

SPACING RECOMMENDATIONS FOR THE EROSION EEL™ FOR CHECK DAMS AND INTERCEPTION OF CONCENTRATED FLOWS

SLOPE(%)	9.5" SINGLE EEL SPACING(ft)	9.5" STACKED DUAL EEL SPACING(ft)
0.5	115	233
1	55	115
2	29	58
3	19	38
4	14	29
5	12	23
10	6	12
15	N/A	8
20	N/A	6
25	N/A	N/A

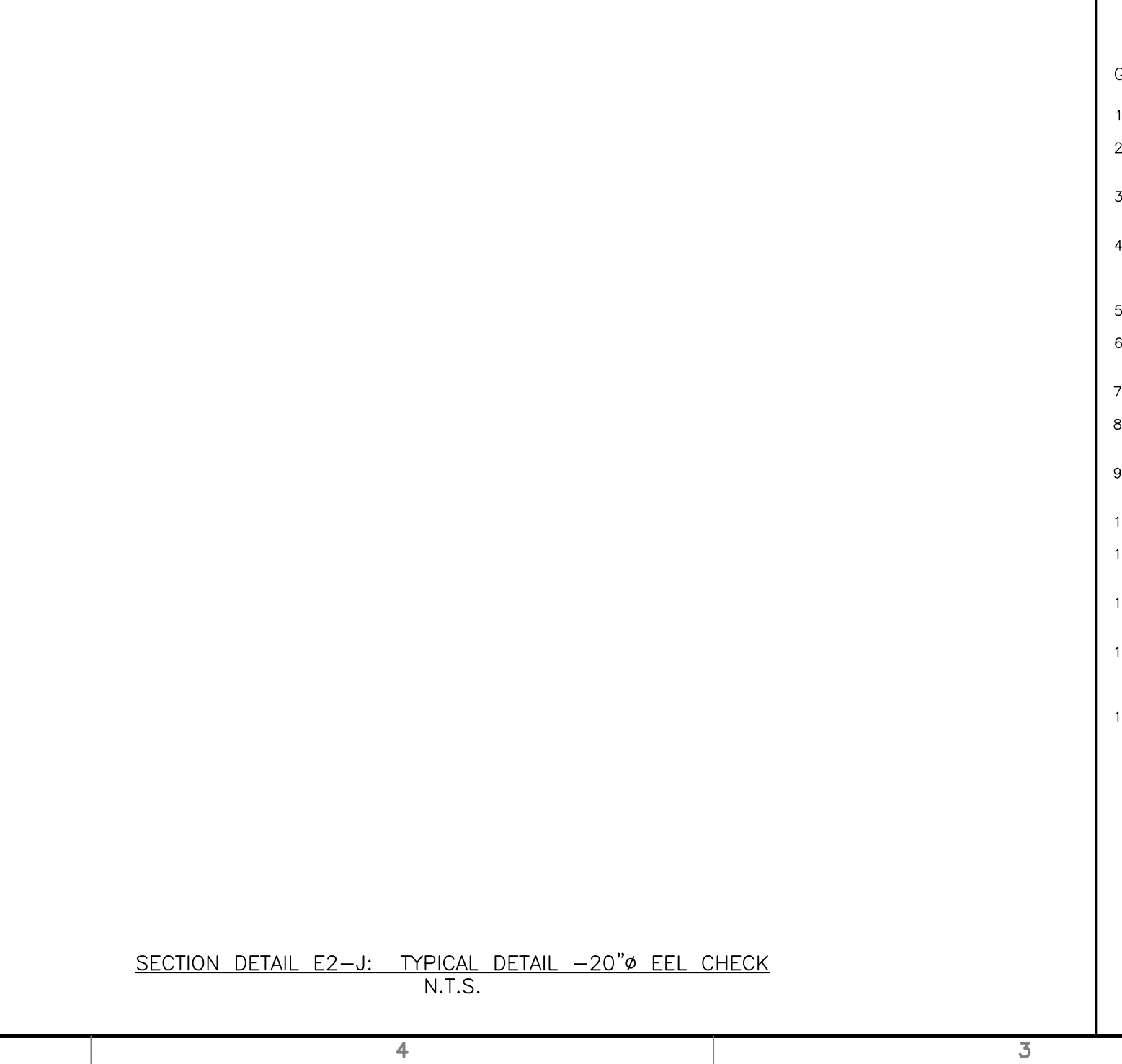
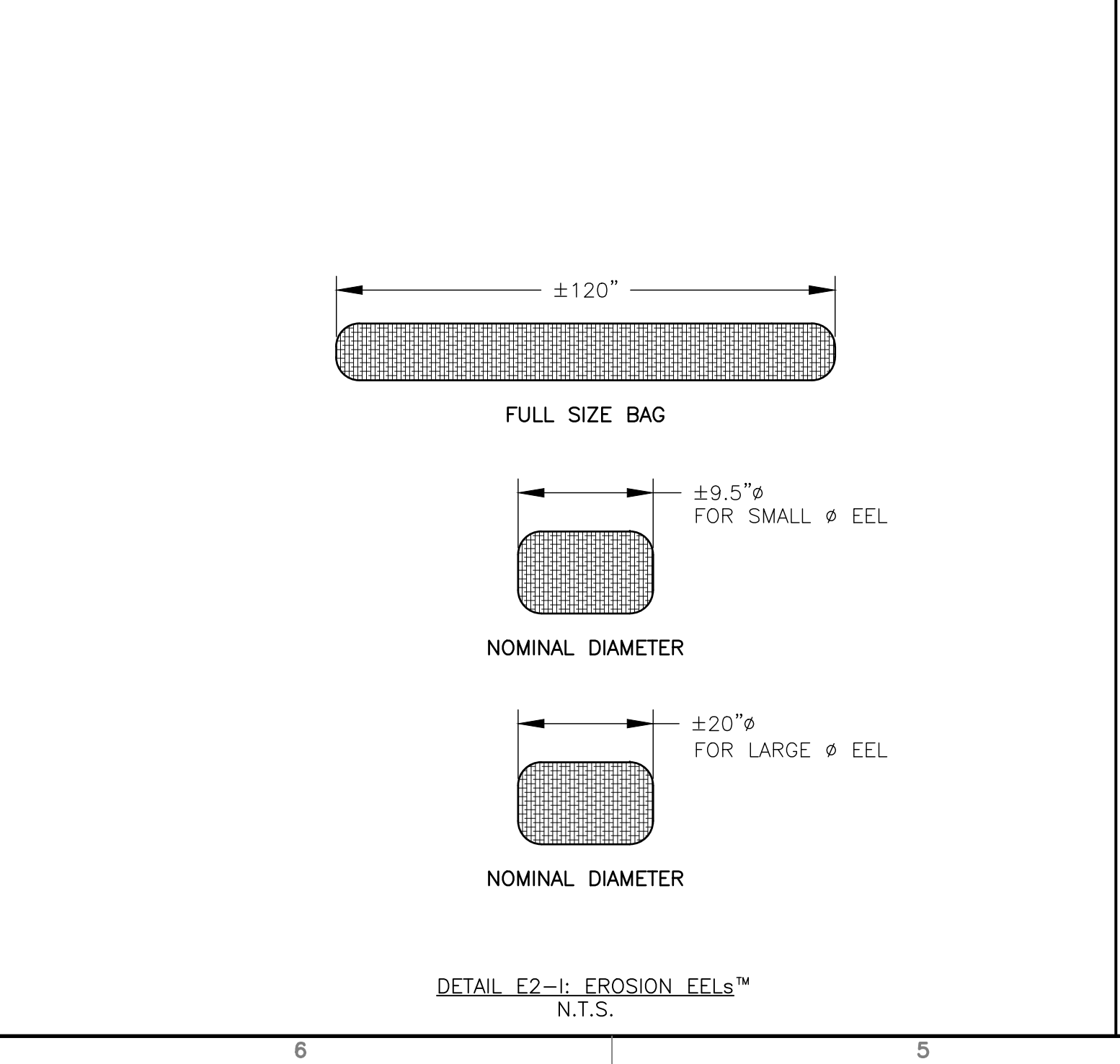
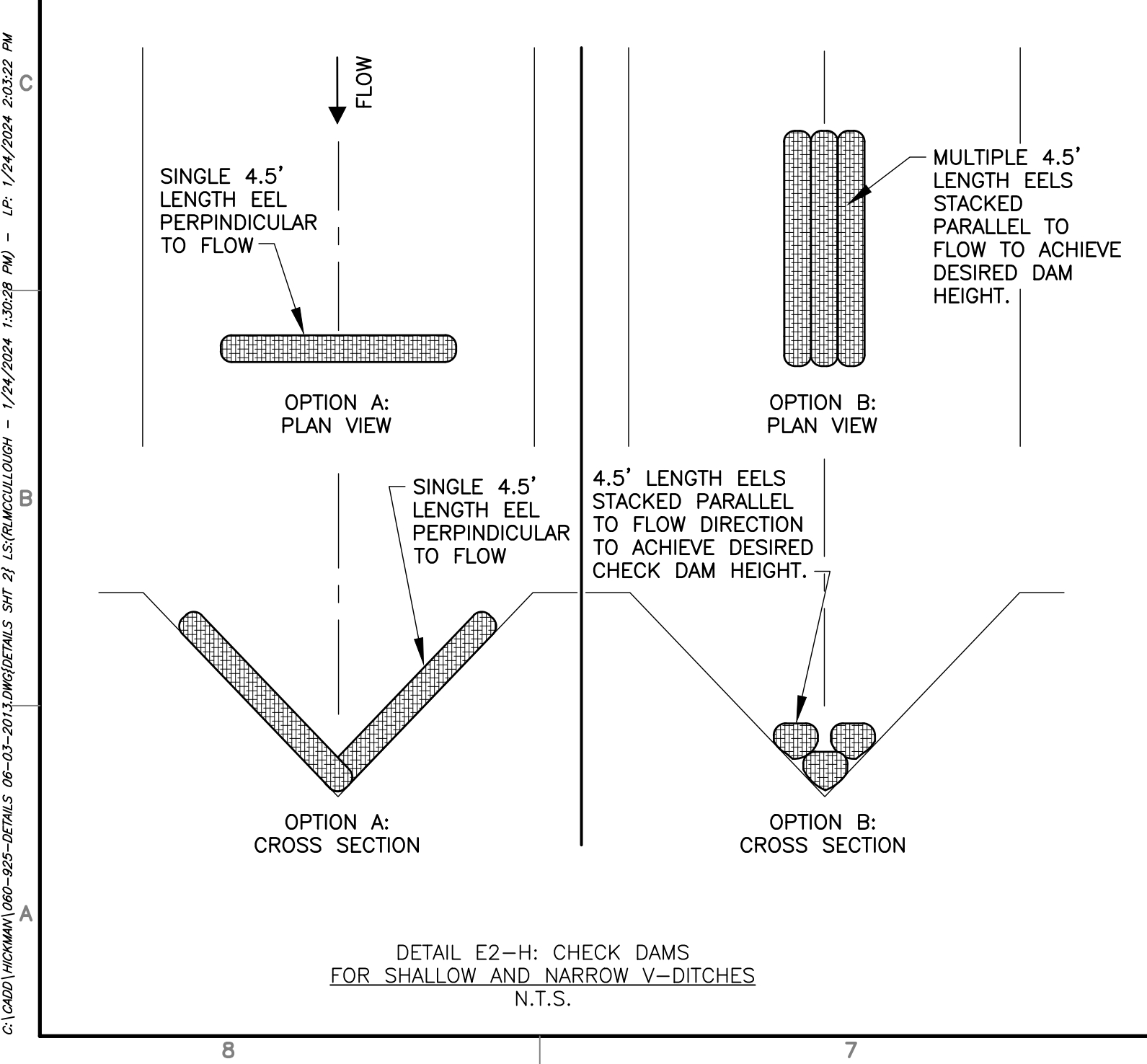
EROSION EEL™

SLOPE

EROSION EEL™

SPACING IS BASED ON DITCH SLOPE AND HEIGHT OF EEL.

DETAIL E2-D: SECTION VIEW FOR 9.5" AND 12" EELS N.T.S.



- GENERAL NOTES
1. EROSION EELS™ SHALL BE MANUFACTURED FROM A WOVEN GEOTEXTILE COVERING WITH INTERIOR FILTER MATERIALS.
  2. LENGTHS OF EROSION EELS™ SHALL BE A NOMINAL +/-10 FT. NOMINAL DIAMETER SHALL BE +/-9.5 INCHES OR +/- 12 INCHES.
  3. 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.
  4. EROSION EELS™ SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, 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.
  5. NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS™.
  6. PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLOGS, AND WOODY VEGETATION. EROSION EELS™ CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
  7. RAKE BED AREA WITH A HAND RAKE OR BY DRAG HARRAW.
  8. DO NOT PLACE EEL DIRECTLY OVER RILL 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.
  9. 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.
  10. IF MORE THAN ONE EROSION EEL™ IS PLACED IN A ROW, THE EELS SHALL BE JOINED PER DETAIL E1-B1.
  11. 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 FEET ABOVE THE DESIGN FLOW DEPTH.
  12. 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).
  13. ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE A 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-RESISTANT PAINT FOR STEEL APPLICATION. POSTS SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE. INSTALL PER DETAILS ON THIS SHEET.
  14. PLACE T-POSTS BEHIND EELS. DO NOT DRIVE POSTS THROUGH EROSION EELS™. T-POSTS ARE TO BE EMBEDDED A MINIMUM OF 2 FT. TO 3 FT. INTO GROUND.

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 1/24/2014 1:50:22 PM - LP: 1/24/2014 1:50:22 PM  
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SUBMITTAL & REVISION RECORD  
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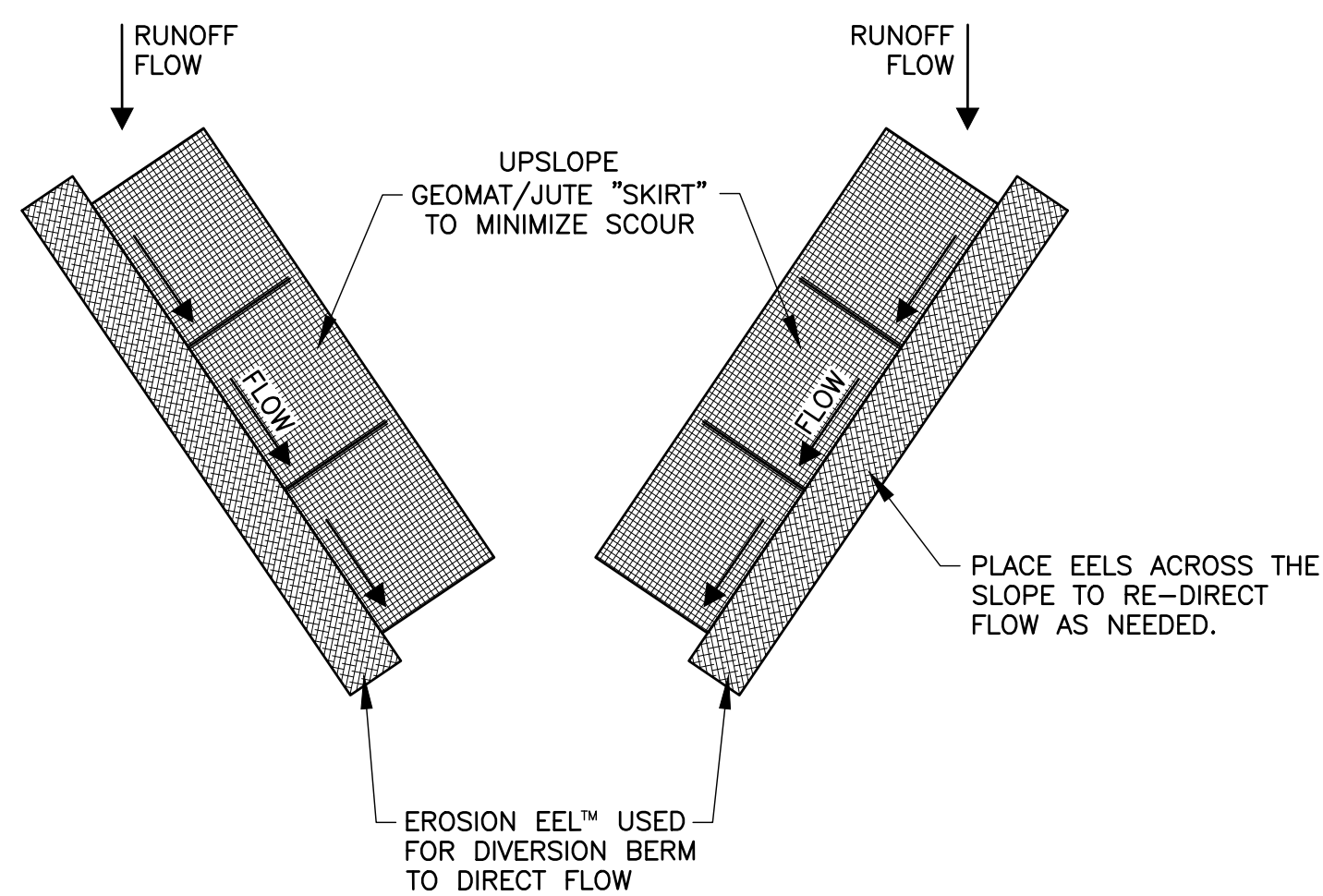
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 Survey  
 Design Dev.  
 Permitting  
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 100 PRINCE STREET  
 SHELBYVILLE, TENNESSEE 37160  
 7-931-607-5953

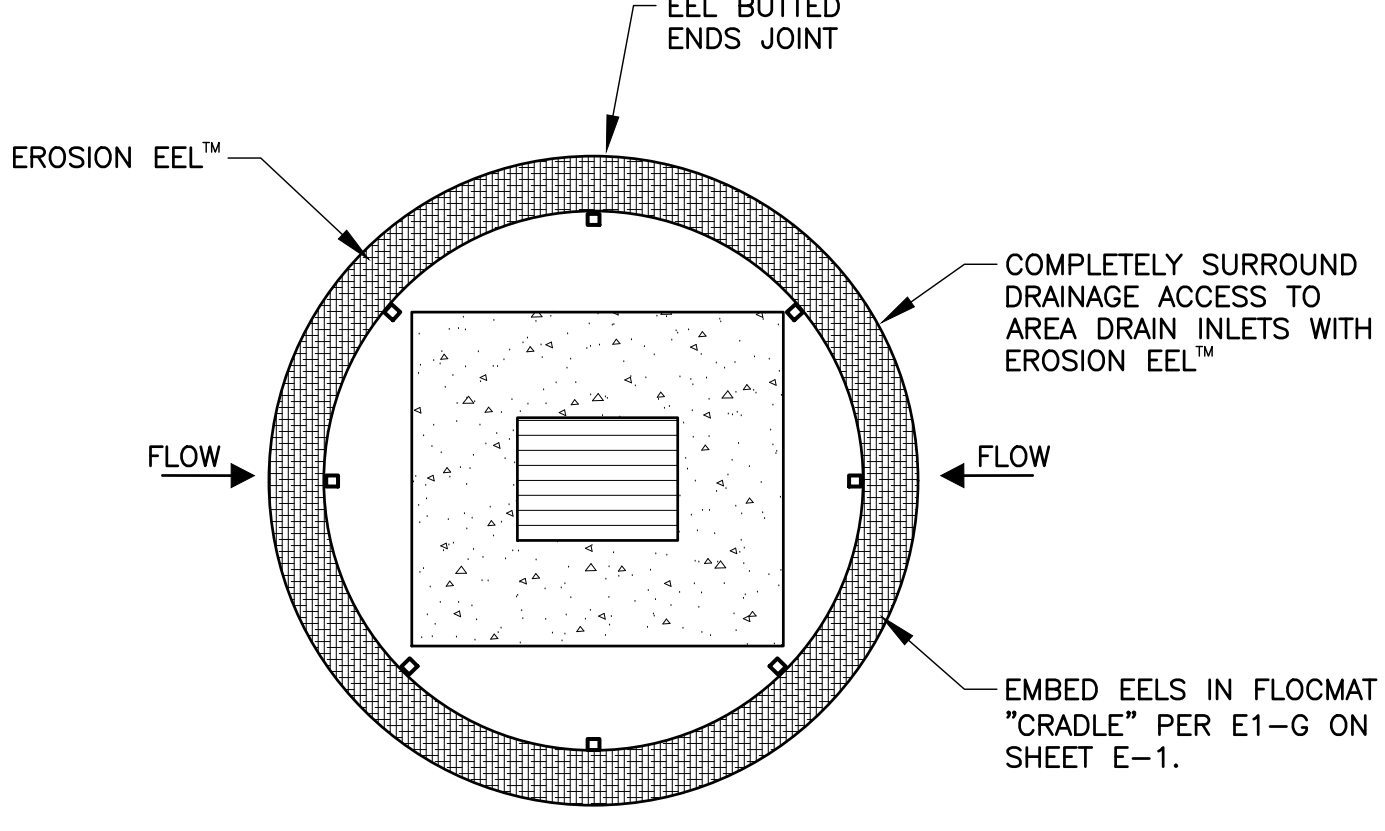
CHECK DAM DETAILS  
 FOR THE  
 EROSION EEL™

NOTE: DRAWINGS SUBJECT TO REVISIONS  
 AT DISCRETION OF MANUFACTURER

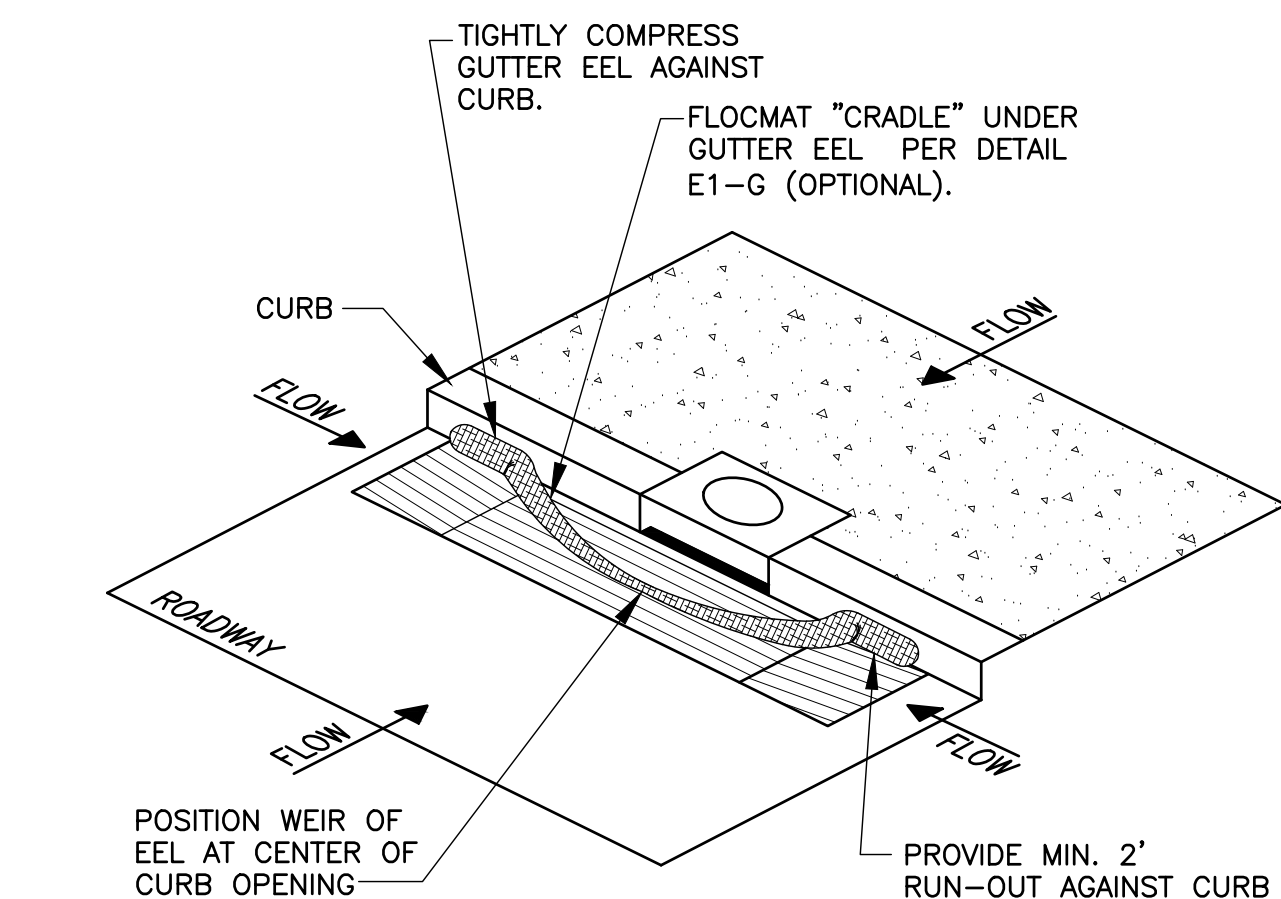
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 PROJECT NO: 060-925  
 SHEET NO: E-2  
 DRAWN BY: RW  
 CHECKED BY: RW  
 QUALITY MANAGER APPROVAL:



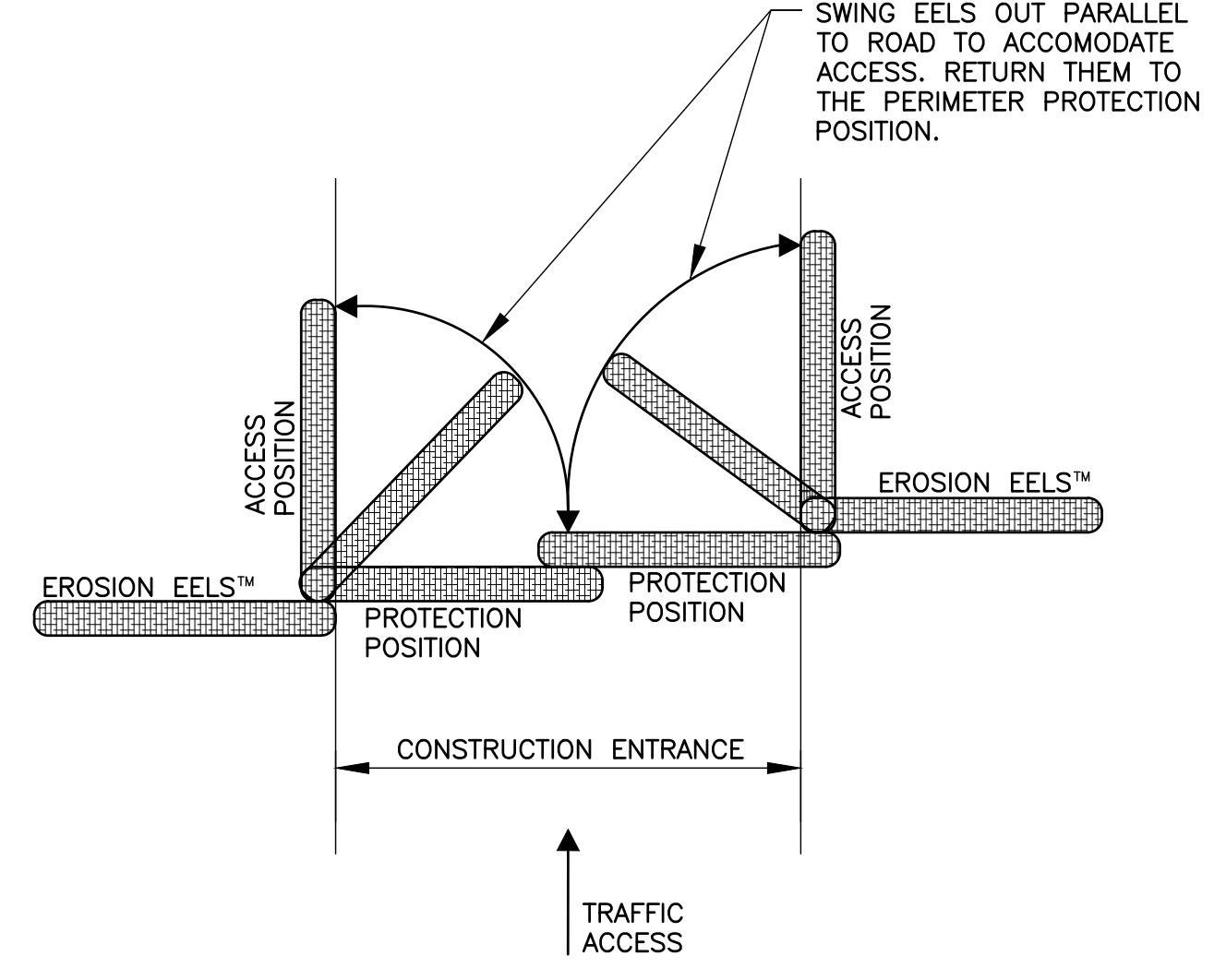
DETAIL E3-A: PLAN VIEW - EELS USED AS DIVERSION BERMS N.T.S.



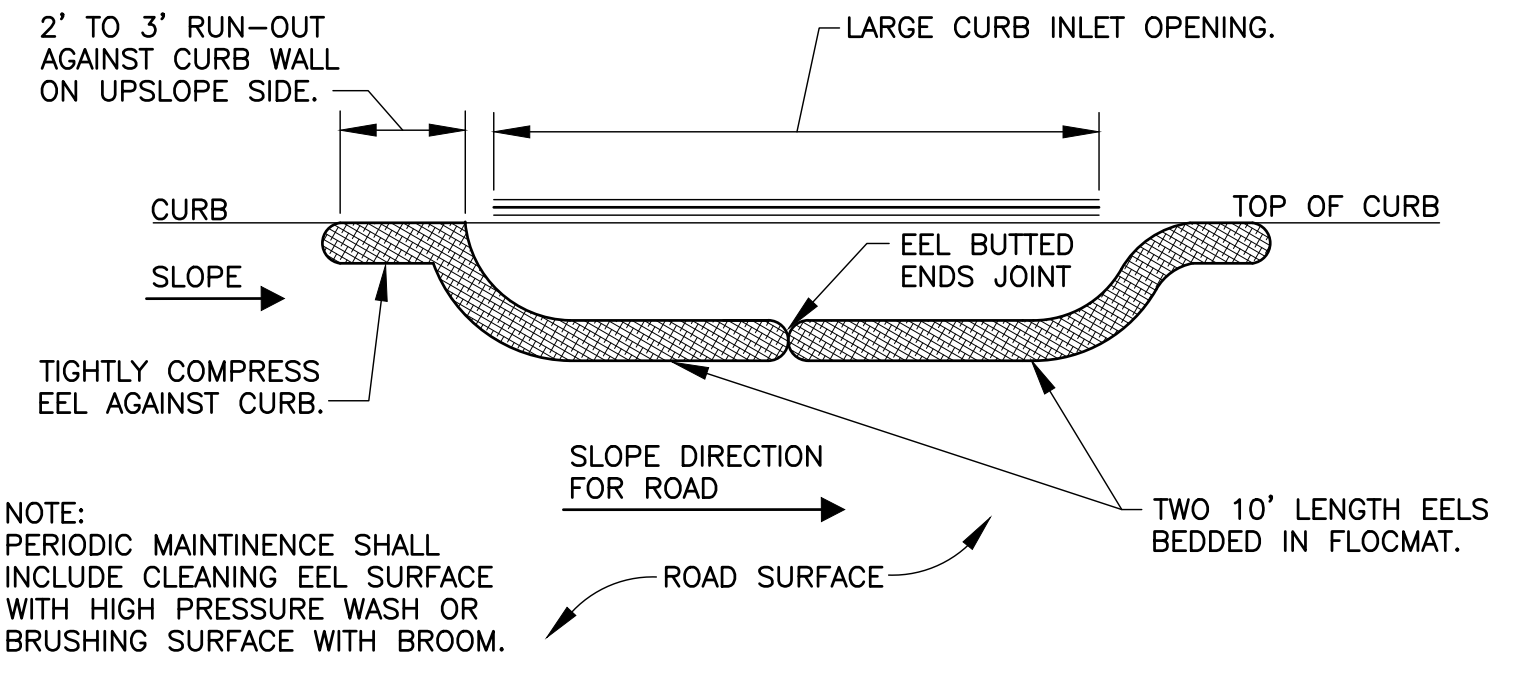
DETAIL E3-B: INLET SEDIMENT TRAP N.T.S.



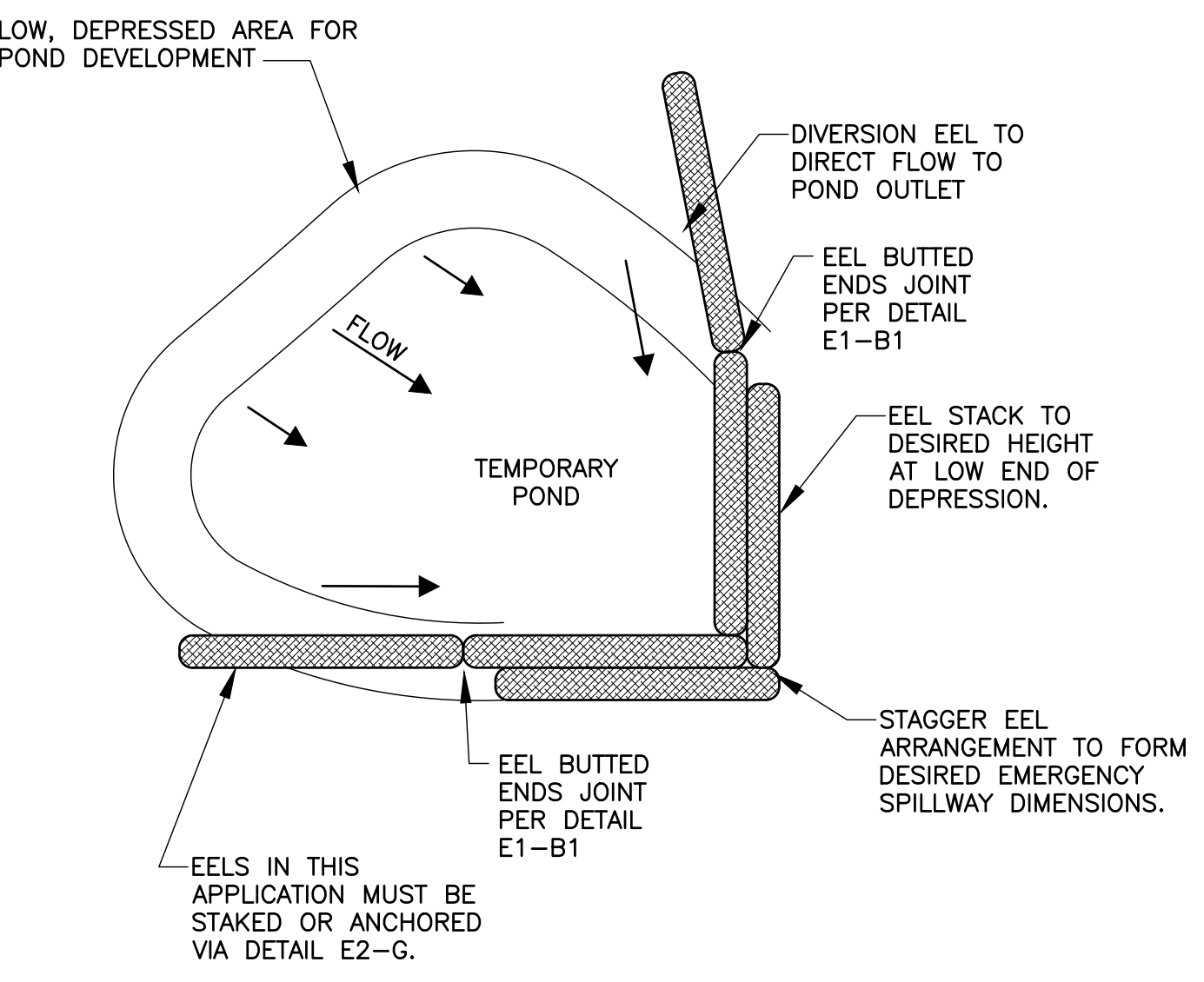
ISOMETRIC DETAIL E3-C: SMALL CURB INLET SEDIMENT TRAP - GUTTER EEL N.T.S.



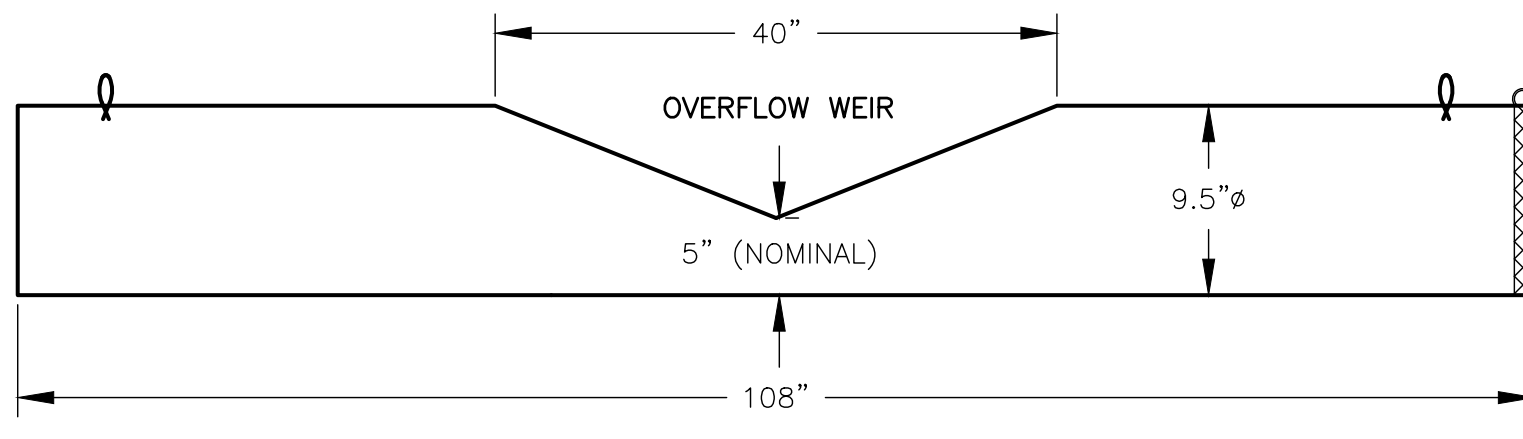
DETAIL E3-D: PLAN VIEW - TEMPORARY CONSTRUCTION ACCESS N.T.S.



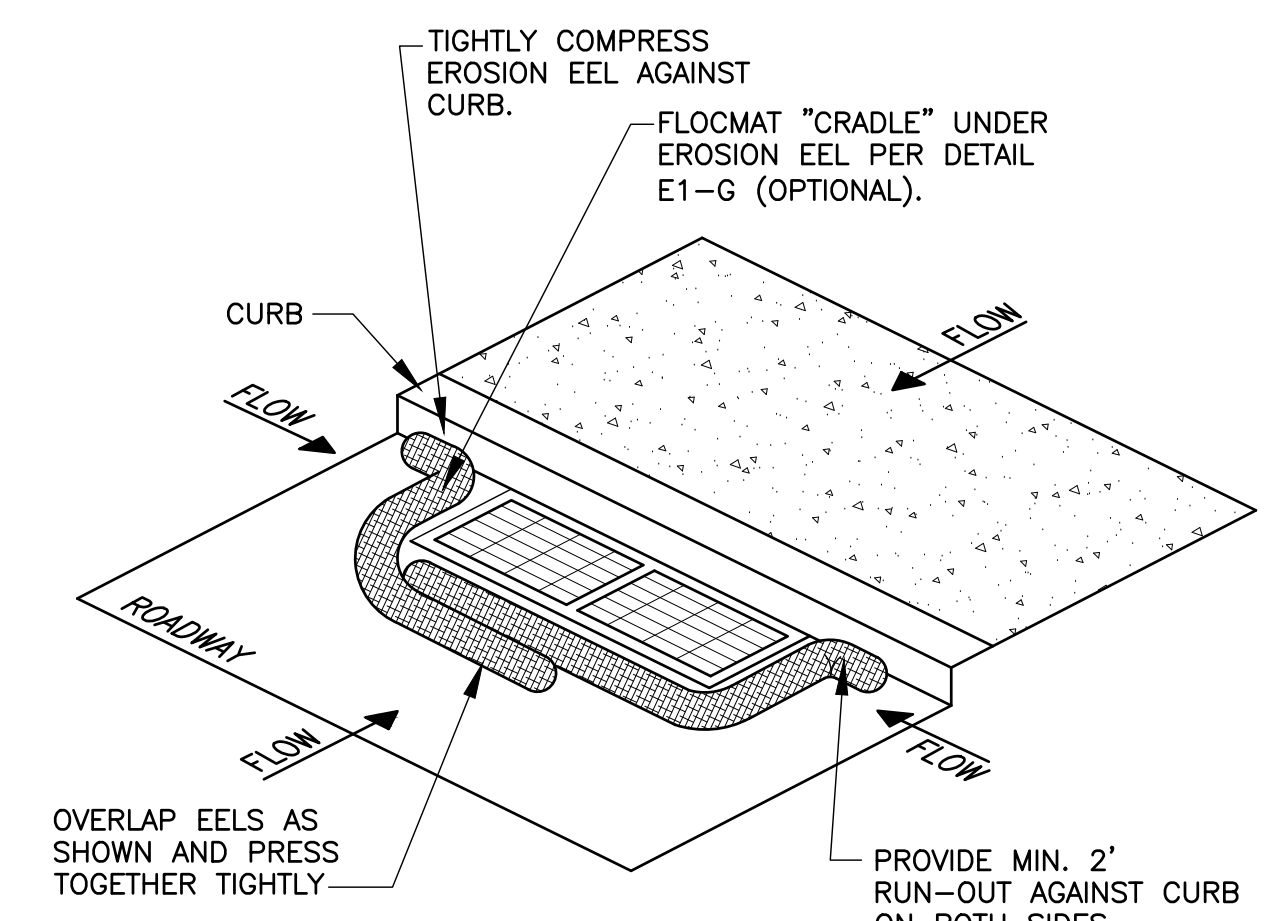
DETAIL E3-E: PLAN VIEW - LARGE CURB INLET (GUTTER EEL) N.T.S.



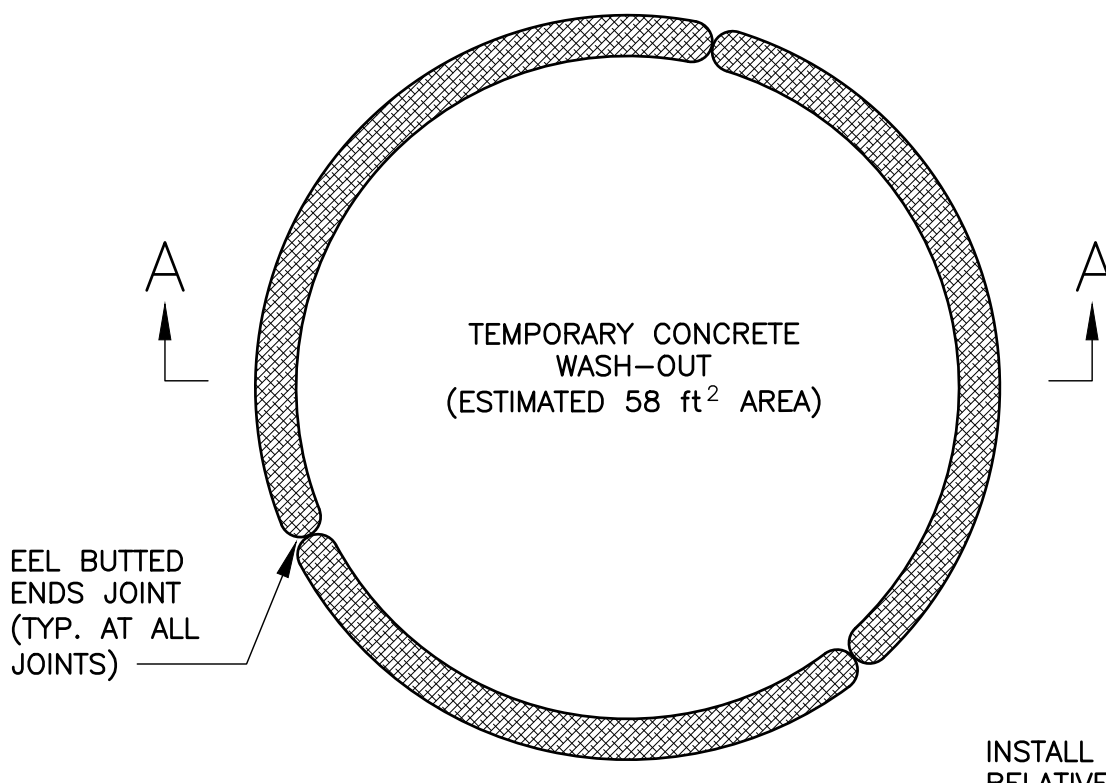
DETAIL E3-F: PLAN VIEW - TEMPORARY DETENTION POND N.T.S.



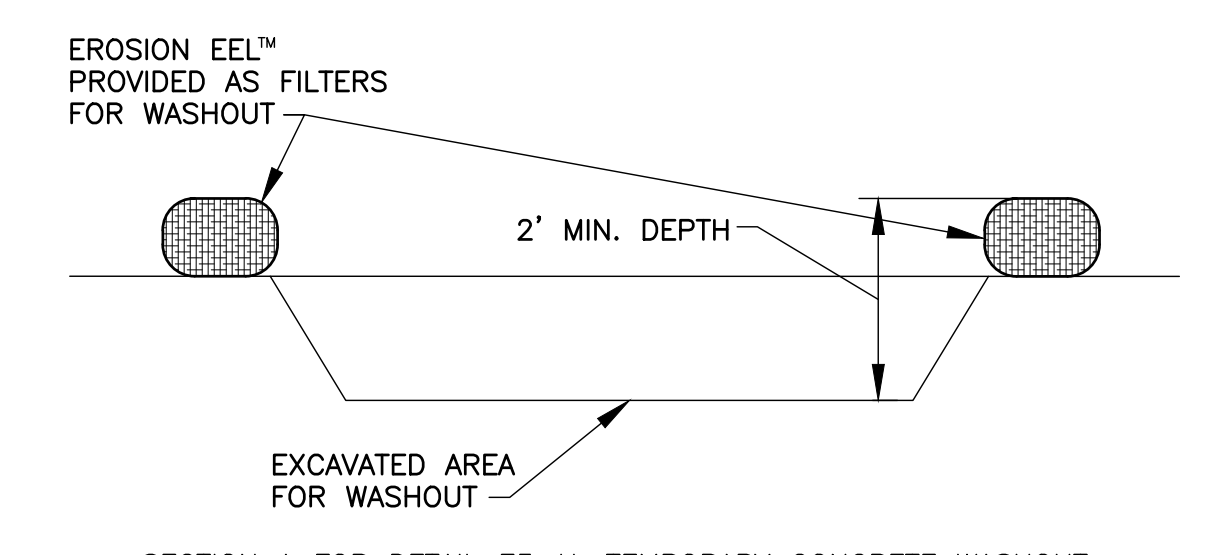
GUTTER EEL N.T.S.



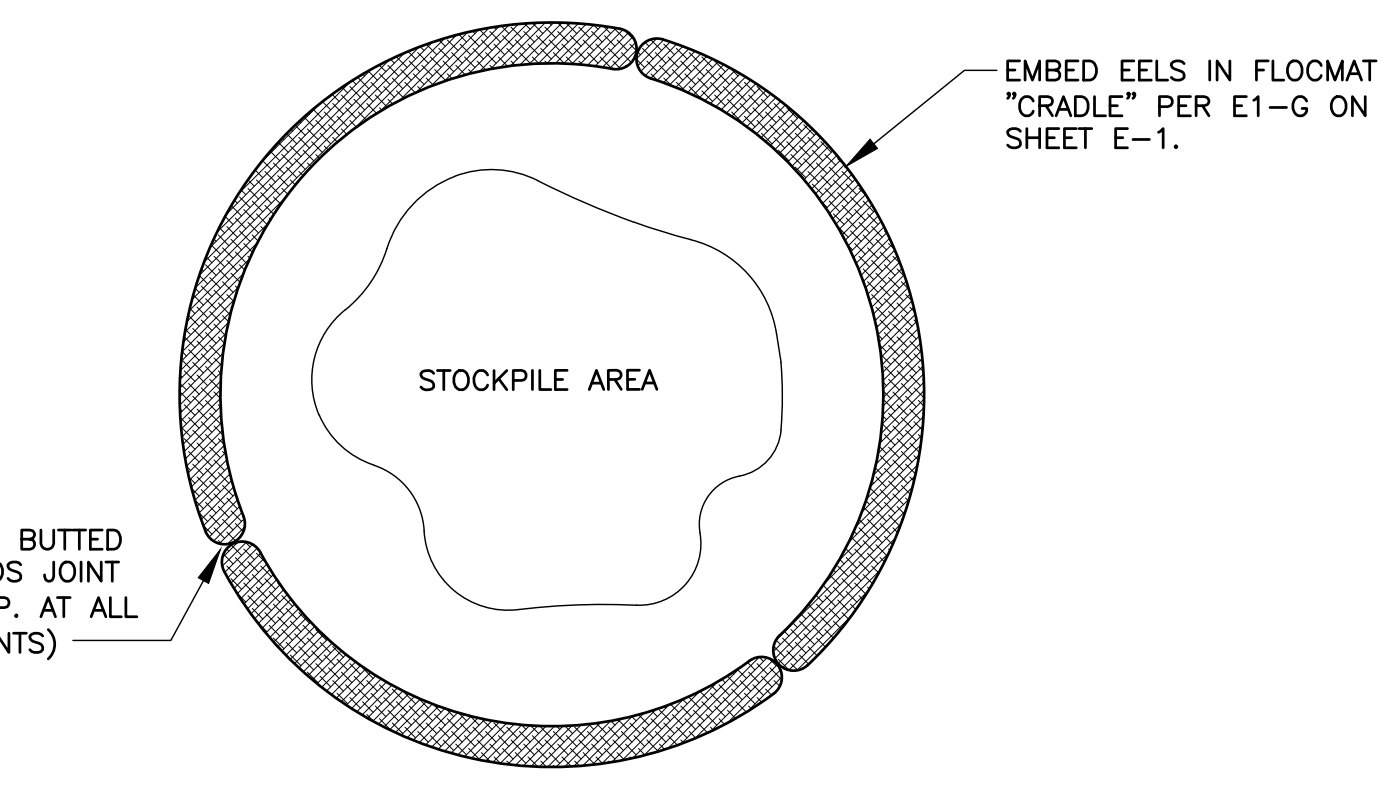
ISOMETRIC DETAIL E3-K: CURB INLET TRAP - EROSION EEL N.T.S.



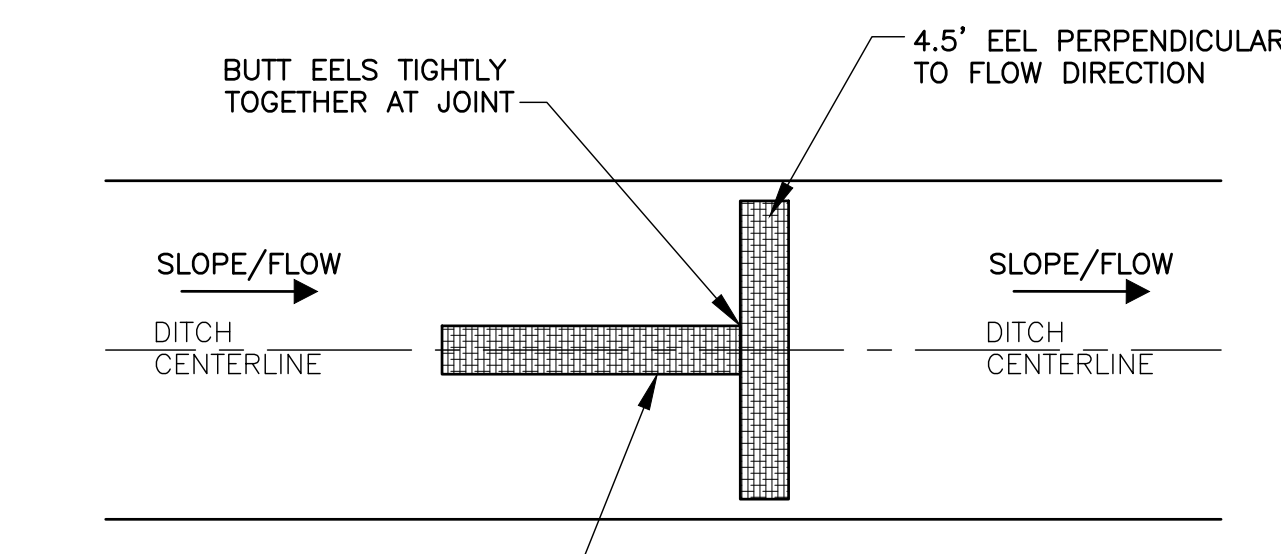
DETAIL E3-G: PLAN VIEW - TEMPORARY CONCRETE WASH-OUT N.T.S.



SECTION A FOR DETAIL E3-H: TEMPORARY CONCRETE WASHOUT N.T.S.



DETAIL E3-I: PLAN VIEW - TEMPORARY STOCKPILE AREAS N.T.S.



DETAIL E3-J: PLAN VIEW - "/>

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NO.	DATE

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CHECK DAMS (CONTINUED),  
 DIVERSION BERM, INLET PROTECTION,  
 PONDS, AND CONCRETE WASHOUT  
 DETAILS FOR THE EROSION EEL™

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NOTE: DRAWINGS SUBJECT TO REVISIONS AT DISCRETION OF MANUFACTURER

SHEET NO.:	E-3
DWG NO.:	060-925
LAST EDIT DATE:	June 03, 2013
DRAWN BY:	LM
CHECKED BY:	KW
PROJECT NO.:	N.T.S.
QUALITY MANAGER APPROVAL:	