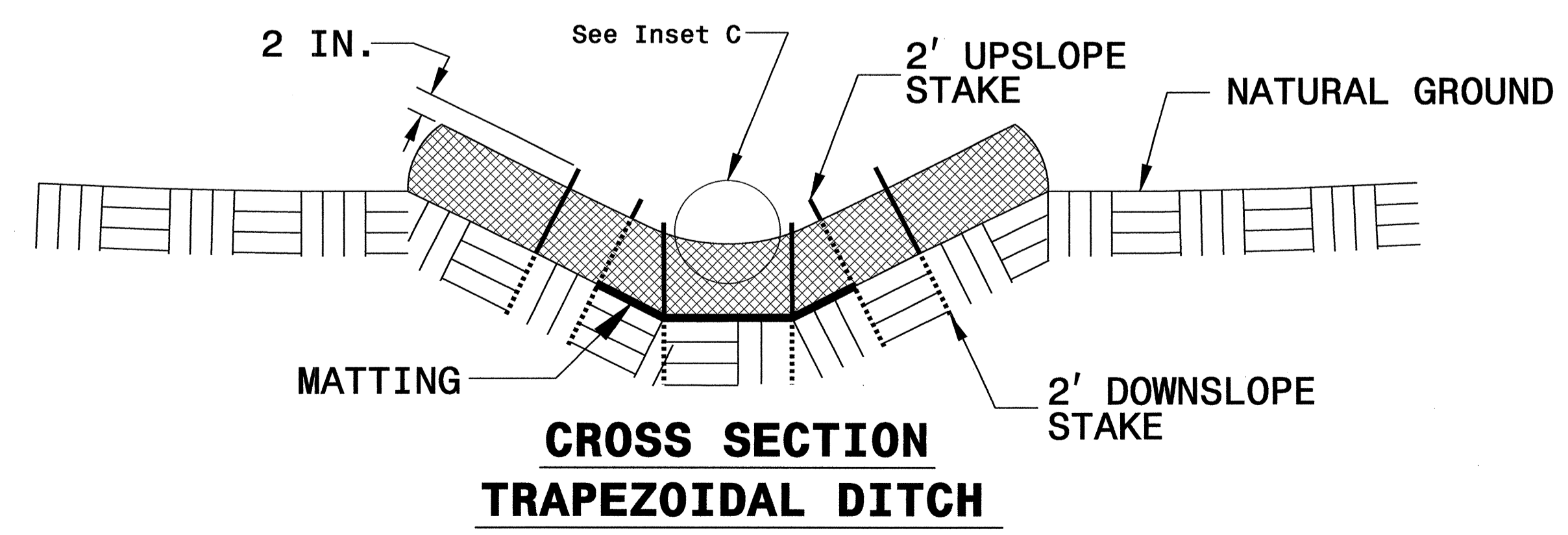
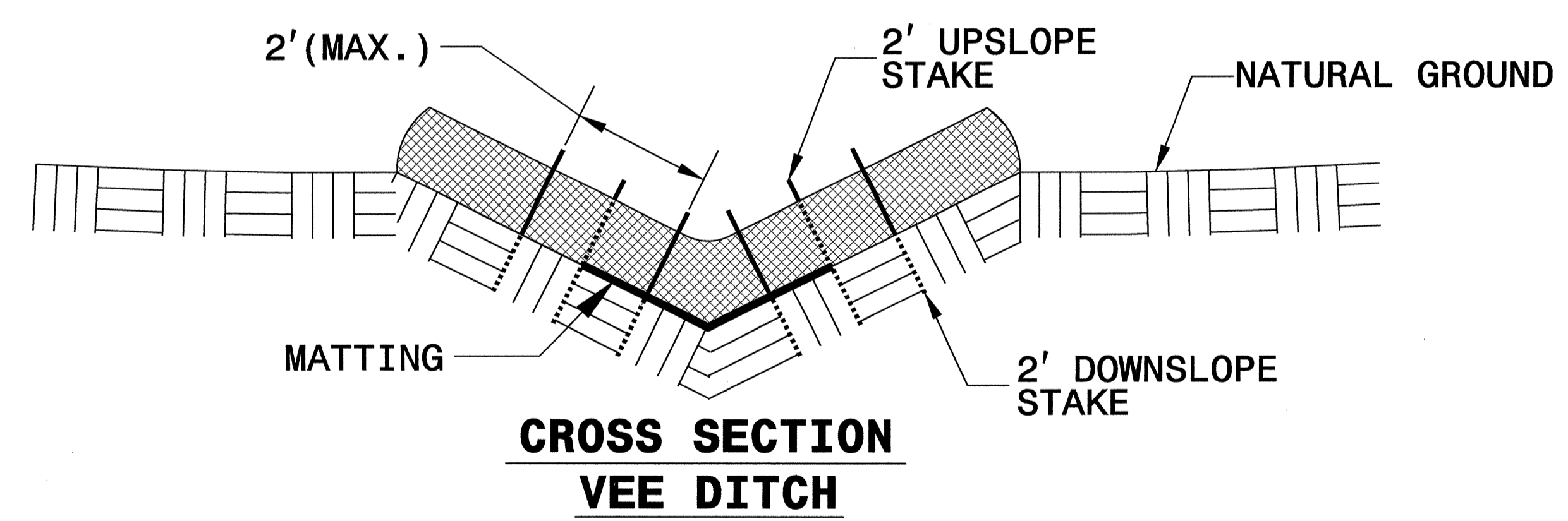
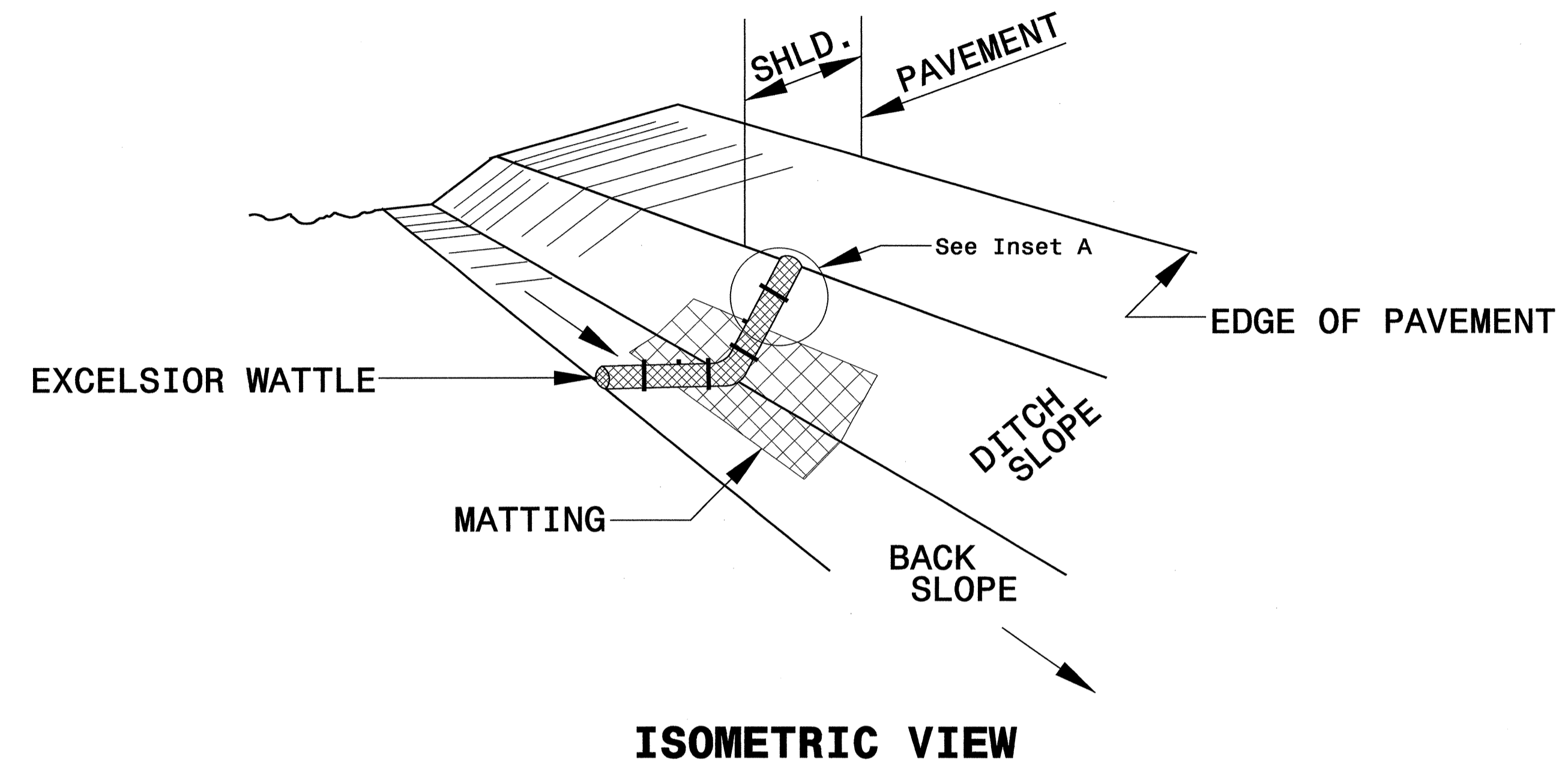


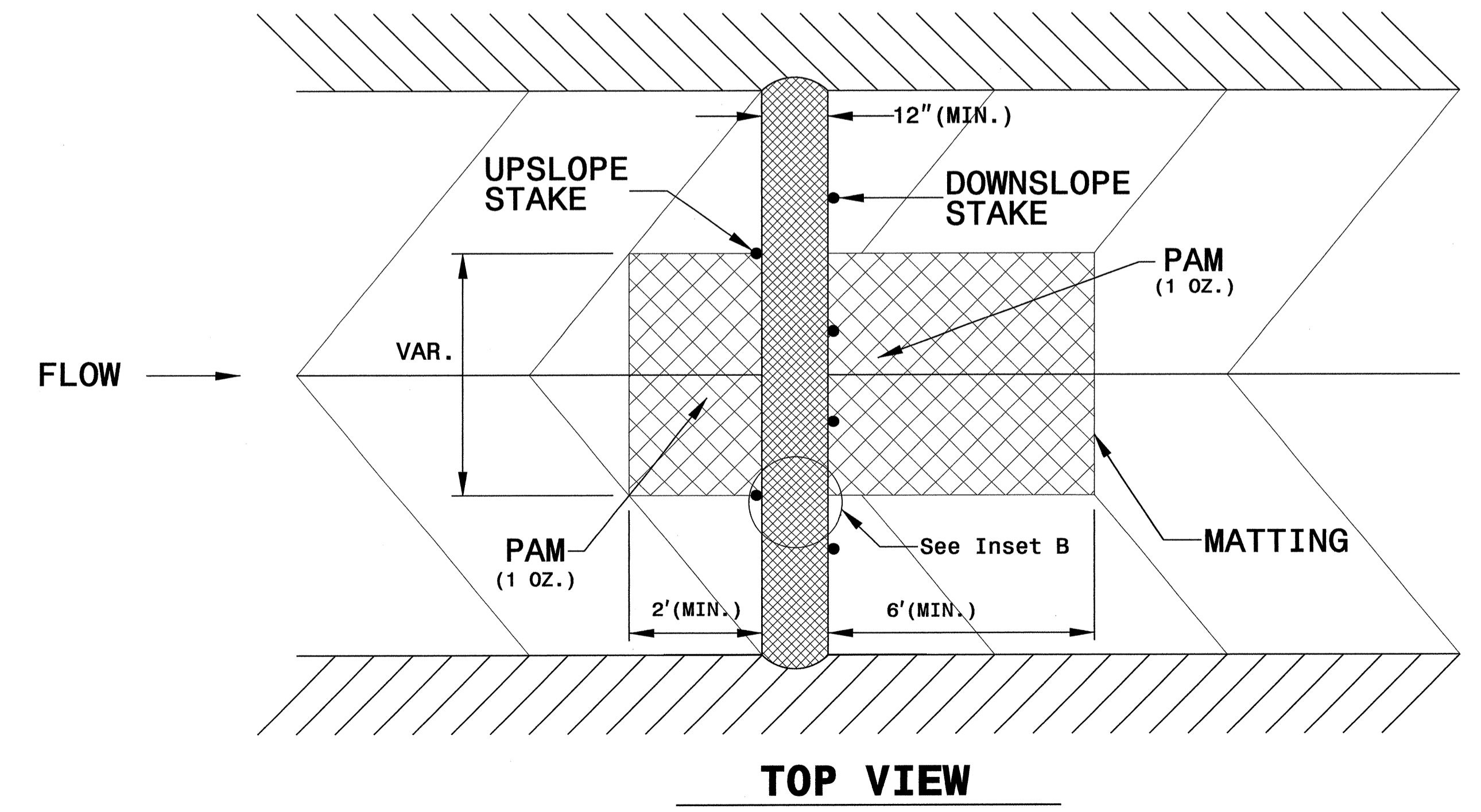
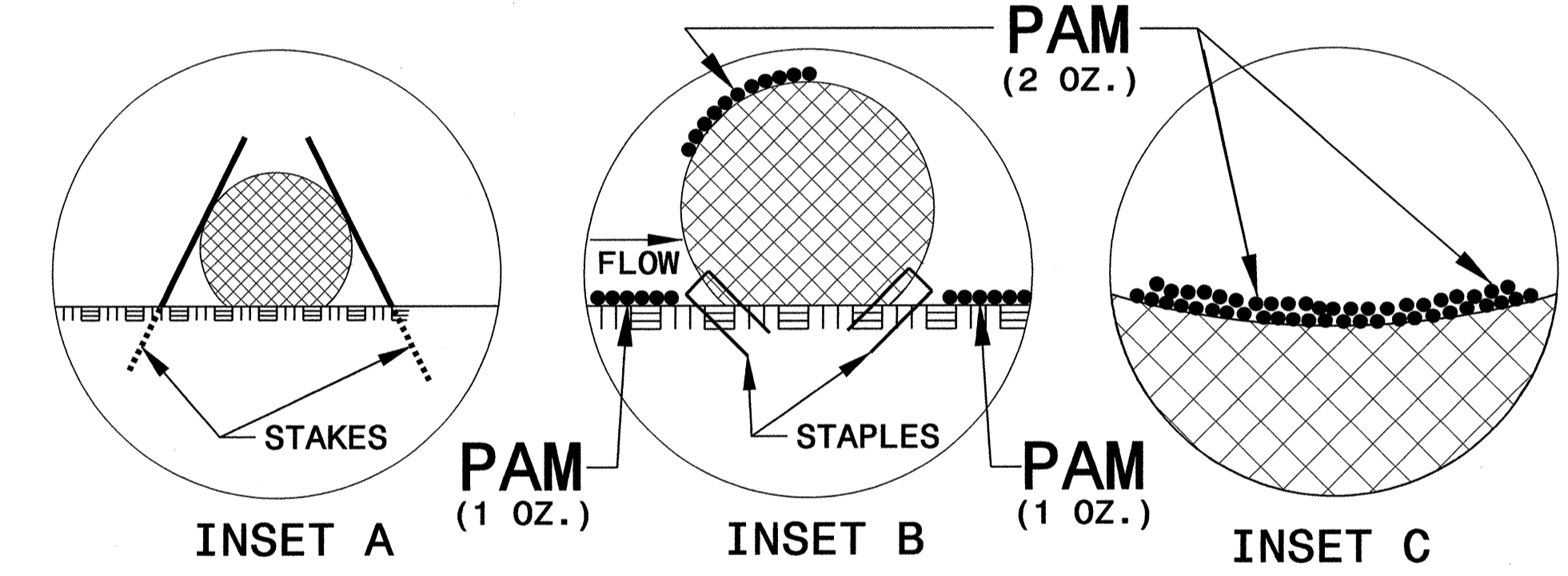
PROJECT REFERENCE NO. B-4697	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



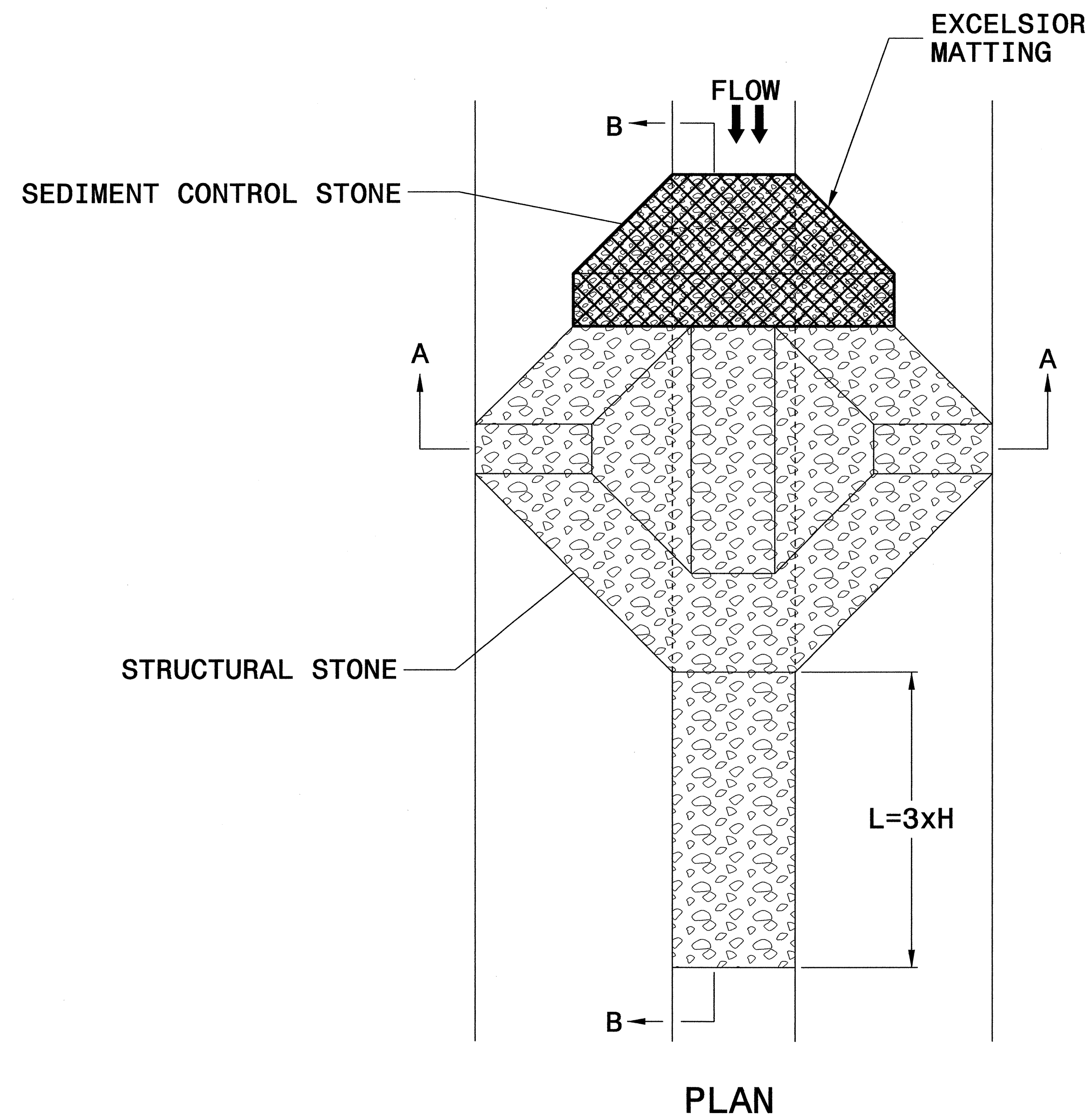
NOTES:

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO. B-4697	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

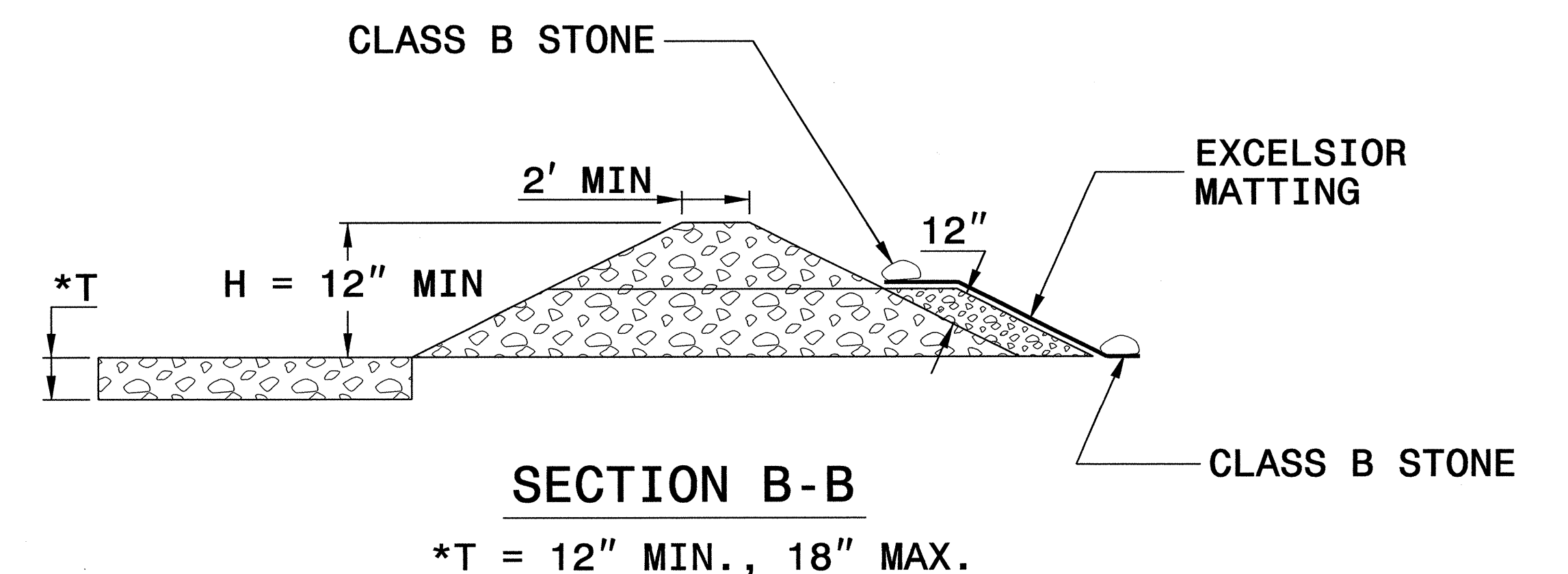
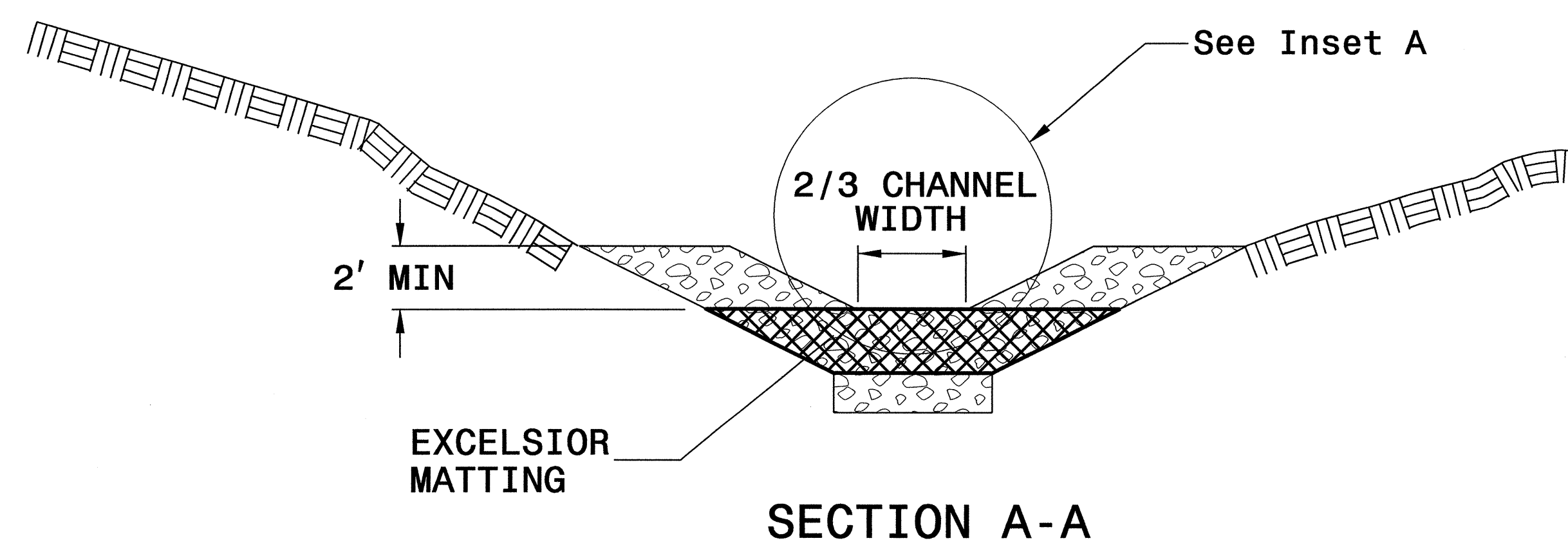
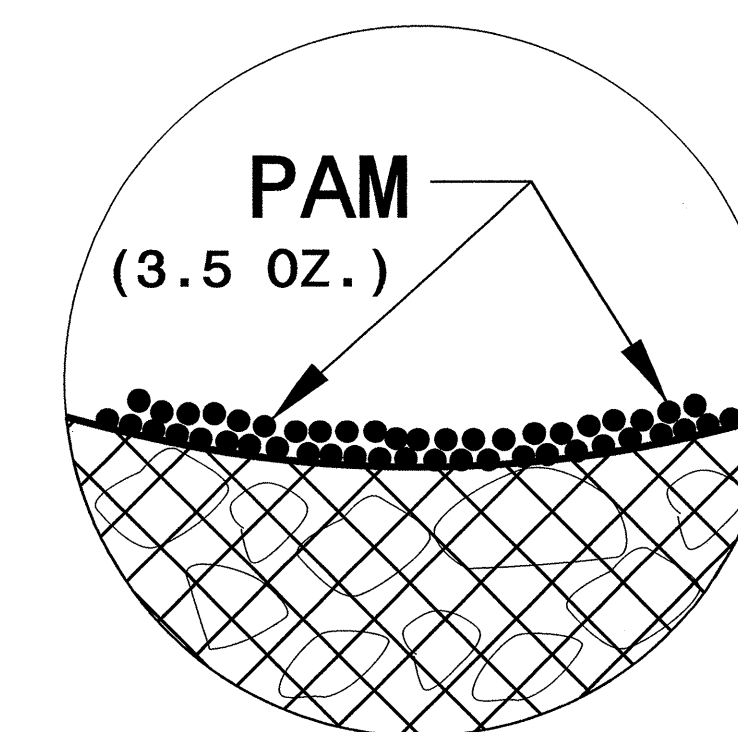


NOTES

USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

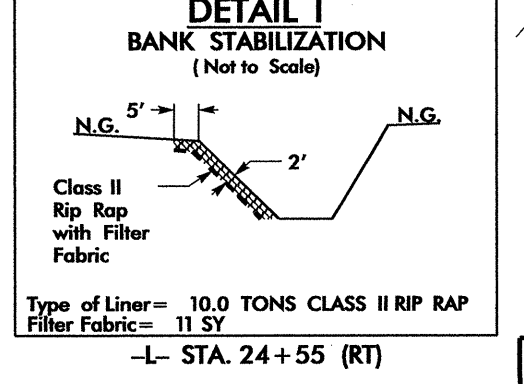
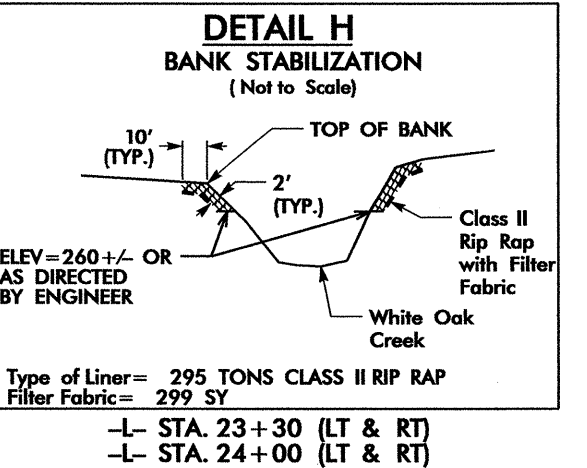
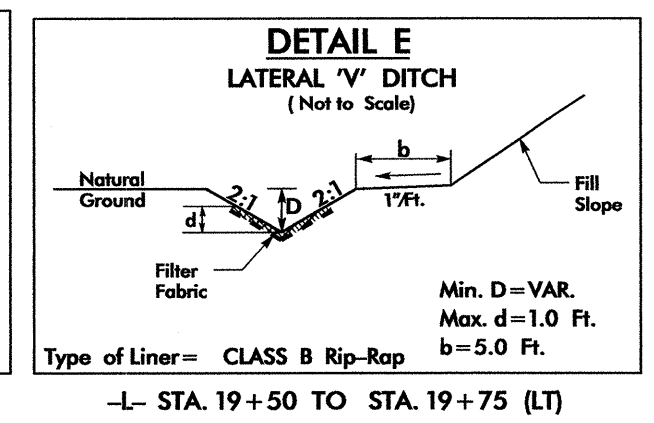
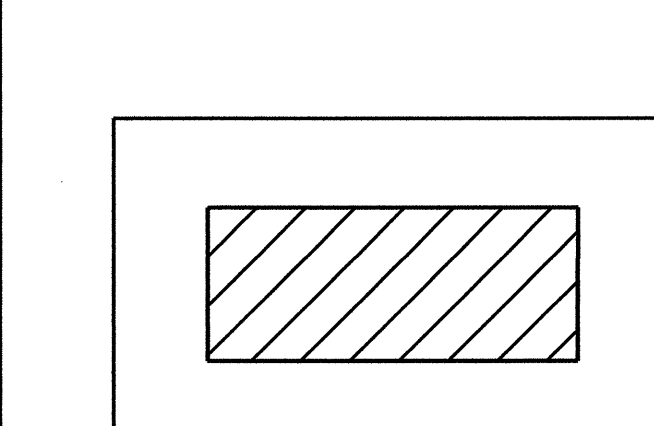
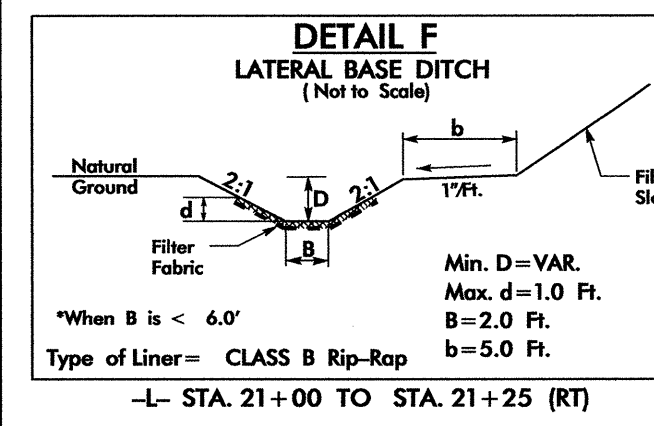
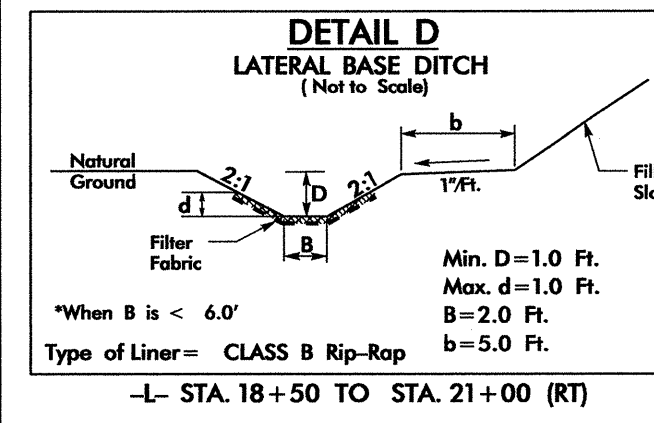
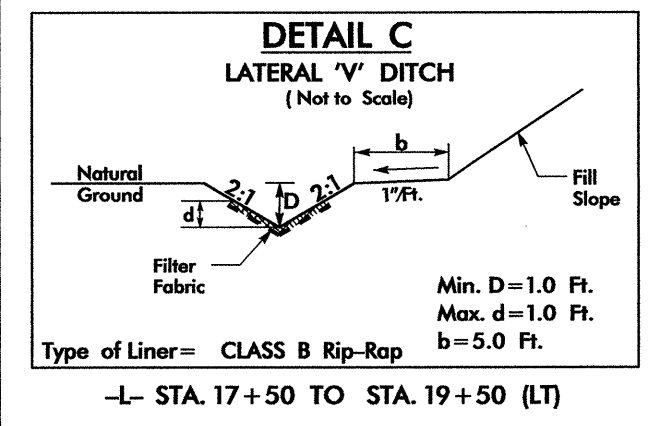
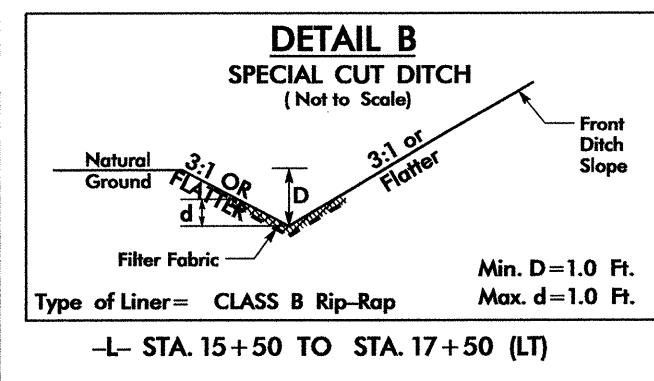
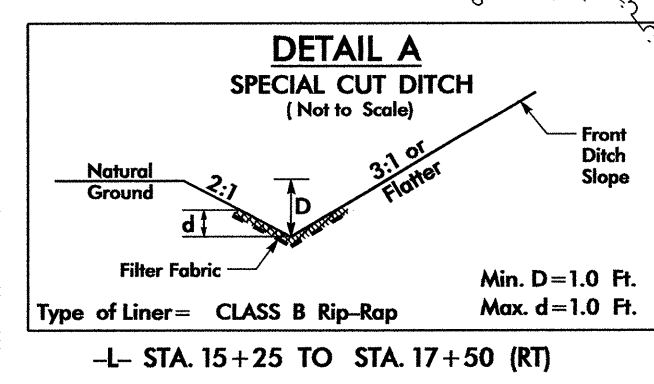
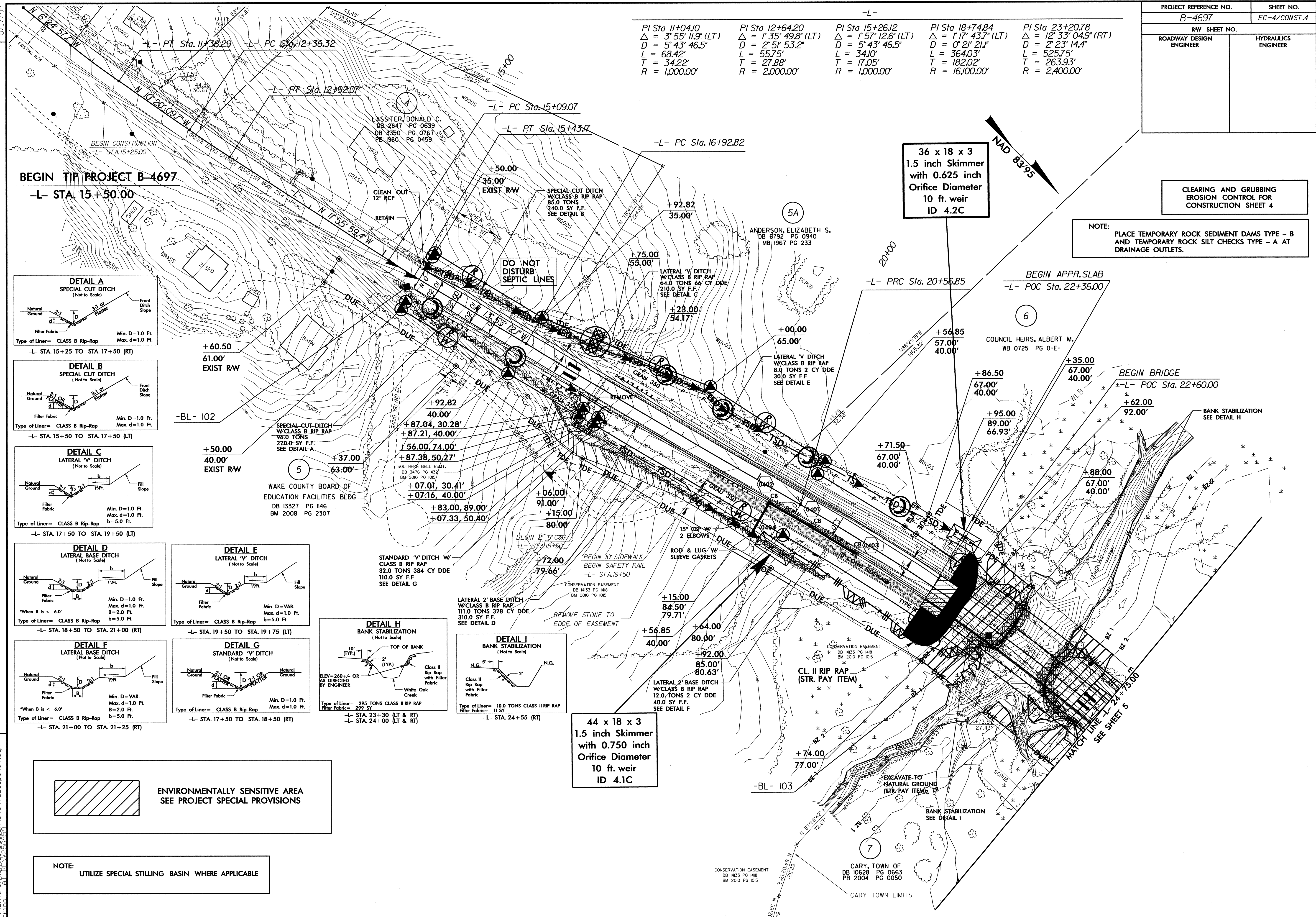
PROJECT REFERENCE NO. <i>B-4697</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
B-4697	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PI Sta 11+04.10 $\Delta = 3' 55" 11.9'$ (LT) $D = 5' 43' 46.5"$ $L = 68.42'$ $T = 34.22'$ $R = 1,000.00'$	PI Sta 12+64.20 $\Delta = 1' 35' 49.8'$ (LT) $D = 2' 51' 53.2"$ $L = 55.75'$ $T = 27.88'$ $R = 2,000.00'$	PI Sta 15+26.12 $\Delta = 1' 57' 12.6'$ (LT) $D = 5' 43' 46.5"$ $L = 34.10'$ $T = 17.05'$ $R = 1,000.00'$	PI Sta 18+74.84 $\Delta = 1' 17' 43.7'$ (LT) $D = 0' 21' 21.1"$ $L = 364.03'$ $T = 182.02'$ $R = 16,100.00'$	PI Sta 23+20.78 $\Delta = 12' 33' 04.9'$ (RT) $D = 2' 23' 14.4"$ $L = 525.75'$ $T = 263.93'$ $R = 2,400.00'$
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ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NOTE:
UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE

36 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 4.2C

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

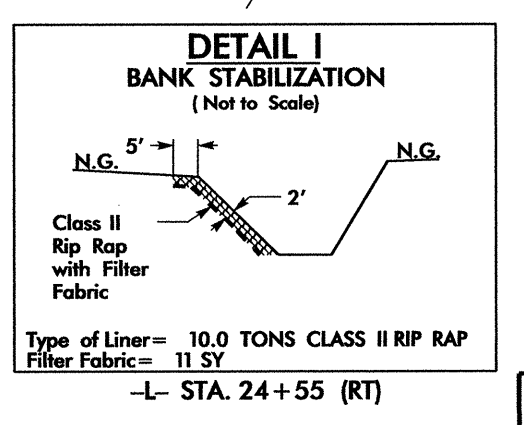
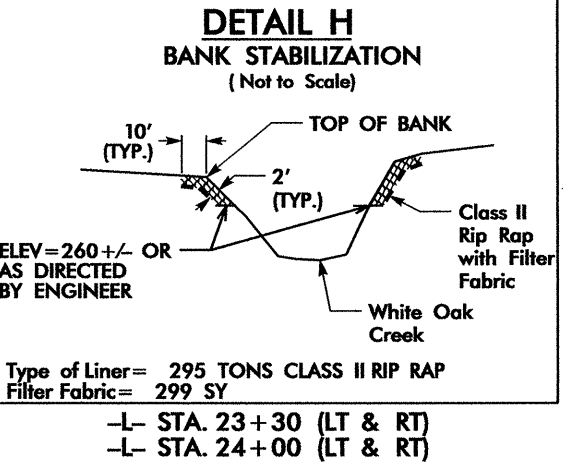
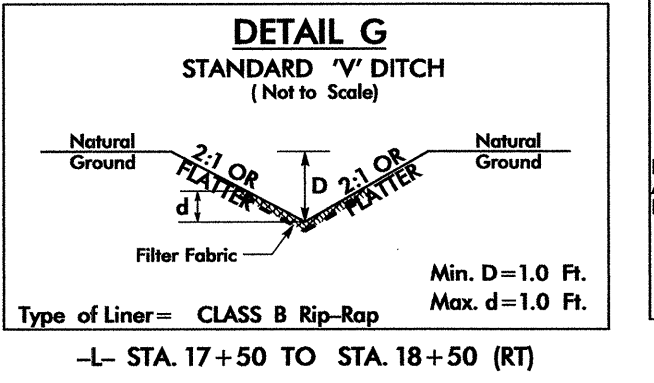
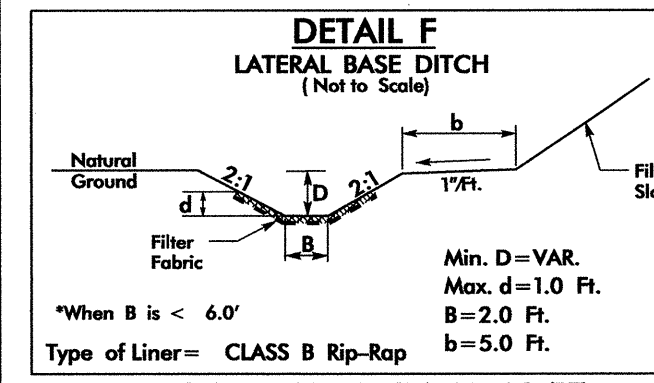
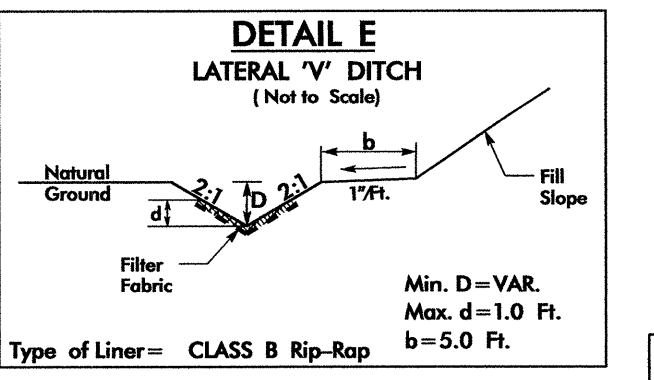
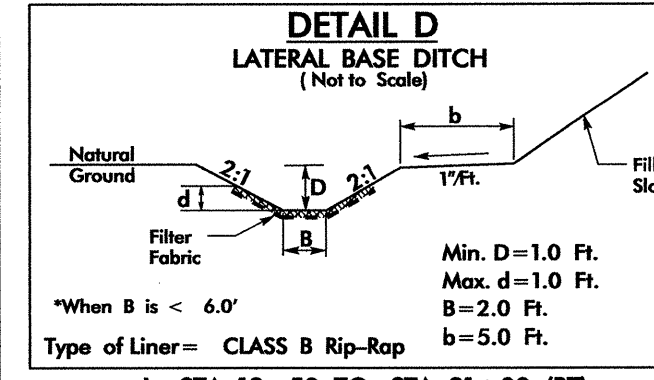
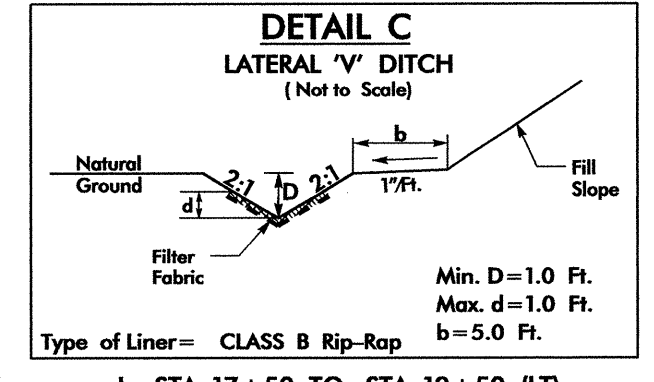
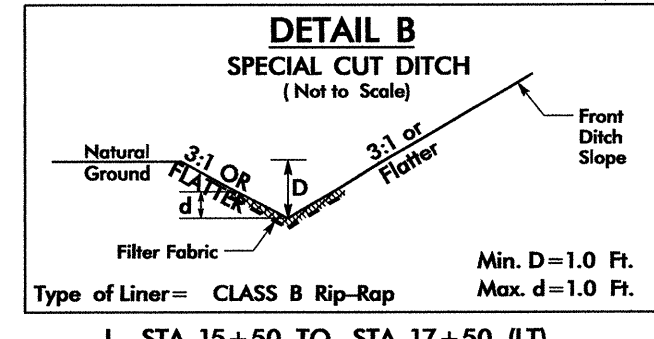
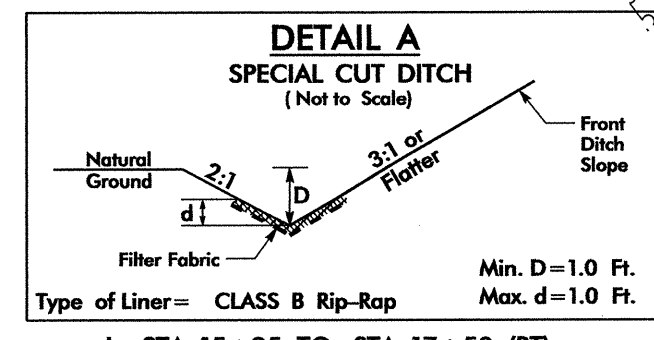
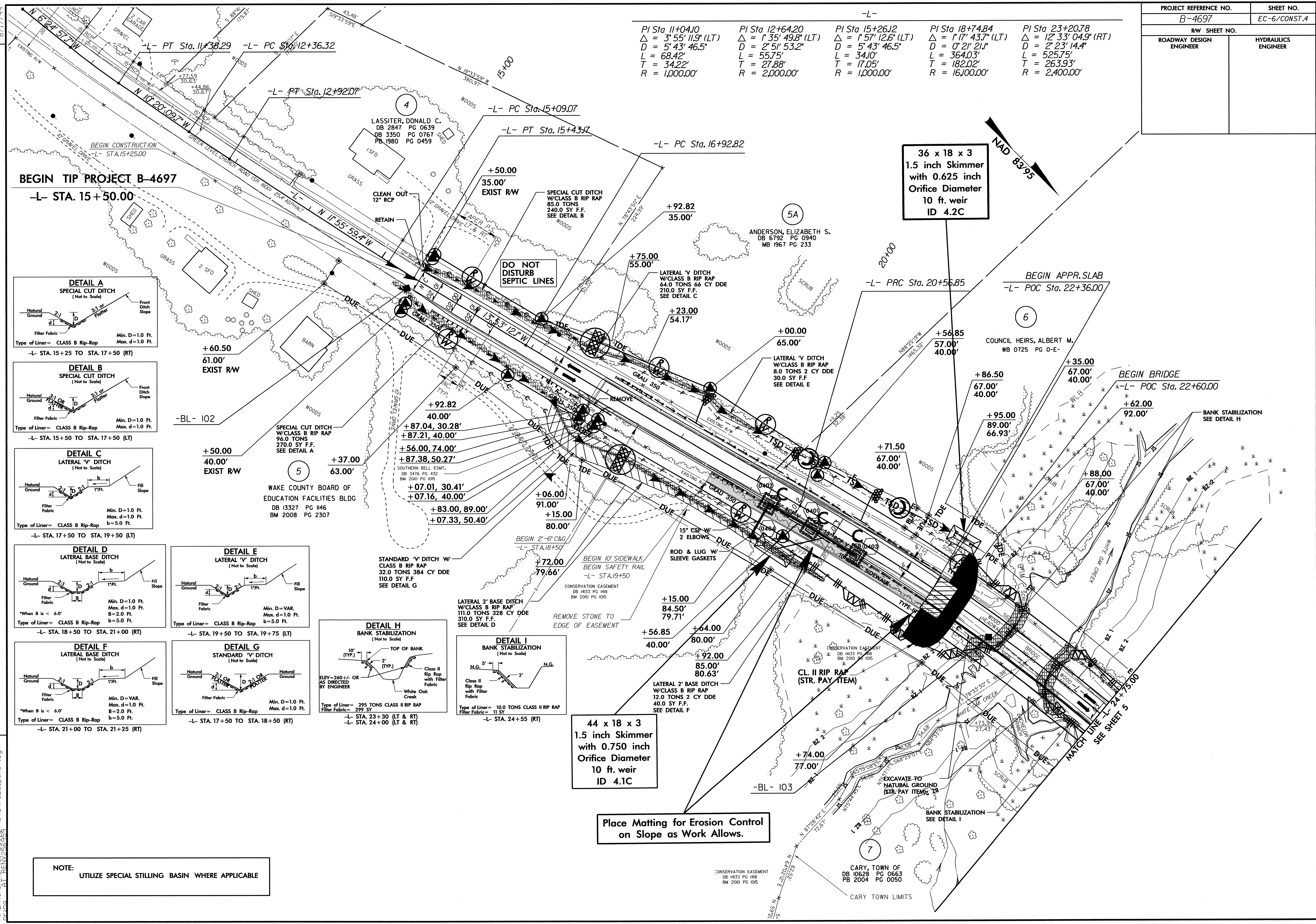
44 x 18 x 3
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
10 ft. weir
ID 4.1C

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
B-4697	EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PI Sta 11+04.10 $\Delta = 3' 55' 11.9" (LT)$ $D = 5' 43' 46.5"$ $L = 68.42'$ $T = 34.22'$ $R = 1,000.00'$	PI Sta 12+64.20 $\Delta = 1' 35' 49.8" (LT)$ $D = 2' 51' 53.2"$ $L = 55.75'$ $T = 27.88'$ $R = 2,000.00'$	PI Sta 15+26.12 $\Delta = 1' 57' 12.6" (LT)$ $D = 5' 43' 46.5"$ $L = 34.10'$ $T = 17.05'$ $R = 1,000.00'$	PI Sta 18+74.84 $\Delta = 1' 17' 43.7" (LT)$ $D = 0' 21' 21.1"$ $L = 364.03'$ $T = 182.02'$ $R = 16,100.00'$	PI Sta 23+20.78 $\Delta = 12' 33' 04.9" (RT)$ $D = 2' 23' 14.4"$ $L = 525.75'$ $T = 263.93'$ $R = 2,400.00'$
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36 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 4.2C

44 x 18 x 3
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
10 ft. weir
ID 4.1C

Place Matting for Erosion Control
on Slope as Work Allows.

NOTE:
UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE

REVISIONS

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