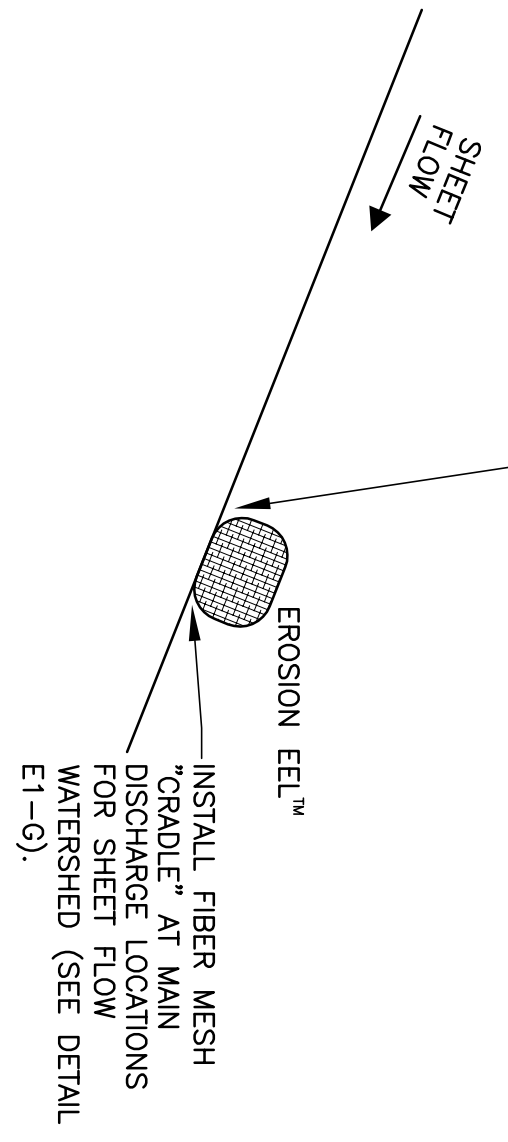
DETAIL E1-A: EROSION EELS™
N.T.S.

SHEET FLOW



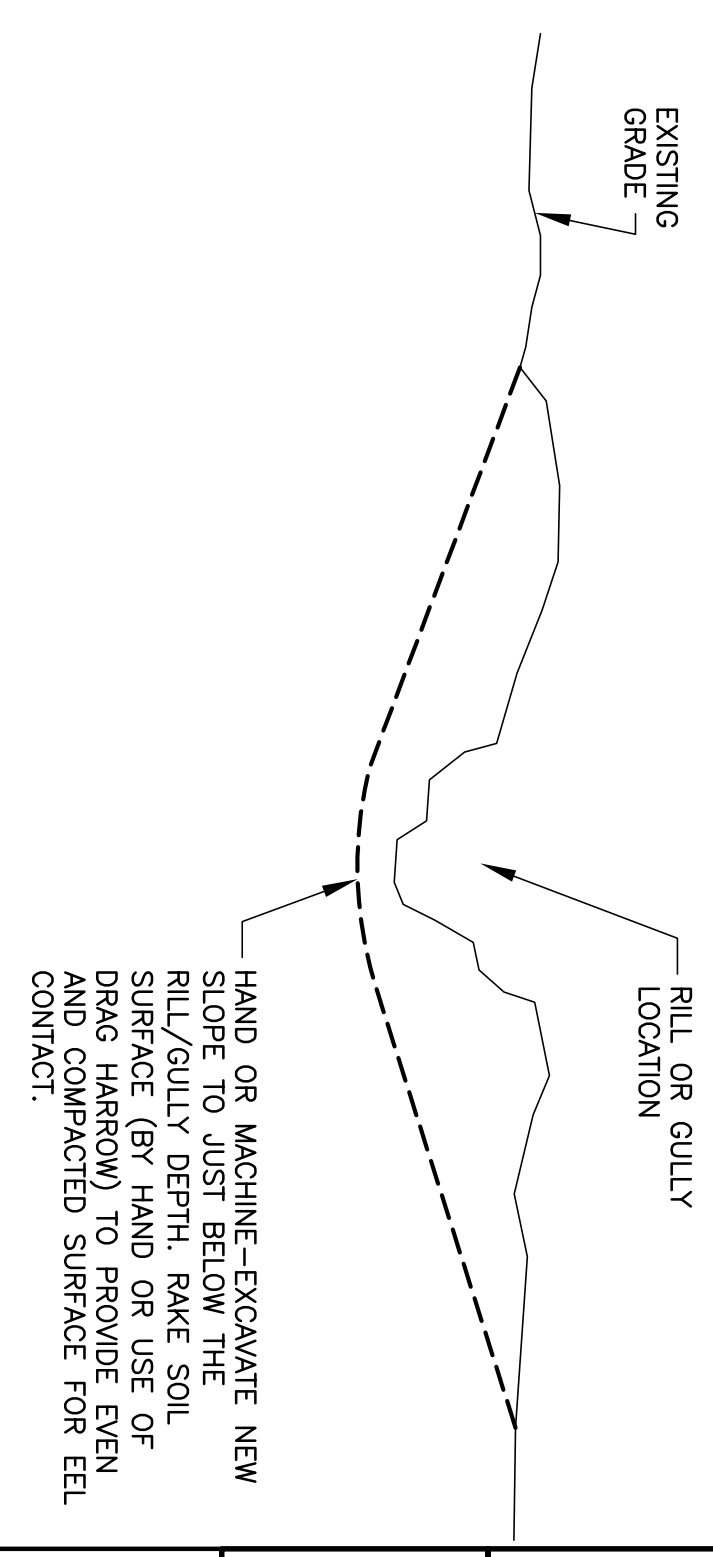
DETAIL E1-B: INTERCEPTING SHEET FLOW PERPENDICULAR TO FLOW PATH - PLAN VIEW

PLACE EEL ON GROUND SURFACE THAT HAS BEEN PREPARED BY REMOVING LARGE DEBRIS AND MAKING SURFACE PRIOR TO EEL PLACEMENT (SEE DETAIL E1-D).



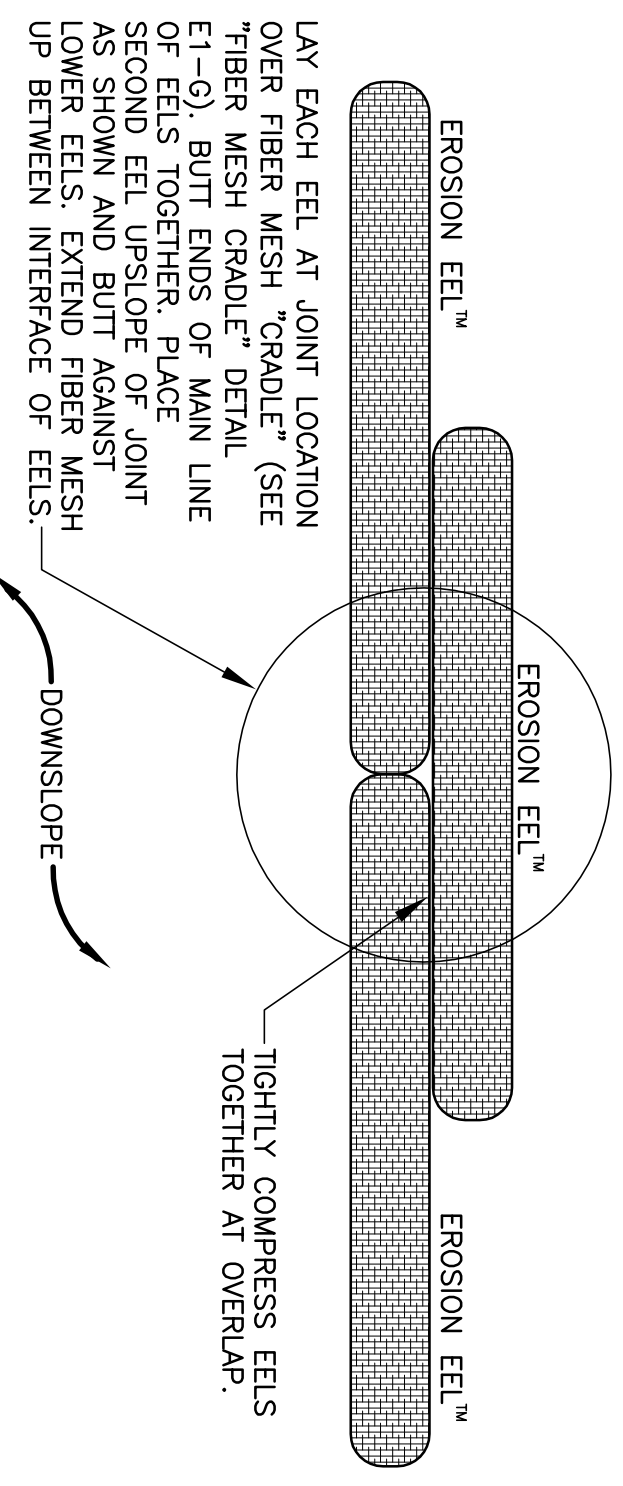
DETAIL E1-C: INTERCEPTING SHEET FLOW PERPENDICULAR TO FLOW PATH - PLAN VIEW

INSTALLATION OVER RILL/GULLEY AREAS



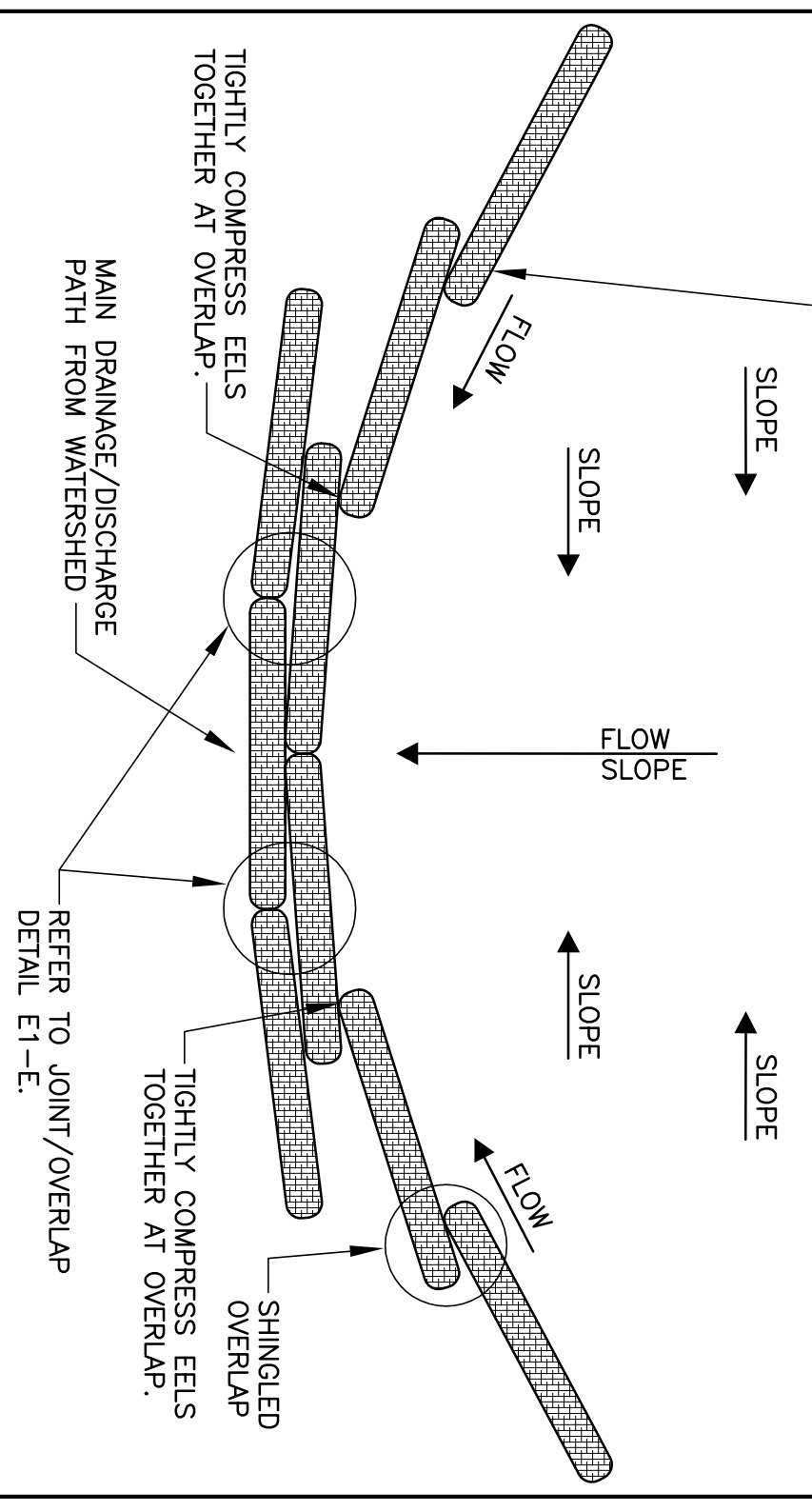
DETAIL E1-D: CROSS-SECTION VIEW
N.T.S.

NOTE:
MINIMIZE THE PLACEMENT OF JOINTS AT THE INVERT OF THE MAIN DRAINAGE PATH FROM THE WATERSHED POSITION JOINTS UPSLOPE OF THE MAIN INVERT AREA



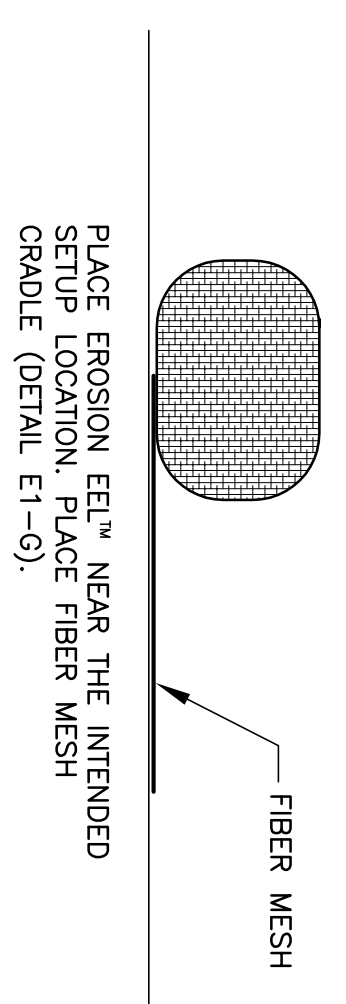
DETAIL E1-E: PLAN VIEW - OVERLAP/JUNCTION DETAIL NEAR DISCHARGE POINTS FROM WATERSHED
N.T.S.

SHINGLED OVERLAPS - TYPICAL FOR EELS USED AS DIVERGING BERMS TO DIRECT FLOW.

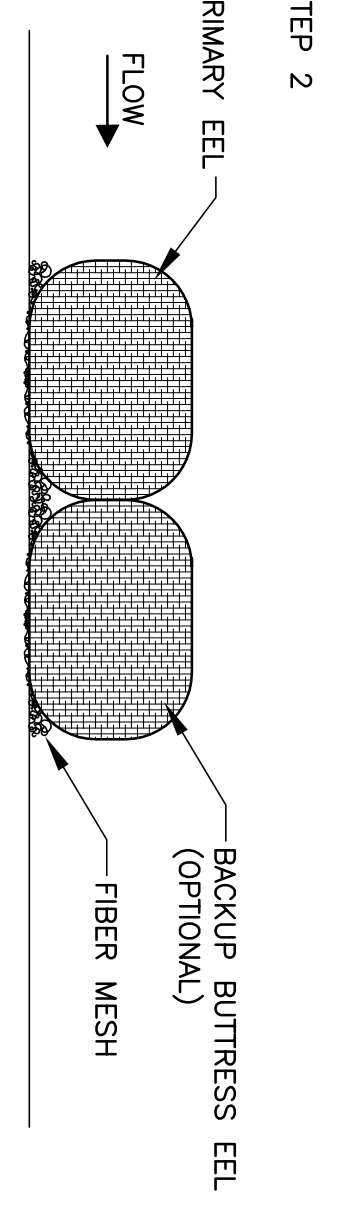


DETAIL E1-F: PLAN VIEW - TYPICAL ARRANGEMENT OF EELS USED FOR PERIMETER CONTROL
N.T.S.

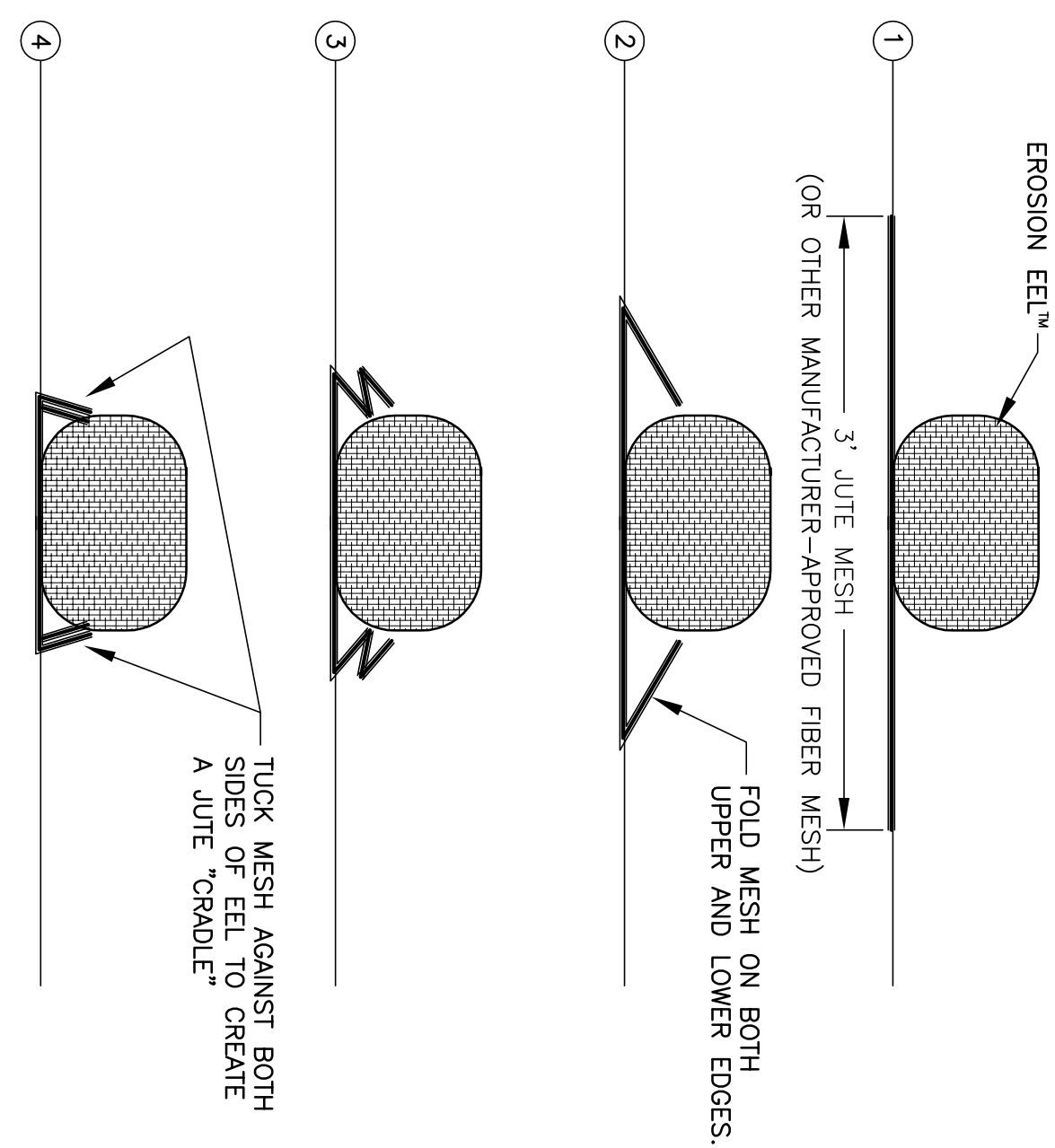
STEP 1



STEP 2



DETAIL E1-K: STABILIZING PROCEDURE FOR EROSION EEL PLACED OVER HARD SURFACE (PAVED, ROCK, ETC.)
N.T.S.



DETAIL E1-G: SECTION - FIBER MESH "CRADLE"
N.T.S.

TUCK MESH AGAINST BOTH SIDES OF EEL TO CREATE A "CRADLE"

GENERAL NOTES:

1. EROSION EELS™ USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.1 OR 1.2.
2. EROSION EELS™ SHALL BE MANUFACTURED FROM A WOOD-CONTAINING POLYMER WITH INTERIOR FIBER MATERIALS SUCH AS 100% SHINGLED RUBBER (MIXTURE SPECIFICATION 1.0, 50% SHINGLED RUBBER/50% ASPHALT-CEMENTED WOOD CHIPS) OR 100% SHINGLED RUBBER/75% ASPHALT-CEMENTED WOOD CHIPS/25% RECYCLED SYNTHETIC FIBERS (MIXTURE SPECIFICATION 1.2).
3. LENGTHS OF EROSION EELS™ SHALL BE EITHER A NOMINAL 4'-10" FT. OR 4'-5" FT. NOMINAL DIAMETER SHALL BE +/- 9.5 INCHES.
4. EROSION EELS™ CAN BE PLACED AT THE TOP OF THE FACE OR AT THE TOP 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 TOP OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BEAM, 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 CLOSURE, AND WOODY VEGETATION. EROSION EELS™ CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
8. PAKE BED AREA WITH A HAND PAKE OR BY DRAG HARROW.
9. DO NOT PLACE EEL DIRECTLY OVER HILL AND GULLIES UNTIL AREA HAS BEEN HAND-EXCAVATED AND BAKED 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 DETAIL DRAWINGS.
11. FOR OTHER 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 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. COMPRESS THE TWO EELS OF THE OVERLAP 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 SLOPE SLOPES A MINIMUM OF 3 FEET ABOVE THE DESIGN FLOW DEPTH.
15. EROSION EELS™ SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION IS COMPLETELY DEVELOPED OR UNTIL THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN EXHAUSTED (REQUIRE RECYCLING WITH NEW EELS).
16. ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE A MINIMUM WEIGHT OF 1.25 LBS/FT STEEL (POSTS 6 TO 7 FT LENGTH) APPLICATION. POSTS SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE. INSTALL PER DETAILS ON THIS SHEET.
17. PLACE T-POSTS THROUGH HANDLE OF BAGS. DO NOT DRIVE POSTS THROUGH EROSION EELS™. T-POSTS ARE TO BE SPACED A MINIMUM OF 2 FT INTO GROUND.

Spacing Recommendations for the Erosion Eel™ for Perimeter Controls and Intercepting Sheet Flow on Slopes

Slope (%)	single eel spacing (ft)	Dual eel spacing (ft)
0.5	300	N/A
1	200	N/A
2	160	N/A
3	80	N/A
4	50	N/A
5	40	N/A
6	35	N/A
8	30	N/A
10	25	N/A
15	17	N/A
20	12	25
25	7	15
33	N/A	10
50	N/A	6

* DUAL STACK REFERS TO TWO EELS STACKED ATOP ONE ANOTHER AND STABILIZED WITH T-POSTS. SEE DETAIL E2-E ON SHEET E-2.

PERIMETER CONTROL AND SHEET (INTER-RILL) FLOW INTERCEPTION FOR THE EROSION EEL™

FRIENDLY ENVIRONMENT
100 PRINCE STREET
SHELBYVILLE, TENNESSEE 37160
1-931-607-5953

- Authorized Use:
- Survey
 - Design Dev.
 - Permitting
 - Bidding
 - Construction

SUBMITTAL & REVISION RECORD		
NO.	DATE	DESCRIPTION



NOTE: DRAWINGS SUBJECT TO REVISIONS AT DISCRETION OF MANUFACTURER

SHEET OF	LAST EDIT DATE: JUNE 7, 2007	DRAWN BY: LM
DWG NO.: E-1	DWG SCALE: N.T.S.	CHECKED BY: KW
PROJECT NO:		
QUALITY MANAGER APPROVAL:		KW