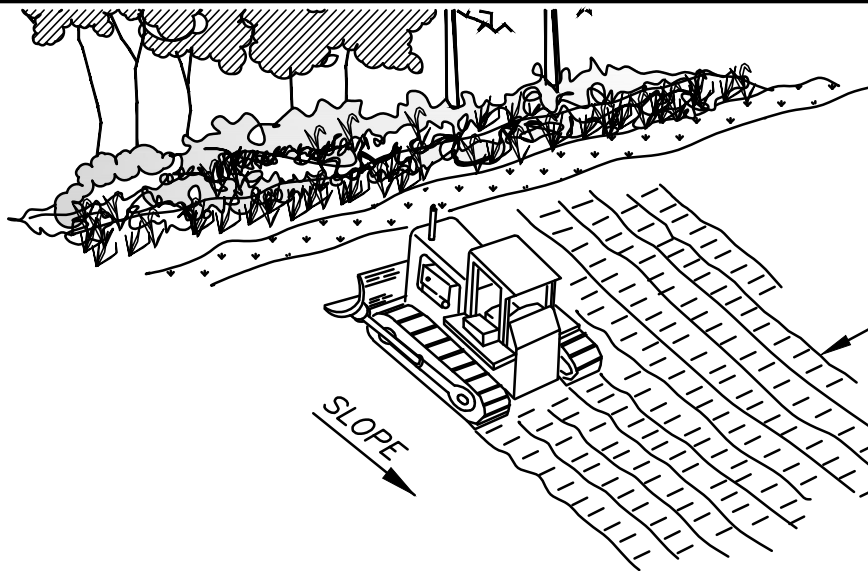
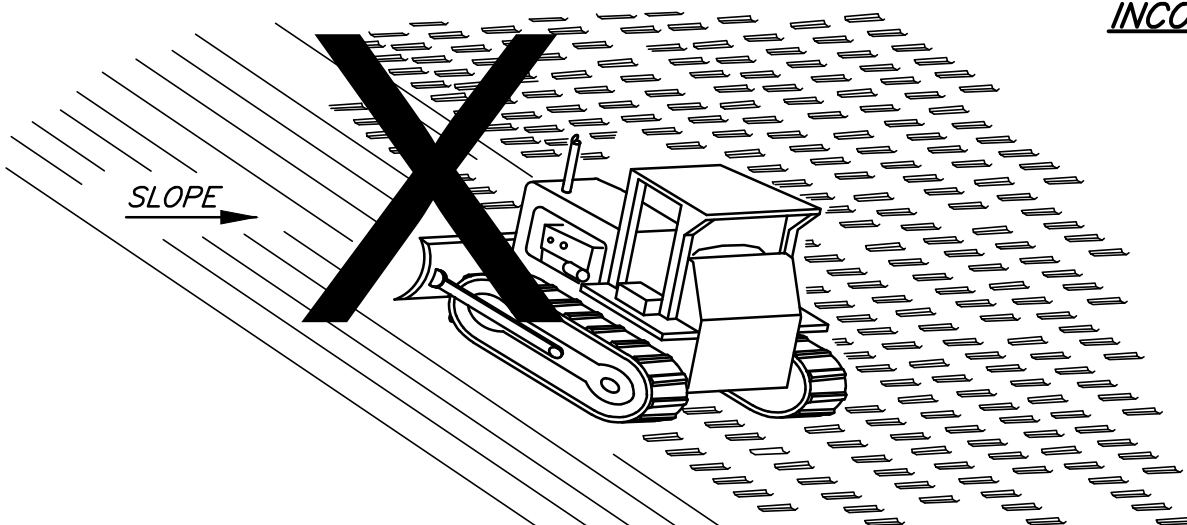


NOTE:  
GROOVE BY CUTTING  
SERRATIONS ALONG THE  
CONTOUR. IRREGULARITIES IN  
THE SOIL SURFACE CATCH  
RAINWATER, SEED, MULCH AND  
FERTILIZER.



**CORRECT**

'TRACKING' WITH MACHINERY UP  
AND DOWN THE SLOPE PROVIDES  
GROOVES THAT WILL CATCH  
SEED, RAINFALL AND REDUCE  
RUNOFF.



**INCORRECT**

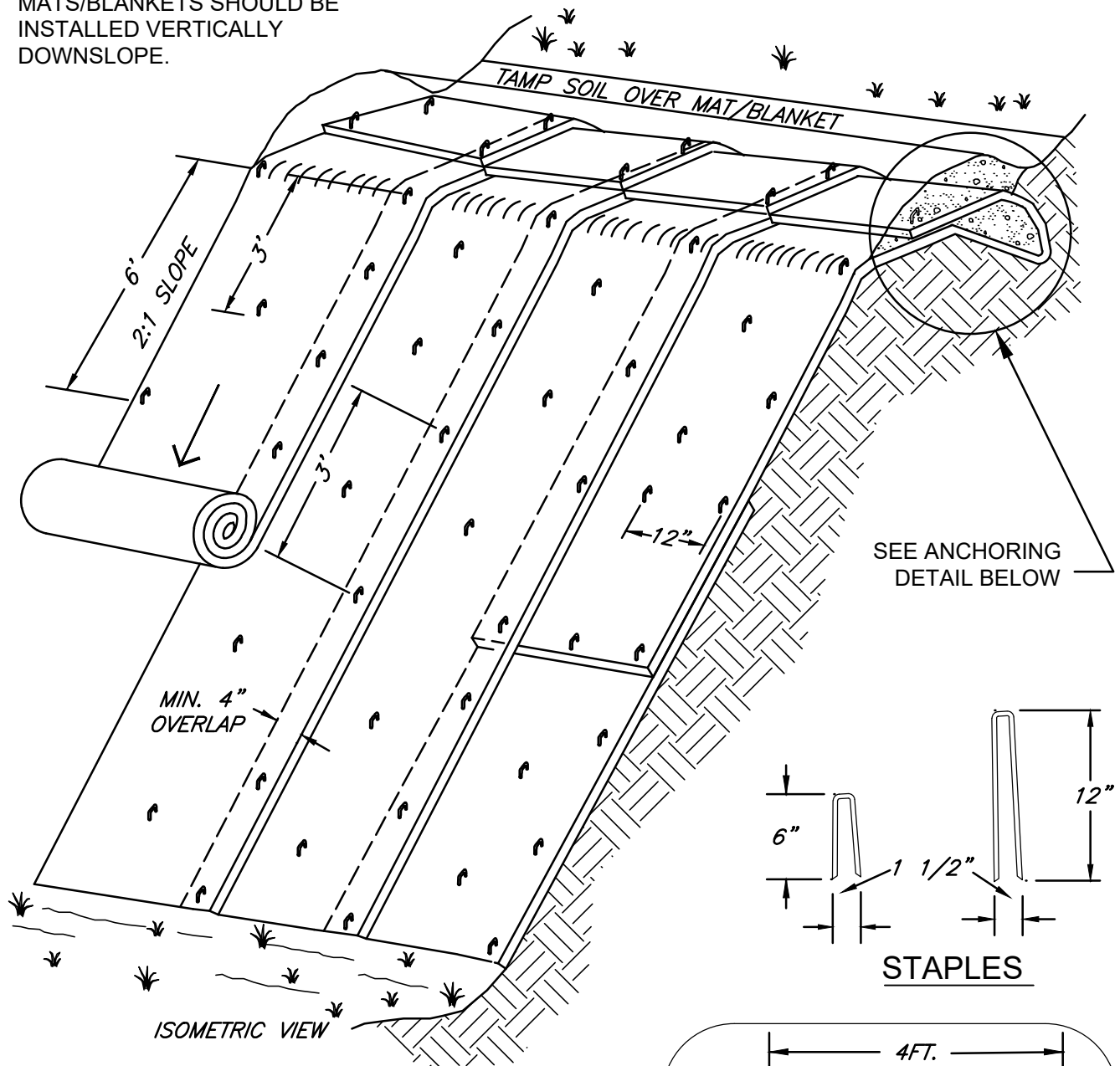
**TRACKING**  
DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

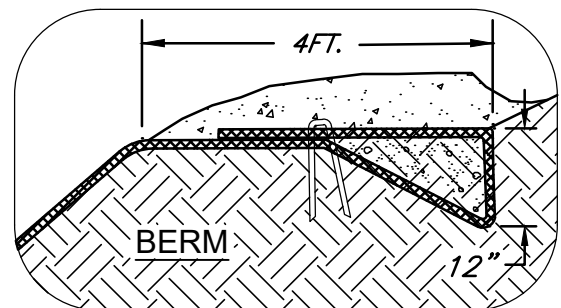
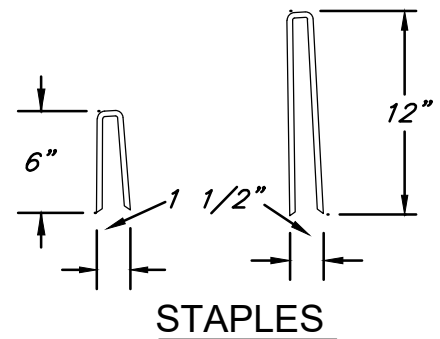
SURFACE ROUGHENING

Detail Drawing 3.3-A

MATS/BLANKETS SHOULD BE  
INSTALLED VERTICALLY  
DOWNSLOPE.



TYPICAL SLOPE  
SOIL STABILIZATION



ANCHORING DETAIL

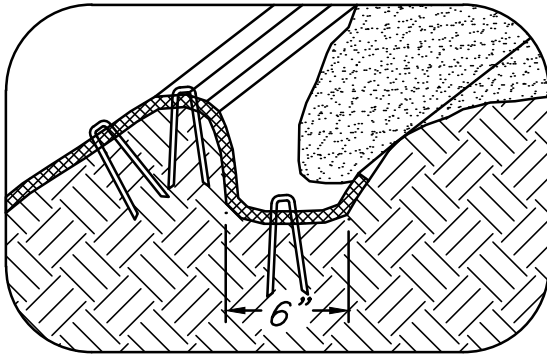
STAKING LAYOUT PER  
MANUFACTURER'S SPECIFICATIONS

NOT TO SCALE

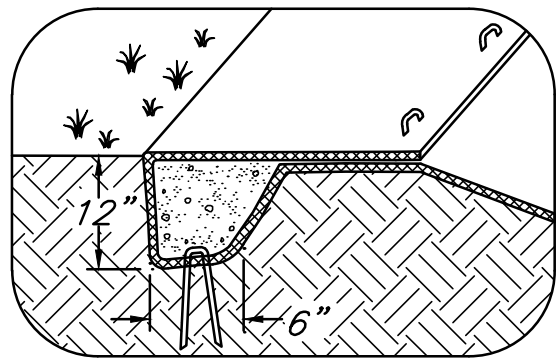
EROSION CONTROL MANUAL

ROLLED EROSION CONTROL PRODUCTS:  
SLOPE INSTALLATION

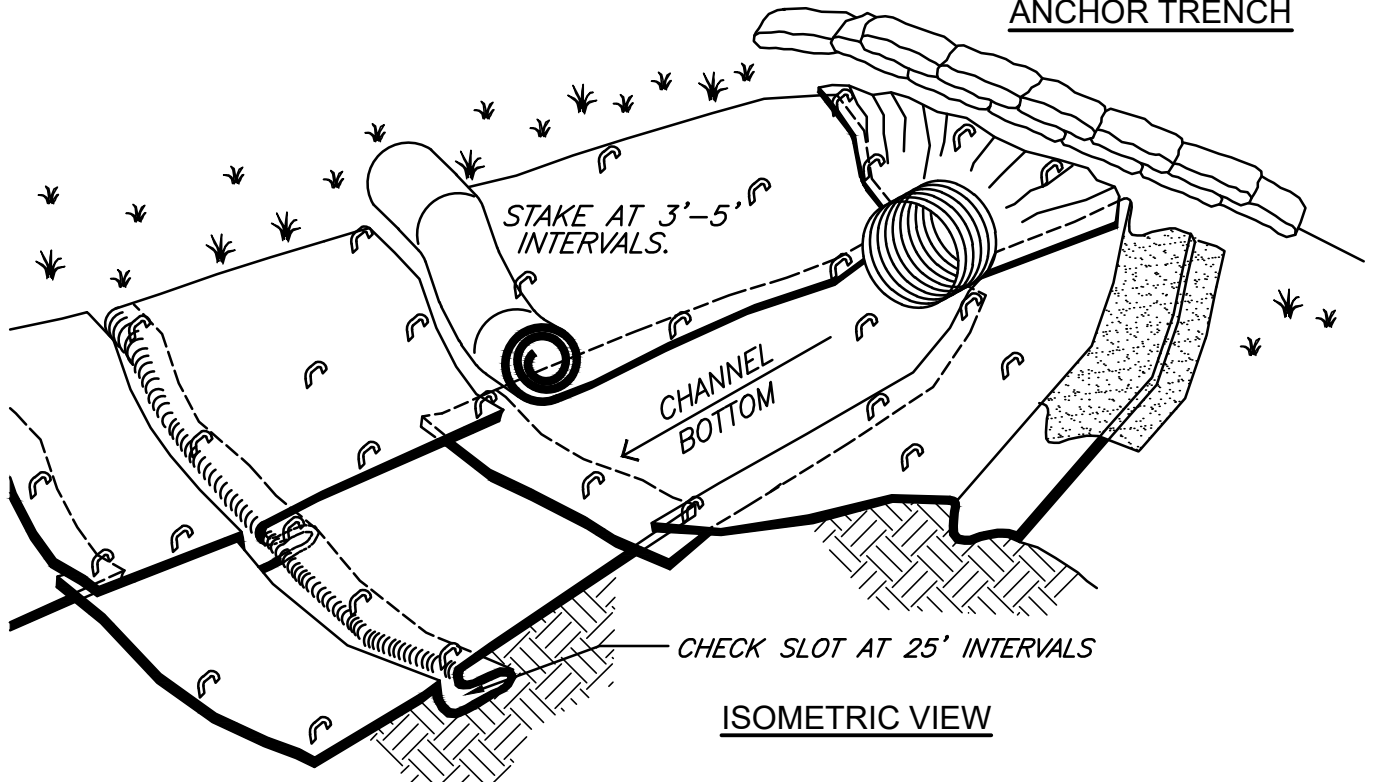
Detail Drawing 3.6-A



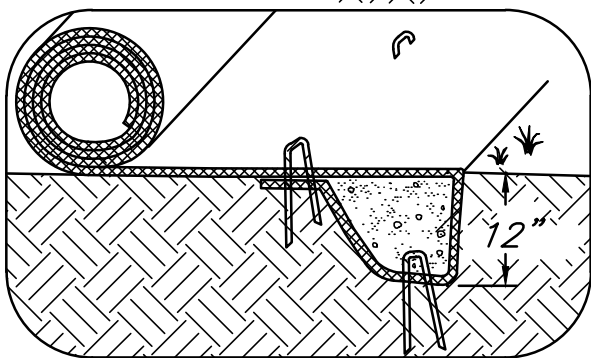
LONGITUDINAL ANCHOR TRENCH



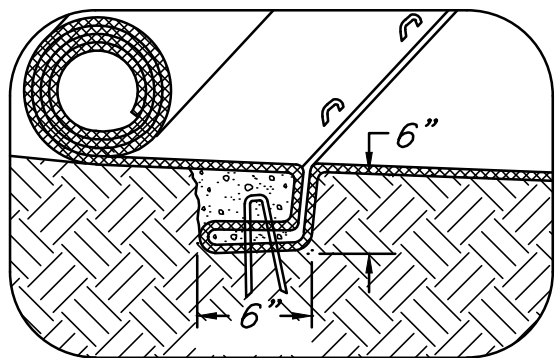
TERMINAL SLOPE AND CHANNEL  
ANCHOR TRENCH



ISOMETRIC VIEW



INITIAL CHANNEL ANCHOR TRENCH



INTERMITTENT CHECK SLOT

**NOTES:**

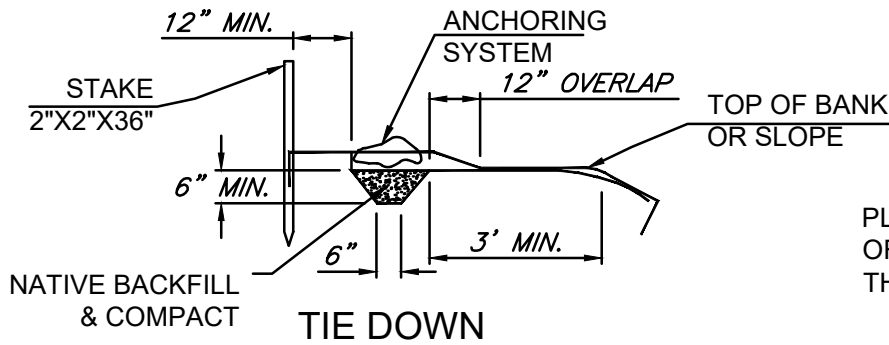
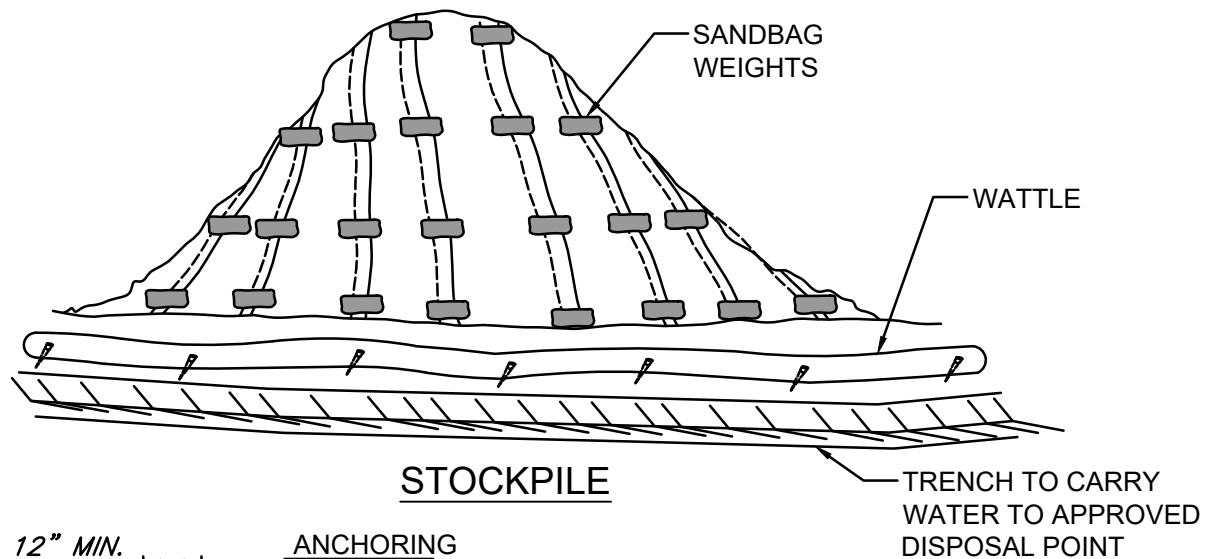
1. CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURERS SPECIFICATIONS.
2. STAKING OR STAPLING LAYOUT PER MANUFACTURERS SPECIFICATIONS.

DRAWING NOT TO SCALE

**EROSION CONTROL MANUAL**

**ROLLED EROSION CONTROL PRODUCTS:  
CHANNEL INSTALLATION**

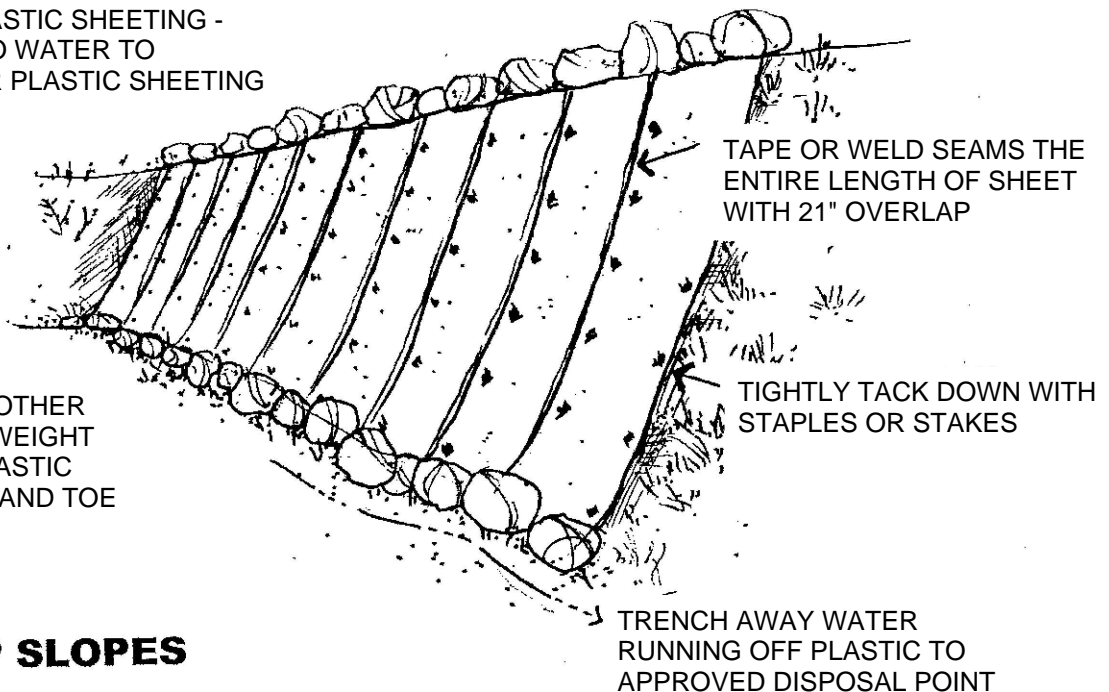
Detail Drawing 3.6-B



PLASTIC SHEET SHALL BE MADE OF POLYETHYLENE WITH A MIN. THICKNESS OF 6mm

TRENCH ANDN DIVERT WATER TO A CONTROLLED AND STABILIZED ROUTE AWAY FROM PLASTIC SHEETING - ALLOW NO WATER TO GOUNDER PLASTIC SHEETING

USE ROCK OR OTHER SUBSTANTIAL WEIGHT TO SECURE PLASTIC SHEET AT TOP AND TOE OF SLOPE



## STEEP SLOPES

DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

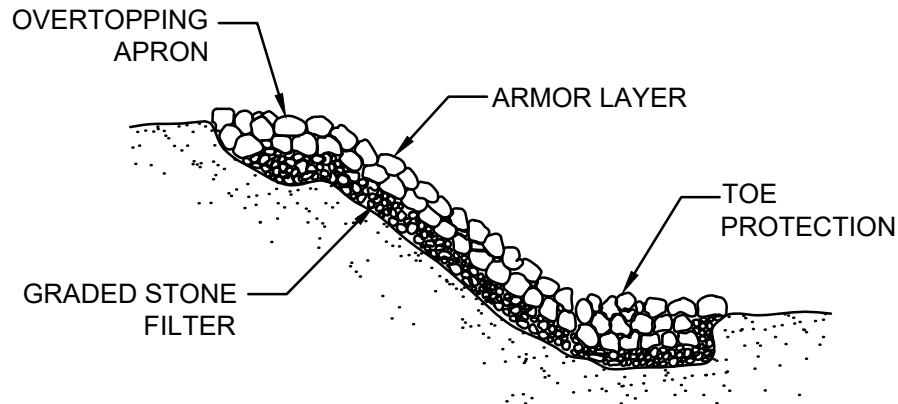
PLASTIC SHEETING

Detail Drawing 3.7-A

**NOTES:**

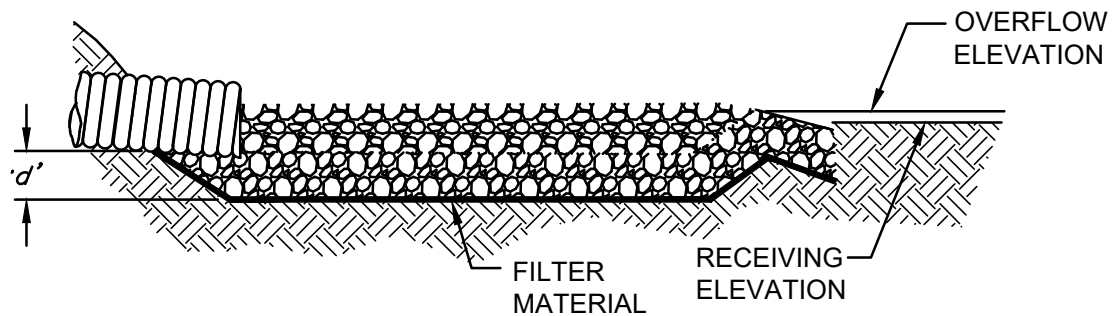
1. THE CELLS SHALL BE ANCHORED SECURELY TO PREVENT DISPLACEMENT AND DEFORMATION OF PANELS WHEN BACKFILLING.

2. INFILL FROM CREST OF THE SLOPE TO TOE TO PREVENT DISPLACEMENT. LIMIT DROP HEIGHT TO 3'.



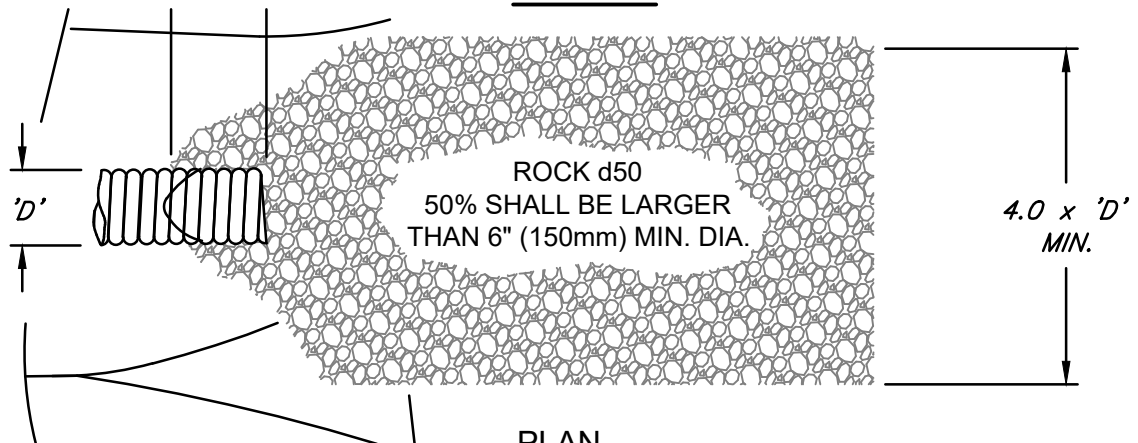
**TYPICAL ROCK REVETMENT**

DRAWING NOT TO SCALE



THICKNESS ('d') = 1.5 x MAX. ROCK DIAMETER - 6" (150mm) MIN.

**SECTION**



**PLAN**

**ENERGY DISSIPATOR**

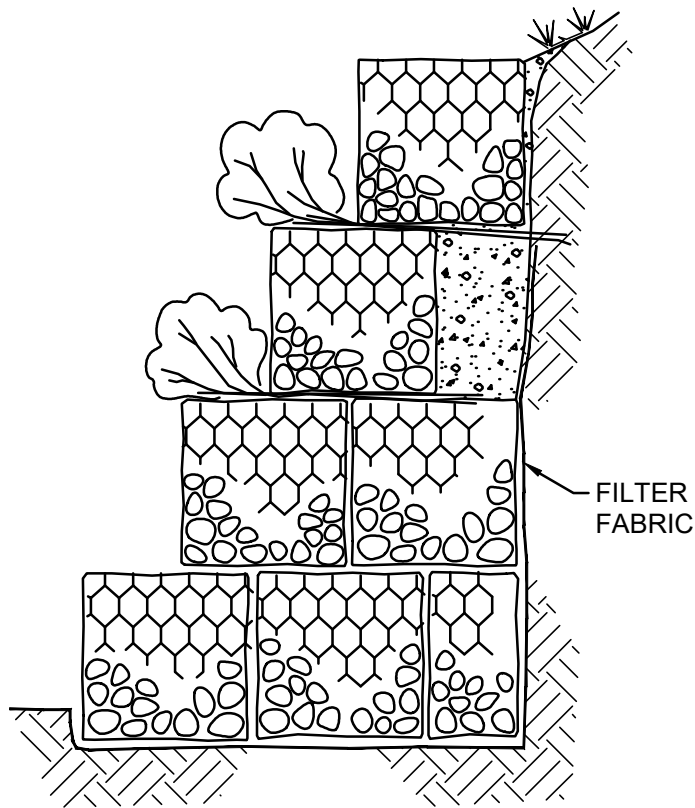
**NOTES:**

1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" (150mm) THICK MINIMUM GRADED GRAVEL LAYER.

**EROSION CONTROL MANUAL**

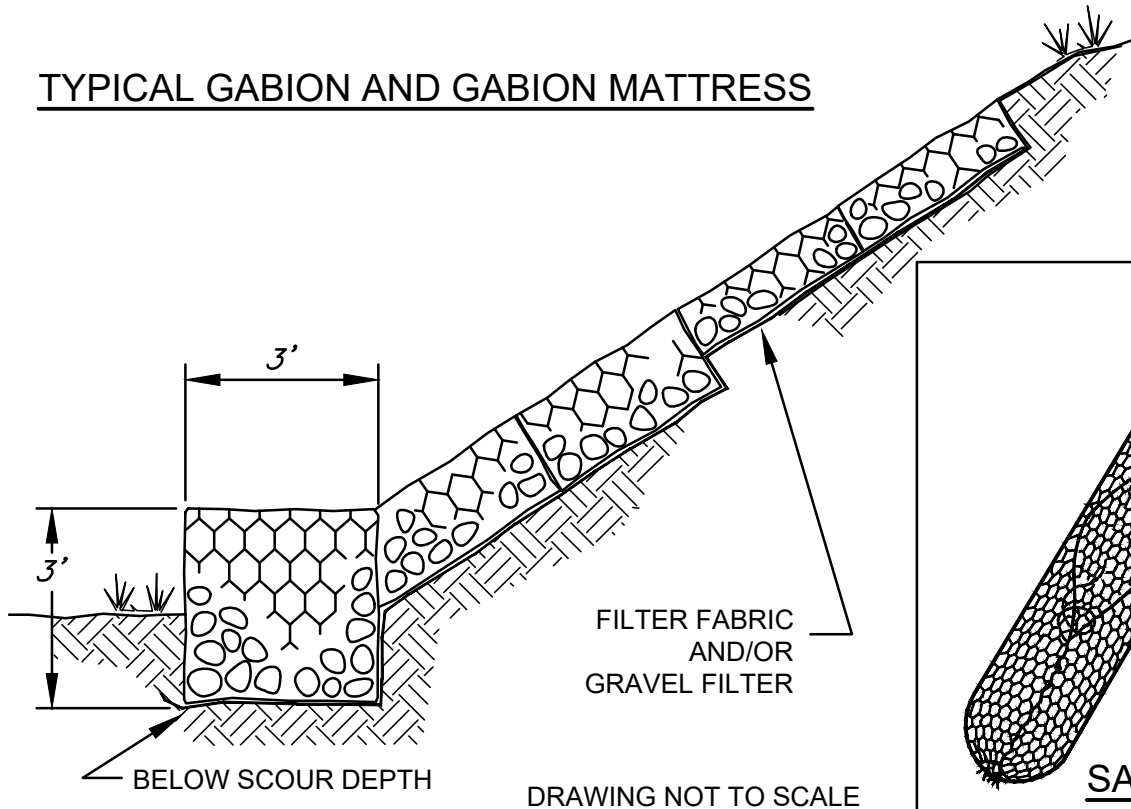
**ARMORING**

Detail Drawing 3.8-A



TYPICAL VEGETATED ROCK GABION

TYPICAL GABION AND GABION MATTRESS



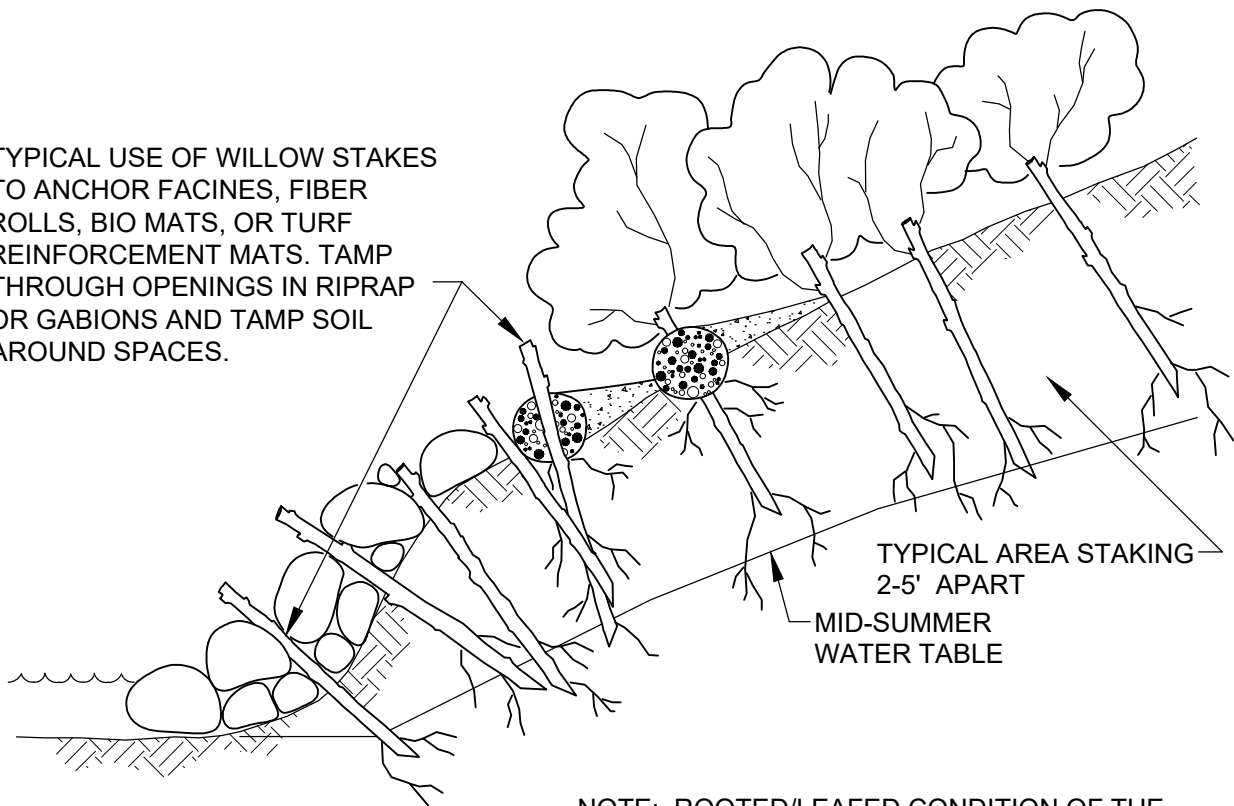
DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

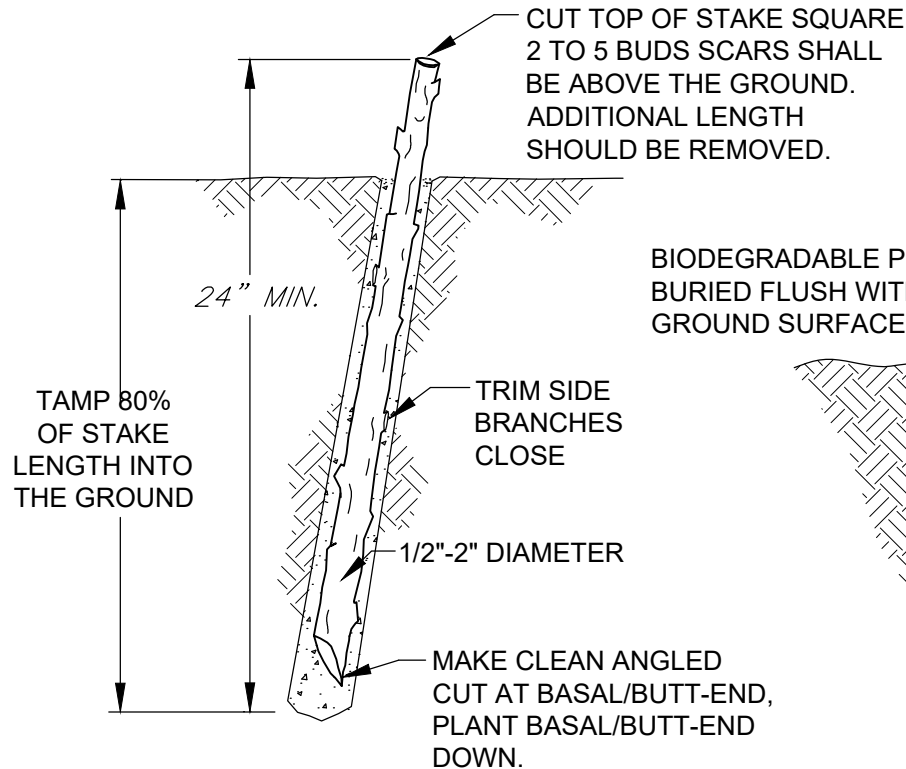
GABIONS

Detail Drawing 3.8-B

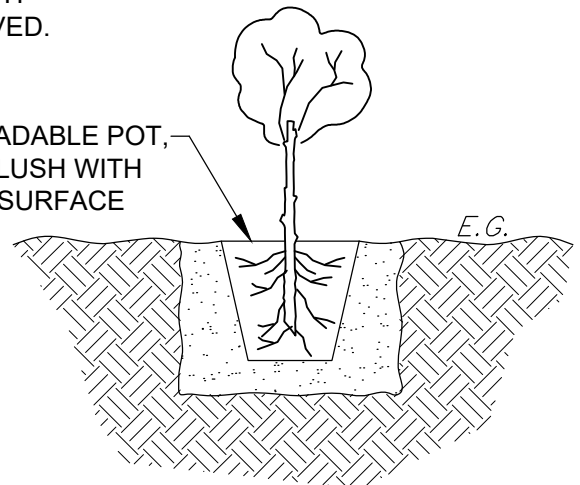
TYPICAL USE OF WILLOW STAKES TO ANCHOR FACINES, FIBER ROLLS, BIO MATS, OR TURF REINFORCEMENT MATS. TAMP THROUGH OPENINGS IN RIPRAP OR GABIONS AND TAMP SOIL AROUND SPACES.



NOTE: ROOTED/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE AT THE TIME OF INSTALLATION.



BIODEGRADABLE POT,  
BURIED FLUSH WITH  
GROUND SURFACE



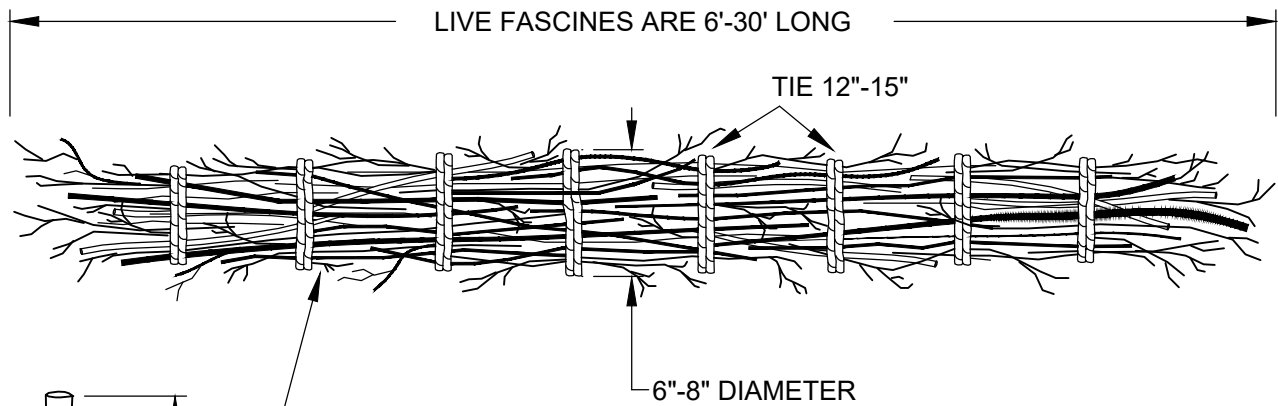
**4" POT BURY**

DRAWING NOT TO SCALE

**EROSION CONTROL MANUAL**

**BIOENGINEERED SOILS:  
LIVE STAKES**

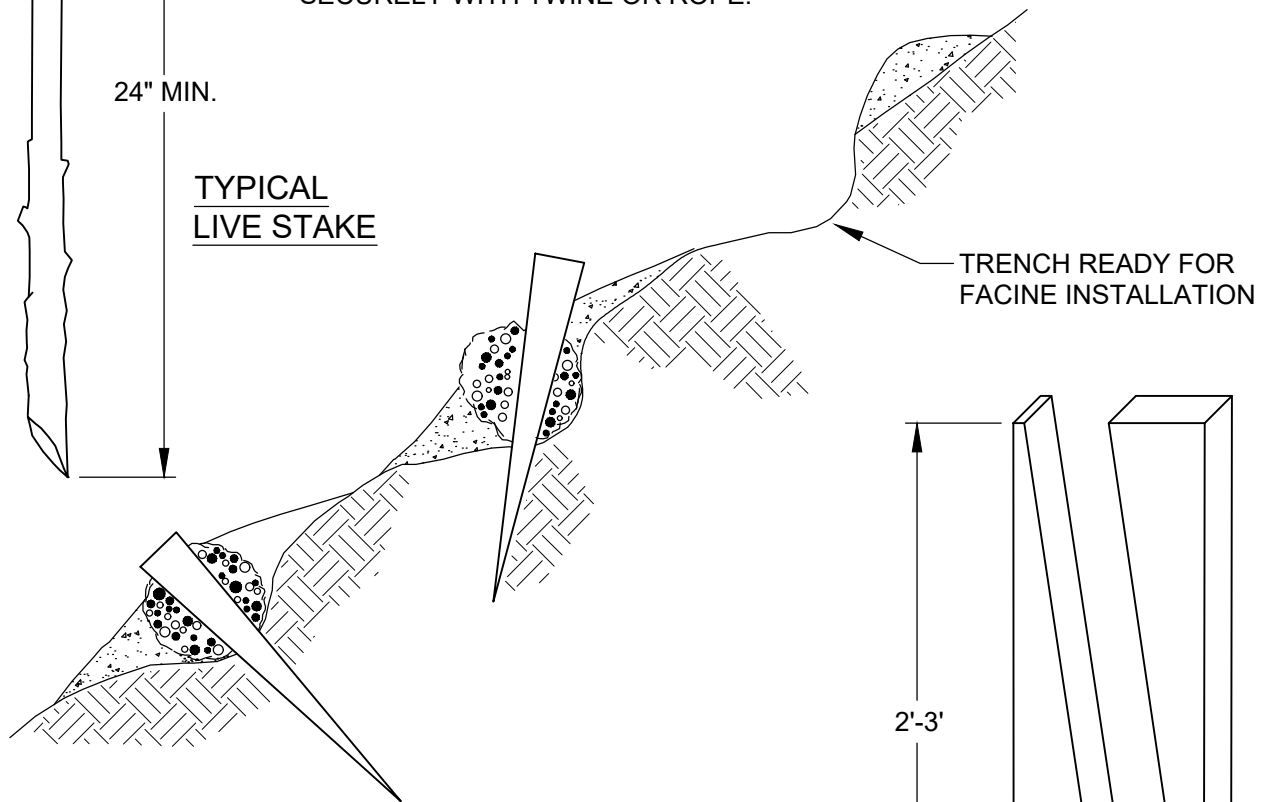
Detail Drawing 3.9-A



TYPICAL  
LIVE STAKE

PREPARE LIVE FASCINES WITH 1/4"-1" CUTTINGS,  
WITH ALTERNATING BASAL/BUTT-ENDS AND TIED  
SECURELY WITH TWINE OR ROPE.

6"-8" DIAMETER



TYPICAL DEAD STOUT STAKE SAW  
2X4 LUMBER ON DIAGONAL

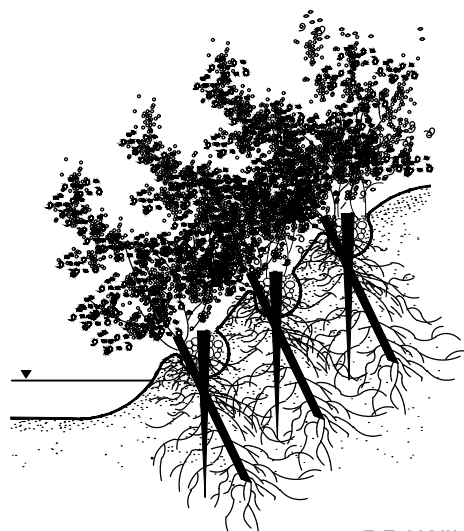
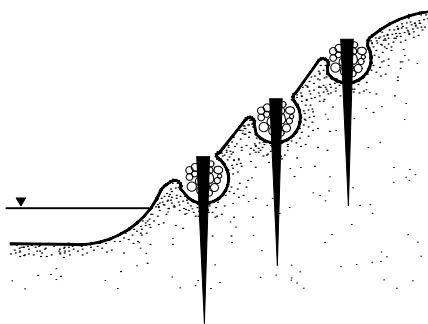
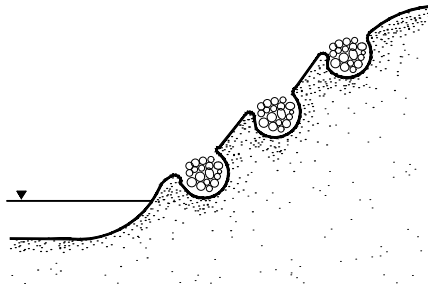
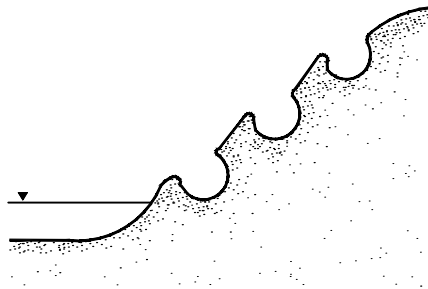
DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

BIOENGINEERED SOILS:  
LIVE FASCINES

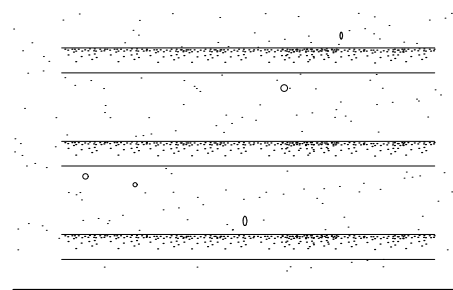
Detail Drawing 3.9-B



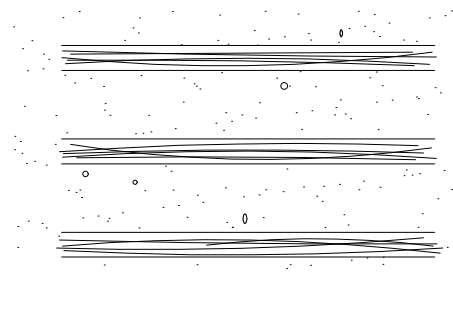


SECTION

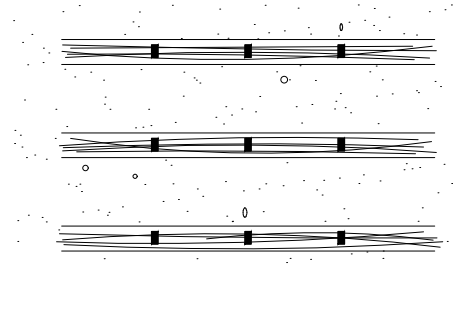
DRAWING NOT TO SCALE



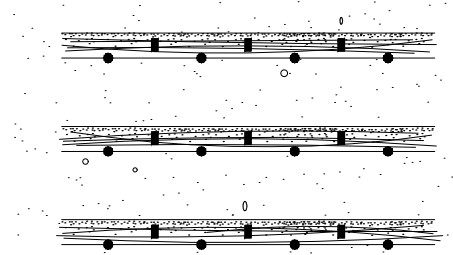
EDGE OF WATER



EDGE OF WATER



EDGE OF WATER



EDGE OF WATER

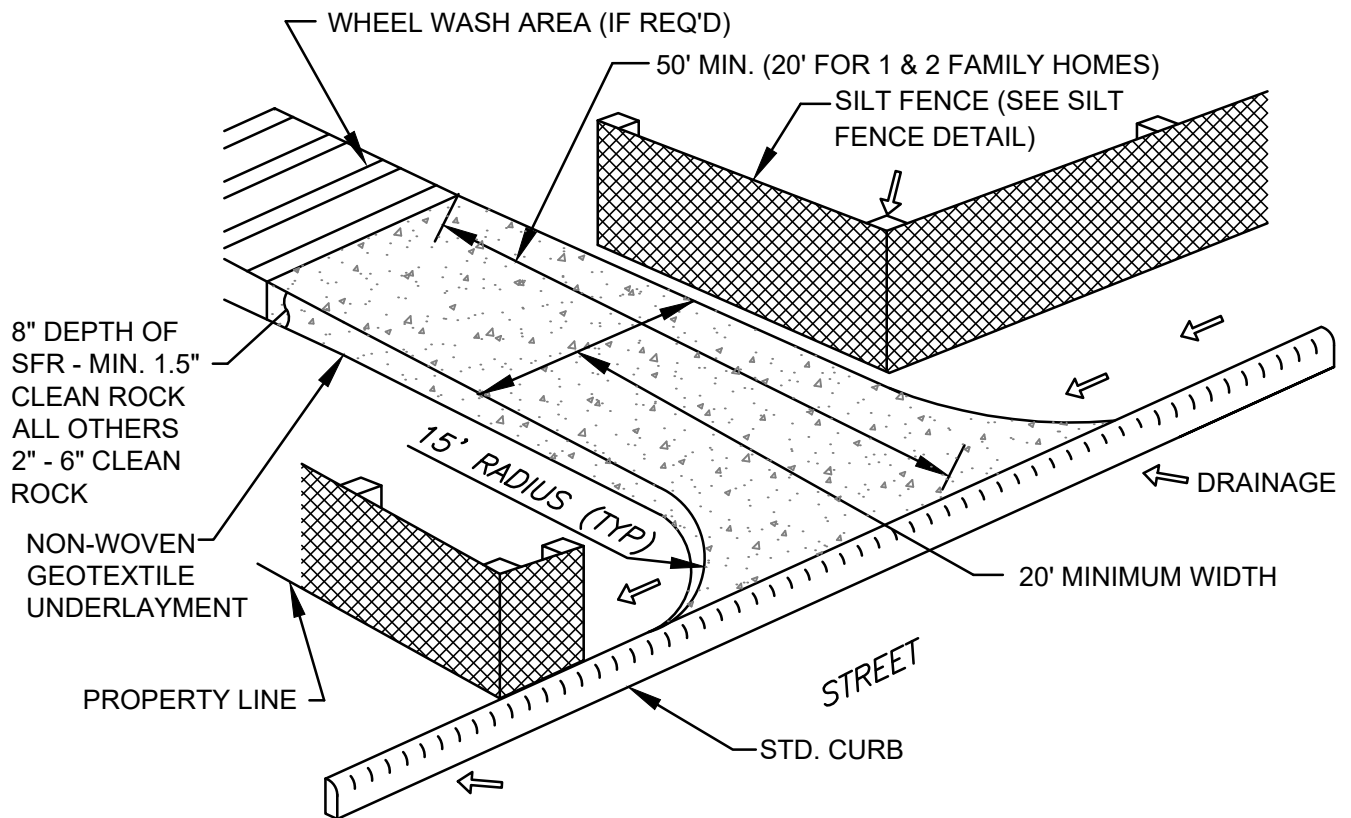
PLAN

Robbin B. Sotir & Associates, Inc.

# EROSION CONTROL MANUAL

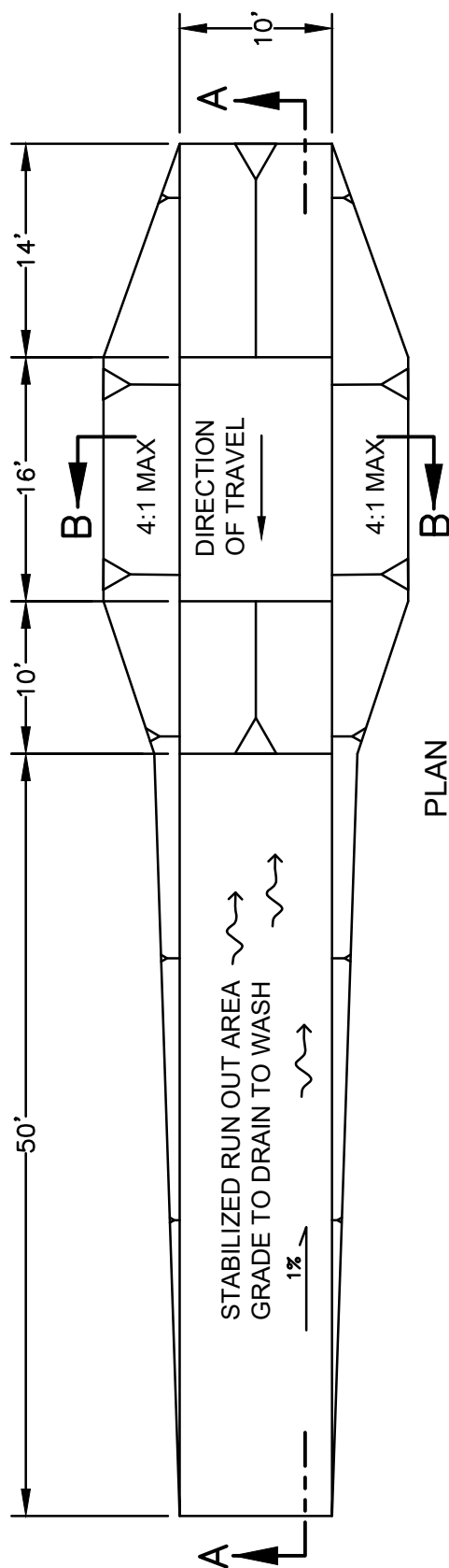
## BIOENGINEERED SOILS: LIVE FASCINE SLOPE INSTALLATION

Detail Drawing 3.9-C



### STABILIZED CONSTRUCTION ACCESS

NOTE:  
CURB RAMP INSTALLATION SHALL NOT IMPEDED STORMWATER FLOWS,  
VEHICLE TRAFFIC, AND/OR BICYCLE TRAFFIC.

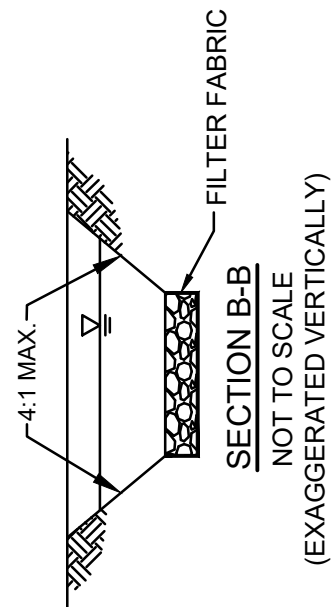
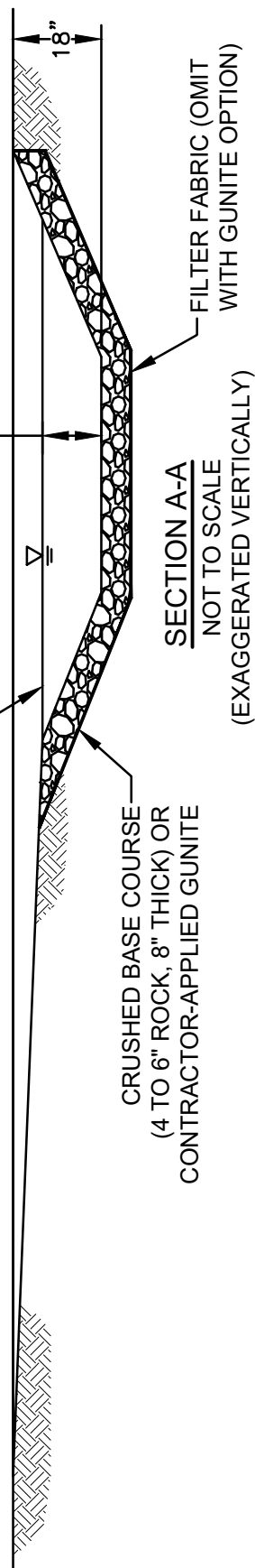


PLAN

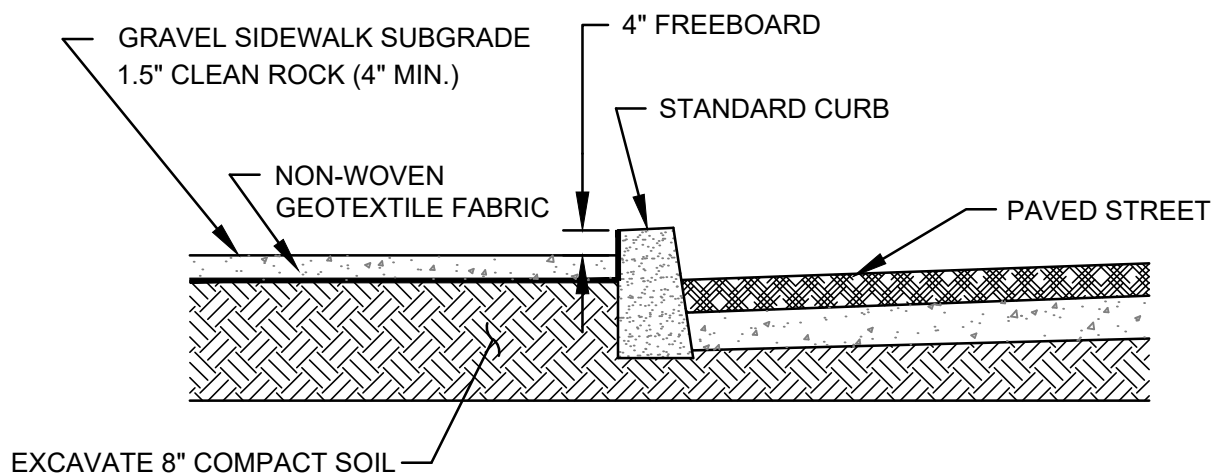
NOT TO SCALE

DRAWING NOT TO SCALE

CONTRACTOR TO PROVIDE WATER SUPPLY  
TO MAINTAIN 12" OF WATER AT ALL TIMES



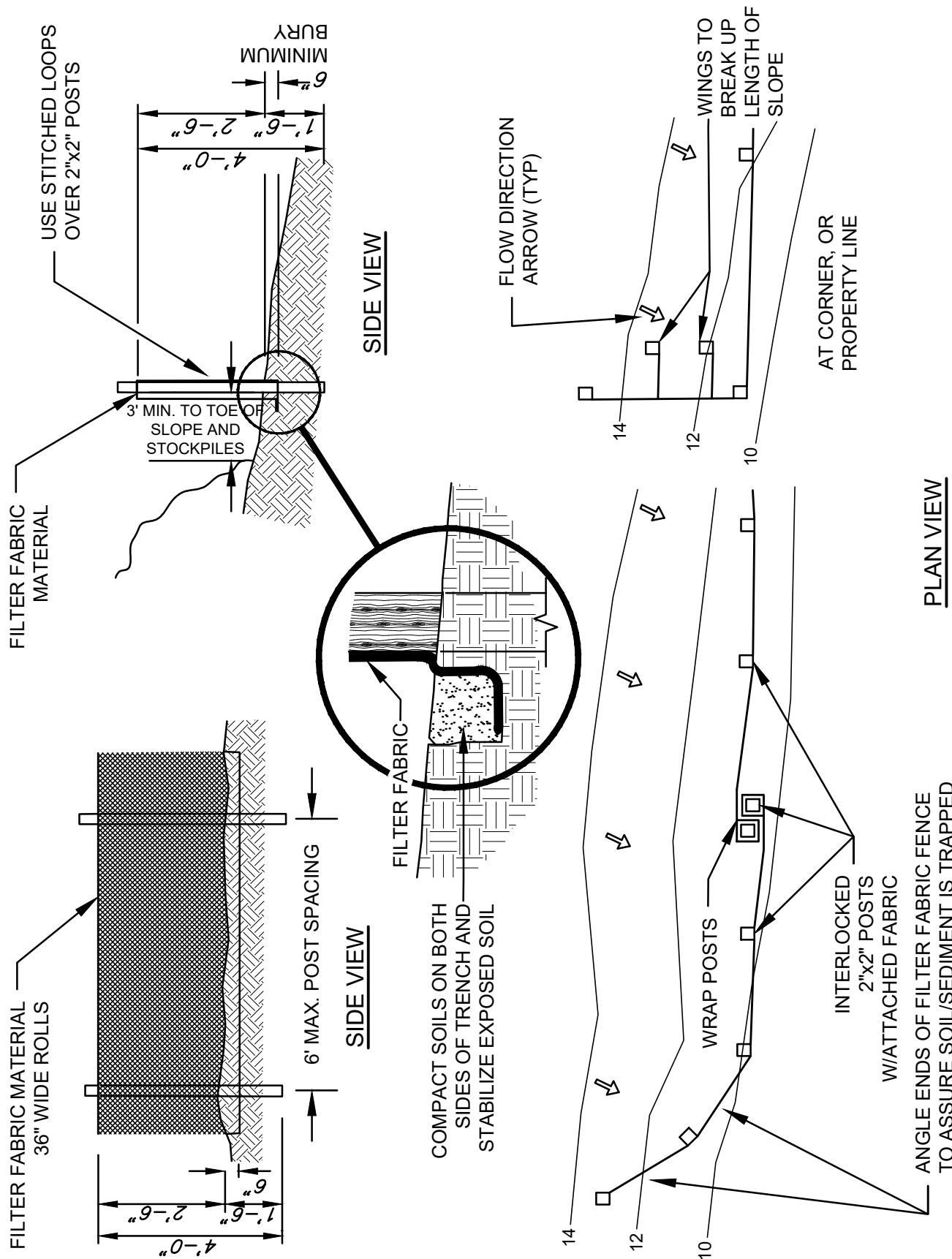
- NOTE:  
1. CONTRACTOR TO REMOVE ACCUMULATED  
SEDIMENT FROM WHEEL WASH; MAY BE  
PIPED TO AN APPROVED SEDIMENT TRAP.
- REFERENCE:  
USE GEOTEXTILE FABRIC WITH AGGREGATE  
FOR A TEMPORARY TIRE WASH.



SIDEWALK SUB-GRADE  
DRAWING NOT TO SCALE

NOTE:

1. REMOVAL AND CLOSURE OF  
SIDEWALK REQUIRES ADDITIONAL  
PBOT PERMIT.
2. 4" FREEBOARD MINIMUM AT  
STANDRAD CURB.
3. STRAW WATTLE OR EQUIVALENT  
SEDIMENT CONTROLS REQUIRED  
AT PROPERTY LINE.



DRAWING NOT TO SCALE

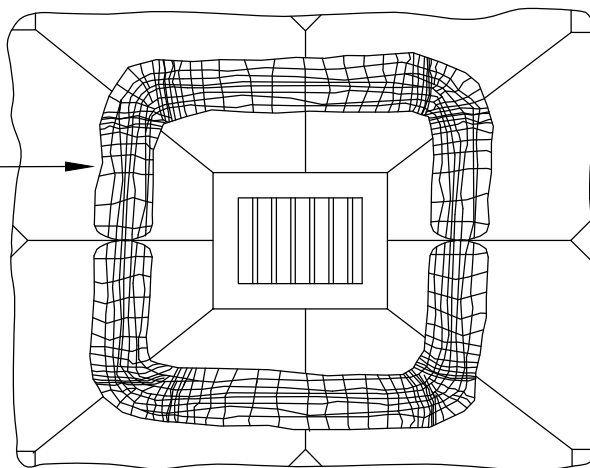
## EROSION CONTROL MANUAL

## TEMPORARY SEDIMENT CONTROL FENCE

Detail Drawing 3.15-A

**\*BIOBAGS MUST BE REMOVED AT END OF JOB**

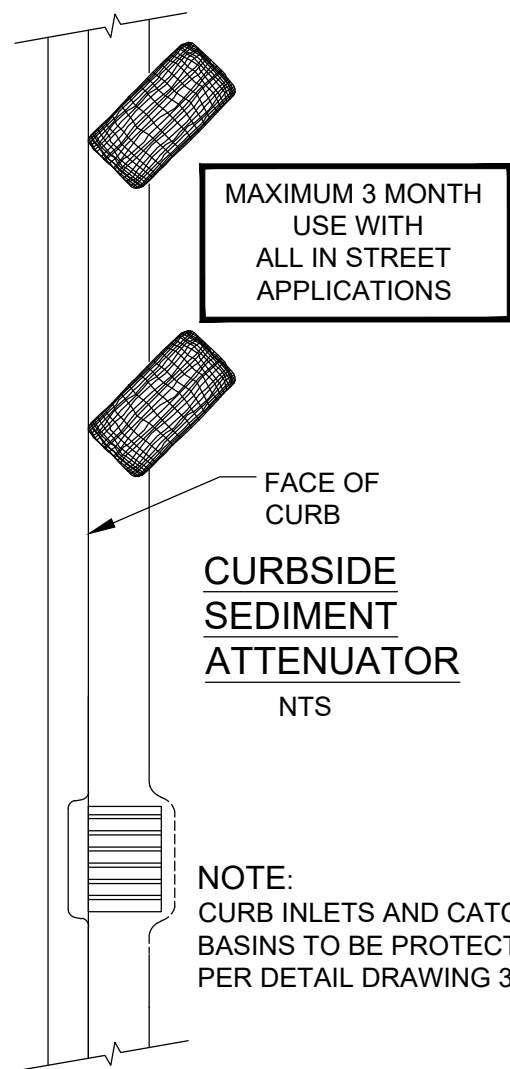
WEIGHTED FIBER OR  
REUSABLE GEOTEXTILE  
ROLL REQUIRED ON PAVED  
SURFACES - ROLLS TO BE  
SECURED WITH 1x2  
WOODEN STAKES WHEN  
USED ON PERVIOUS  
SURFACES



**NOTE:**  
CATCH BASIN INSERT  
REQUIRED.

### AREA DRAIN

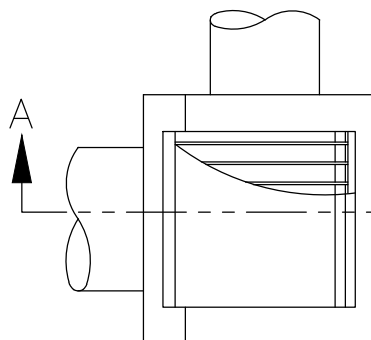
NTS



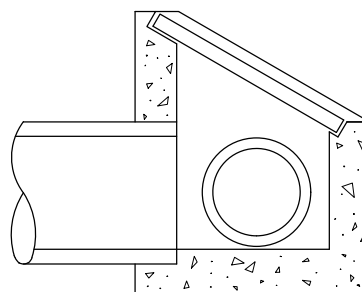
### CURBSIDE SEDIMENT ATTENUATOR

NTS

MAXIMUM  
3 MONTH USE-  
FOR ROADWAY  
APPLICATIONS ONLY\*



### PLAN



### SECTION A-A

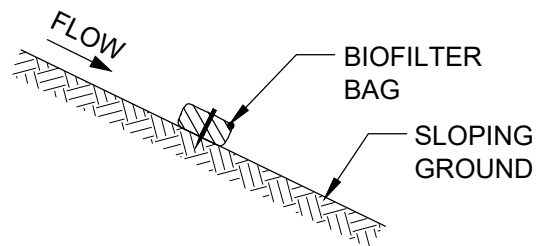
### DITCH INLET

NTS

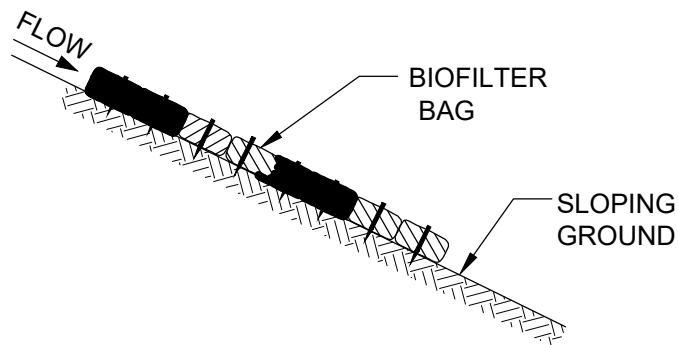
GEOTEXTILE BAGS  
REQUIRED FOR  
RIGHT OF WAY

FLOW

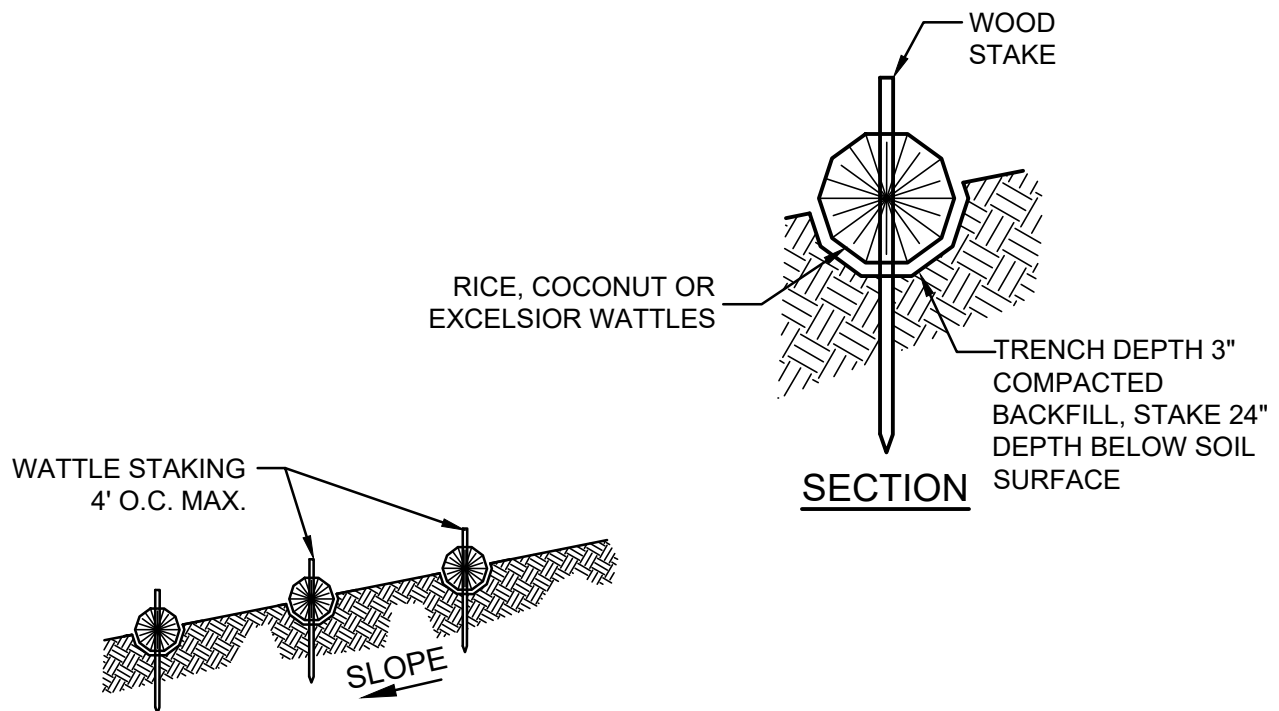
NOTE:  
STAKING OF BAGS MAY BE  
REQUIRED WITH EITHER  
METHOD. USING (2) 1"x 2" WOOD  
STAKES OR APPROVED EQUAL  
PER BAG.



**ALTERNATE #1**  
DRAWING NOT TO SCALE

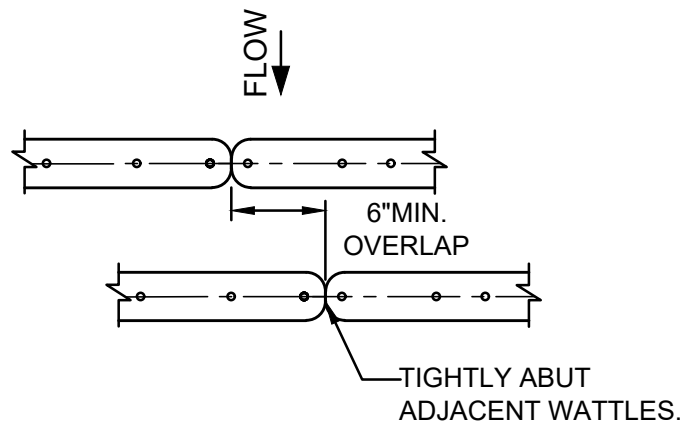


**ALTERNATE #2**  
DRAWING NOT TO SCALE



PLACE WATTLES ALONG SLOPE CONTOURS.

### PROFILE



### PLAN VIEW

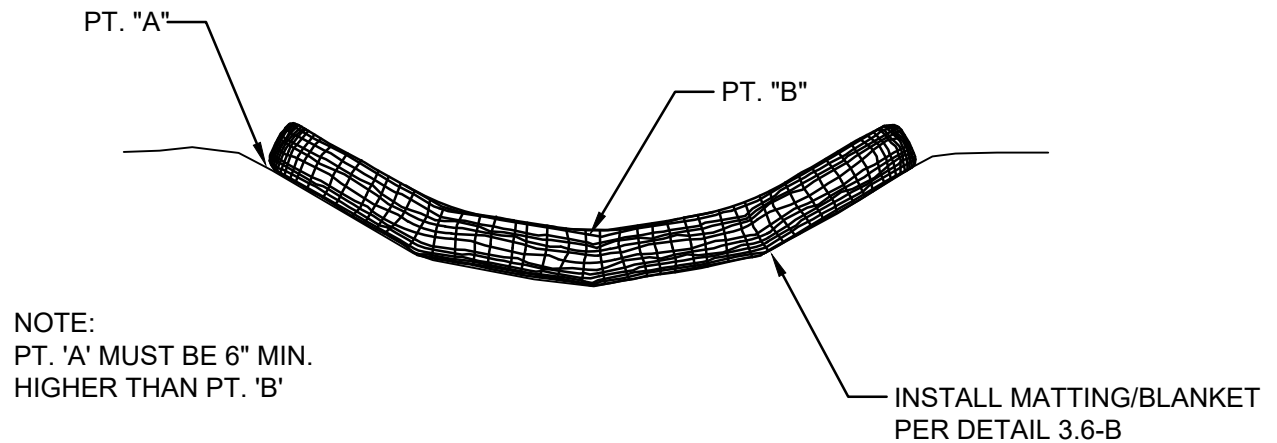
#### NOTES:

##### 1. STAKING SPECIFICATIONS:

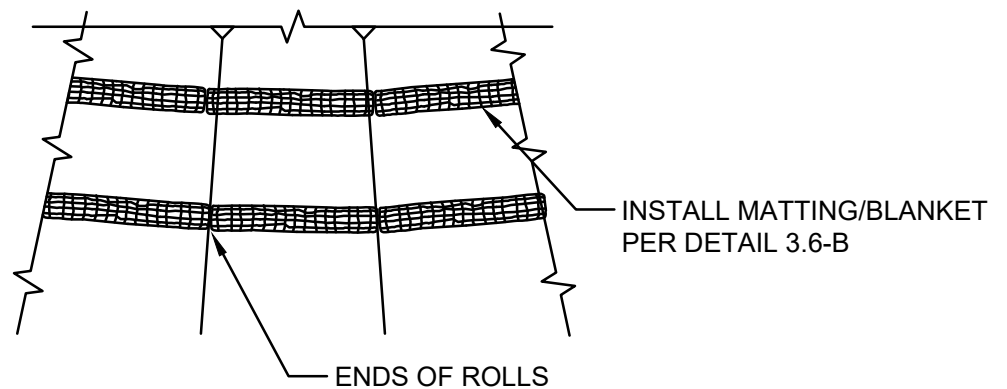
- 1"x2" WOODEN STAKES
- ADDITIONAL STAKES MAY BE INSTALLED ON DOWNHILL SIDE OF WATTLES, ON STEEP SLOPE OR HIGHLY EROSIIVE SOILS.



NOTE:  
STAKING OF ROLLS REQUIRED  
USING (2)1"x 2" WOOD STAKES  
OR APPROVED EQUAL PER BAG.



### CROSS SECTION



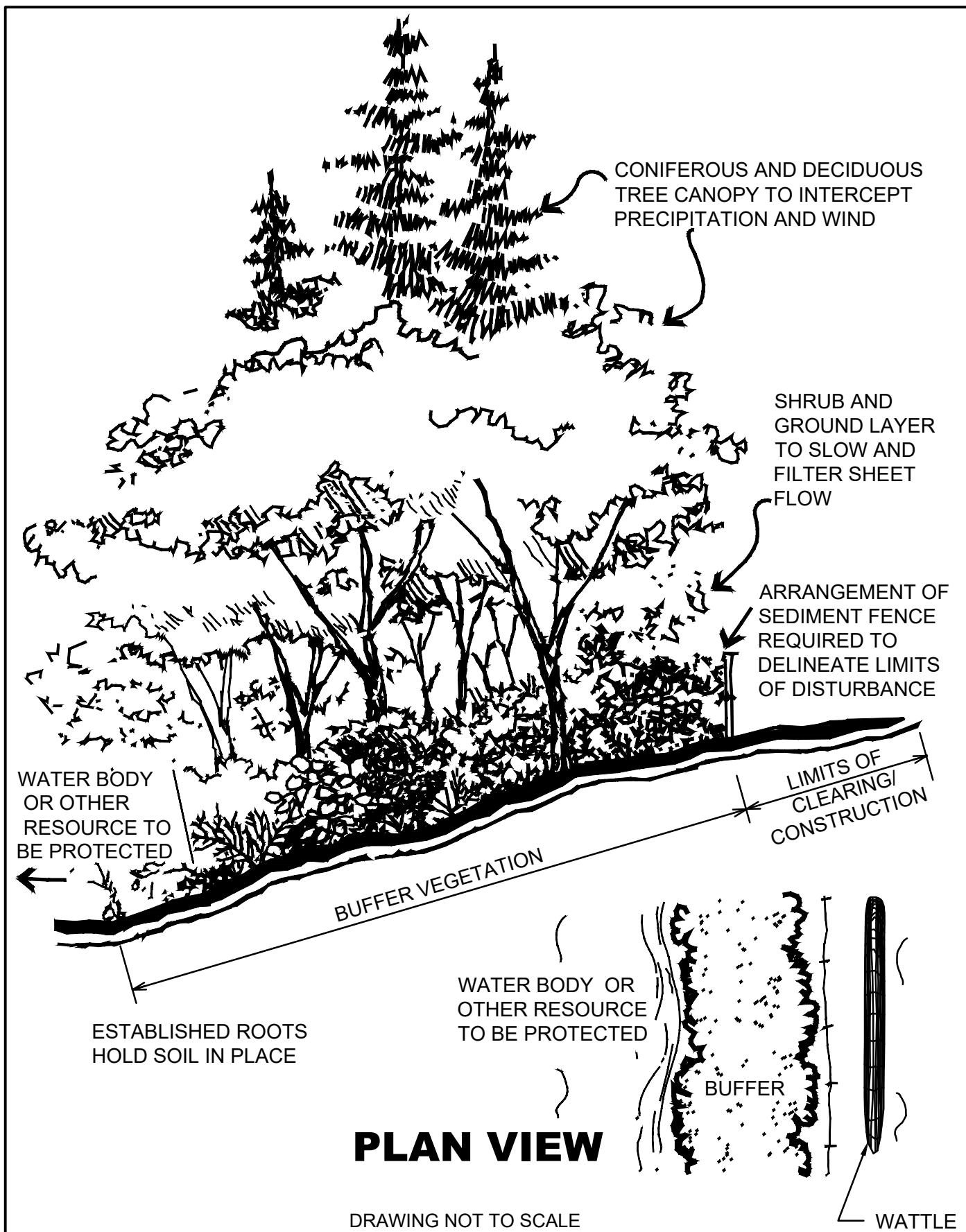
### PLAN VIEW

DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

FIBER ROLLS AND WATTLES:  
DITCH/SWALE INSTALLATION

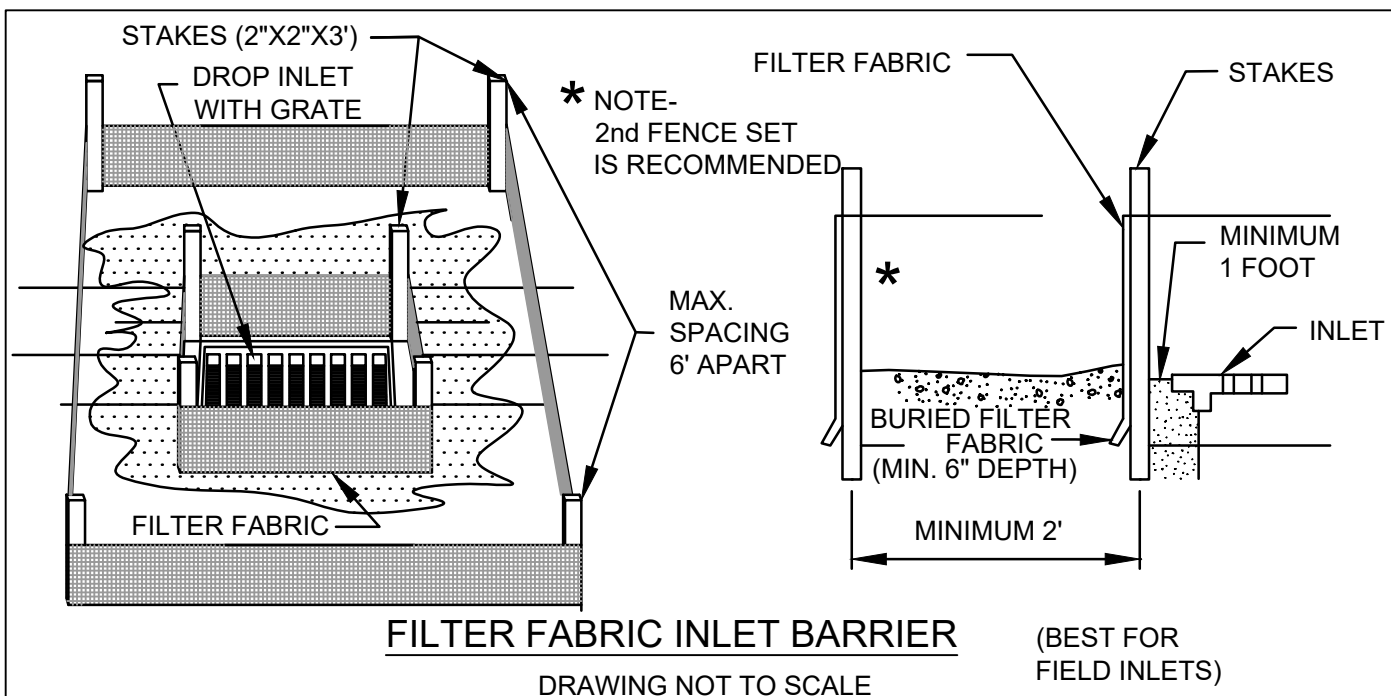
Detail Drawing 3.17-B



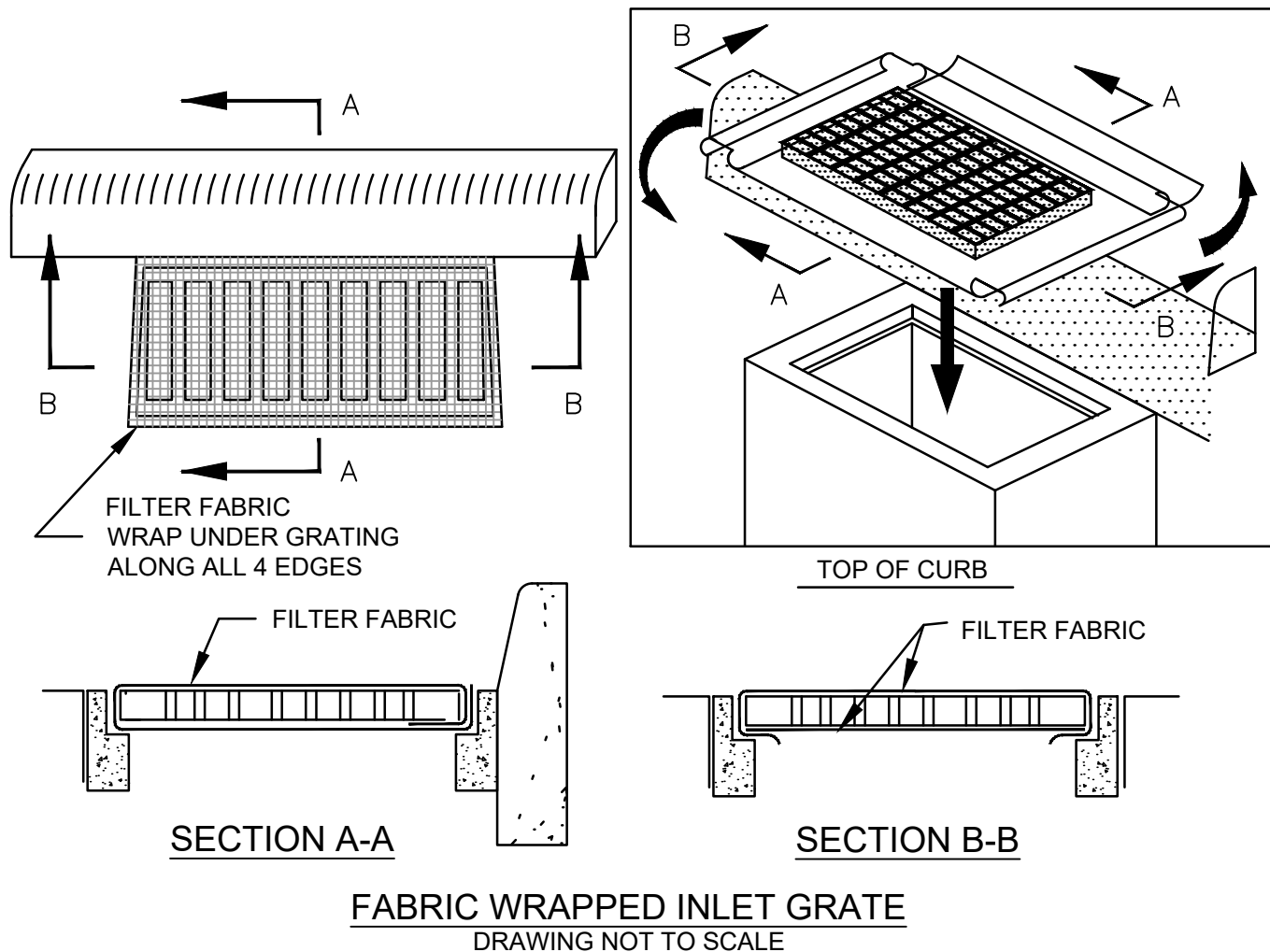
EROSION CONTROL MANUAL

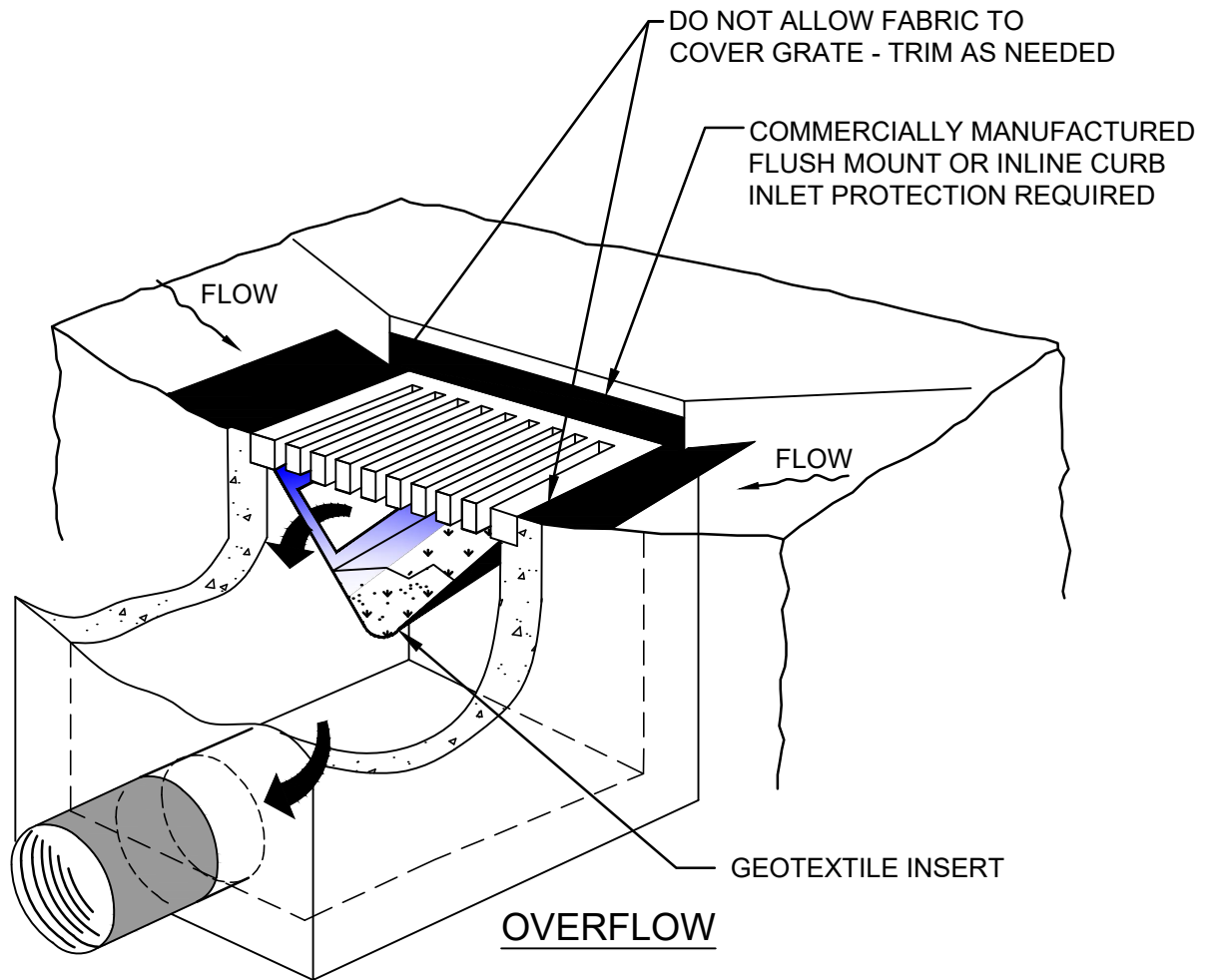
VEGETATIVE BUFFER

Detail Drawing 3.18-A



### FOR EMERGENCY 24HR. PROTECTION ONLY





NOTE:  
 RECESSED CURB INLET MUST BE PROTECTED WHEN CURB INLET IS PRESENT.  
 SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

COMMERCIALLY MANUFACTURED DEVICES RATED AS "HIGH FLOW" REQUIRED IN LOCATIONS WHERE FREQUENT FLOODING OCCURS. GRATES THAT ARE NOT REMOVABLE MAY UTILIZE COMMERCIALLY MANUFACTURED "TOP OF GRATE" DEVICE.

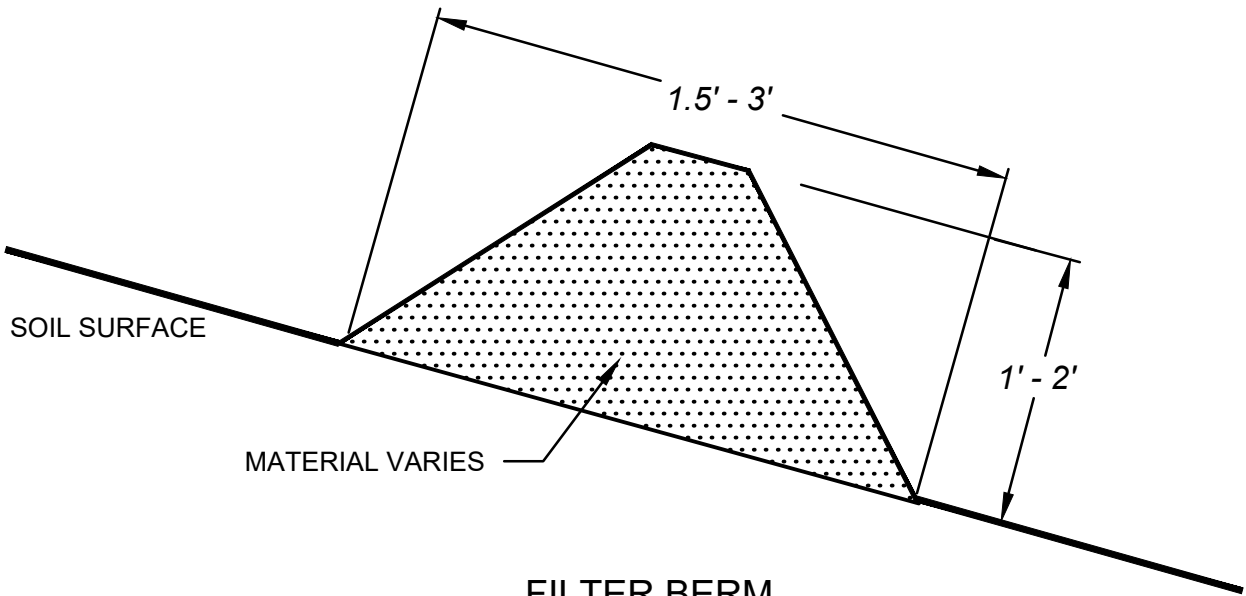
DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

STORM DRAIN INLET INSERT

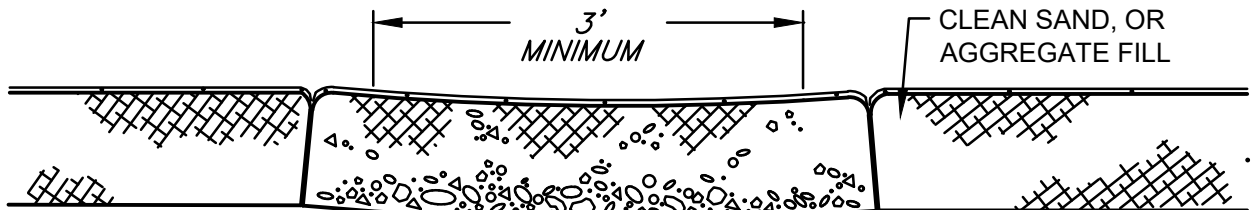
Detail Drawing 3.19-B

## CROSS SECTION



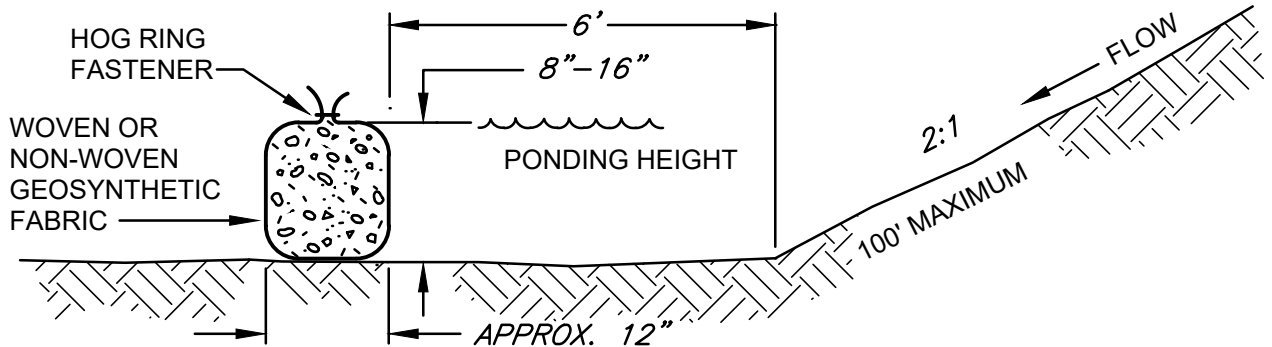
## FILTER BERM

## FRONT VIEW



LOCATE DRAINAGE CHAMBER AT  
LOW SPOT FOR ADEQUATE  
DRAINAGE OF PONDED STORM  
WATER

## SIDE VIEW



Filter Berm - loose exhibit  
and ecoberm terminology  
- TCEQ in Texas

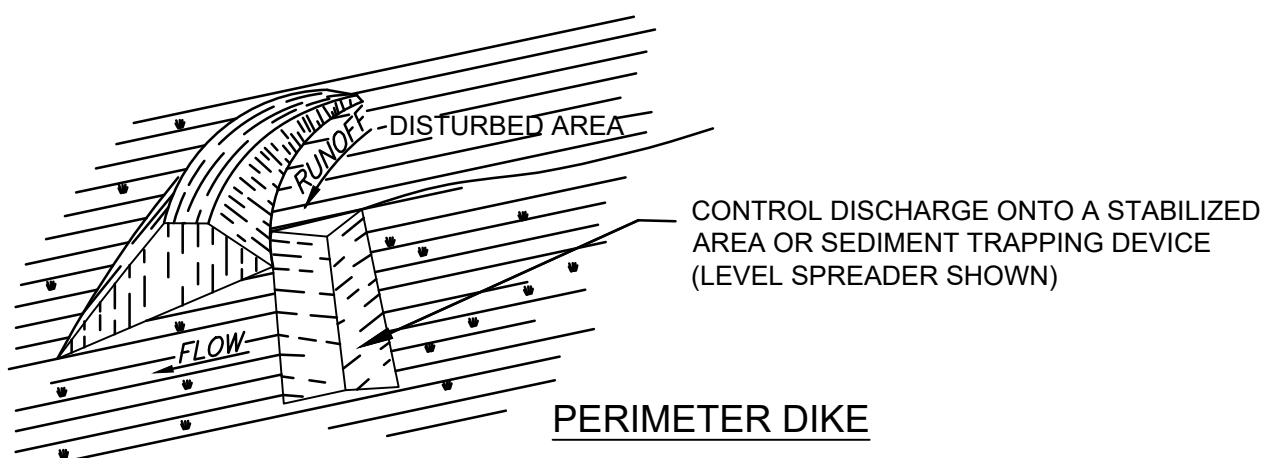
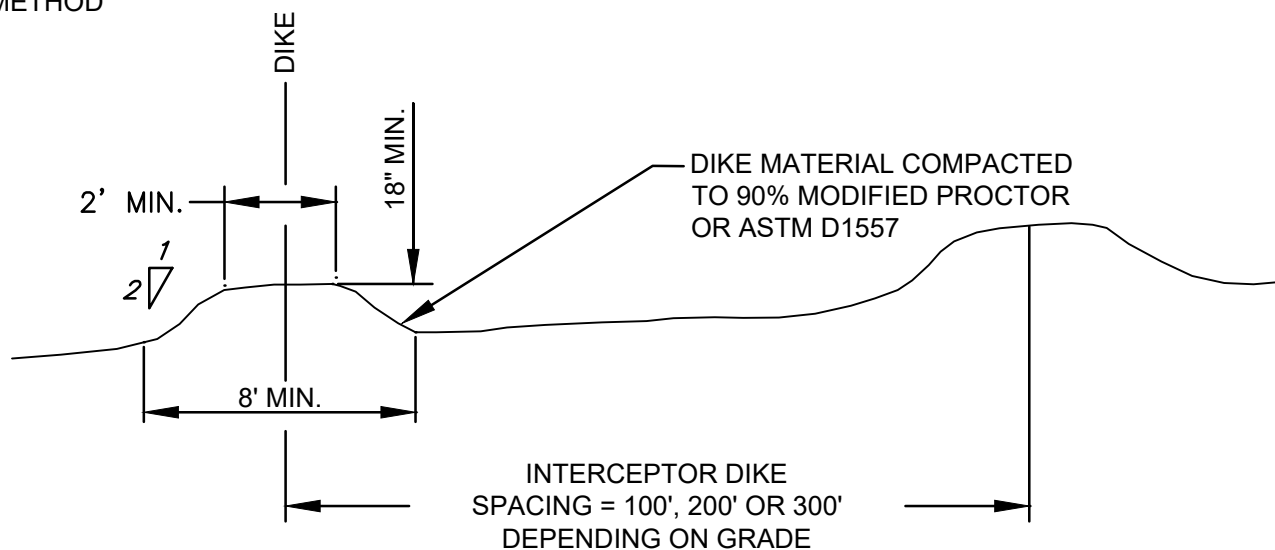
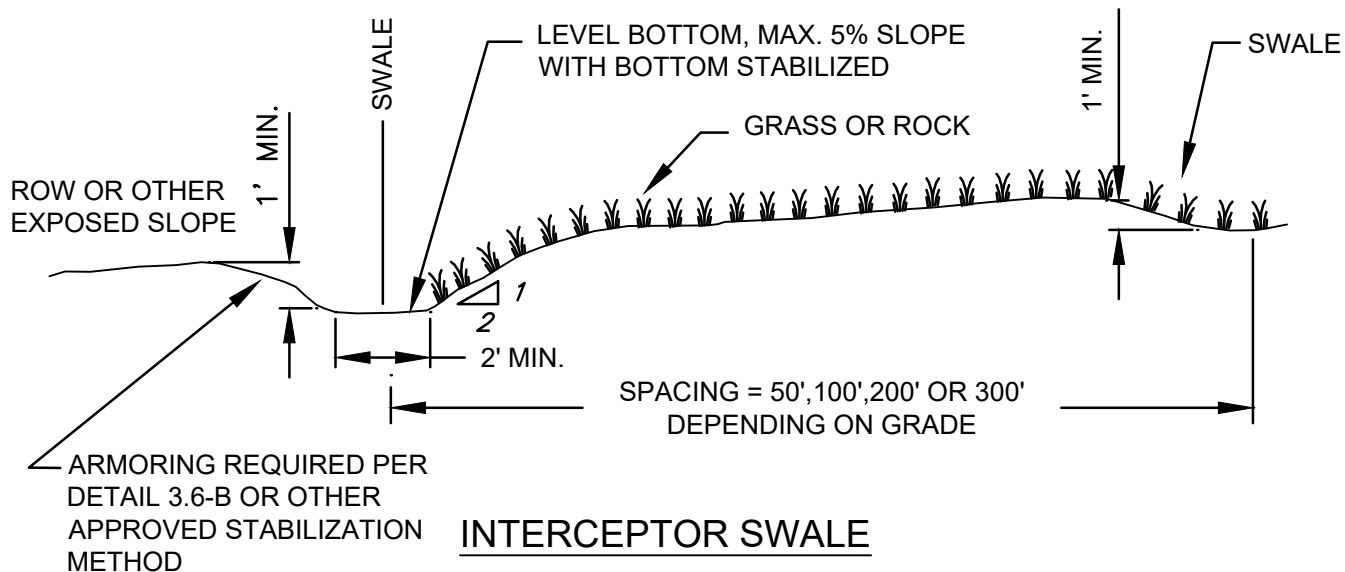
## CONTINUOUS BERM

DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

FILTRATION BERM

Detail Drawing 3.20-A

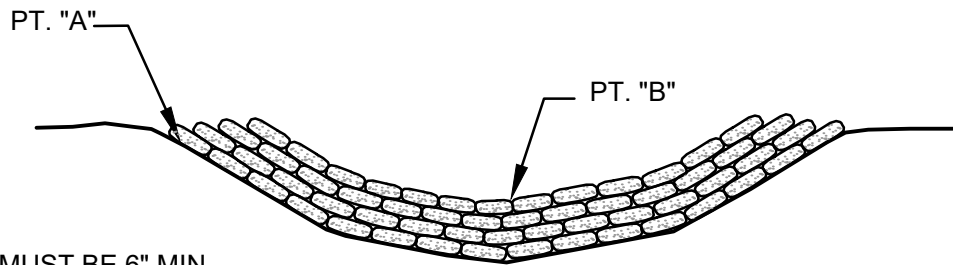


DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

DIVERSION  
DIKES AND SWALES

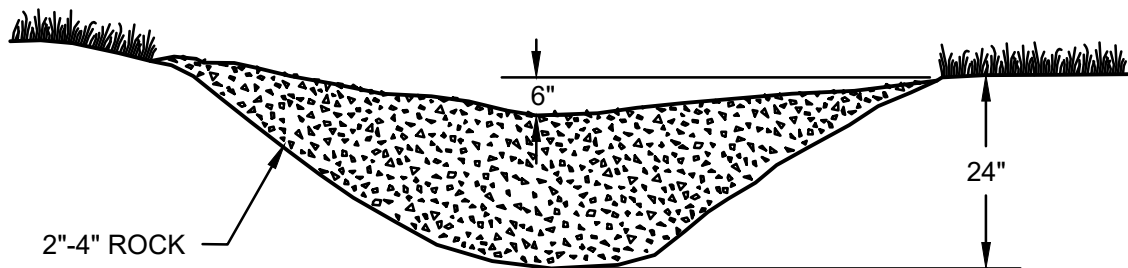
Detail Drawing 3.21-A



NOTE:  
PT. 'A' MUST BE 6" MIN.  
HIGHER THAN PT. 'B'

### SAND BAG CHECK DAM

MAINTAIN 6"  
SPILLOVER



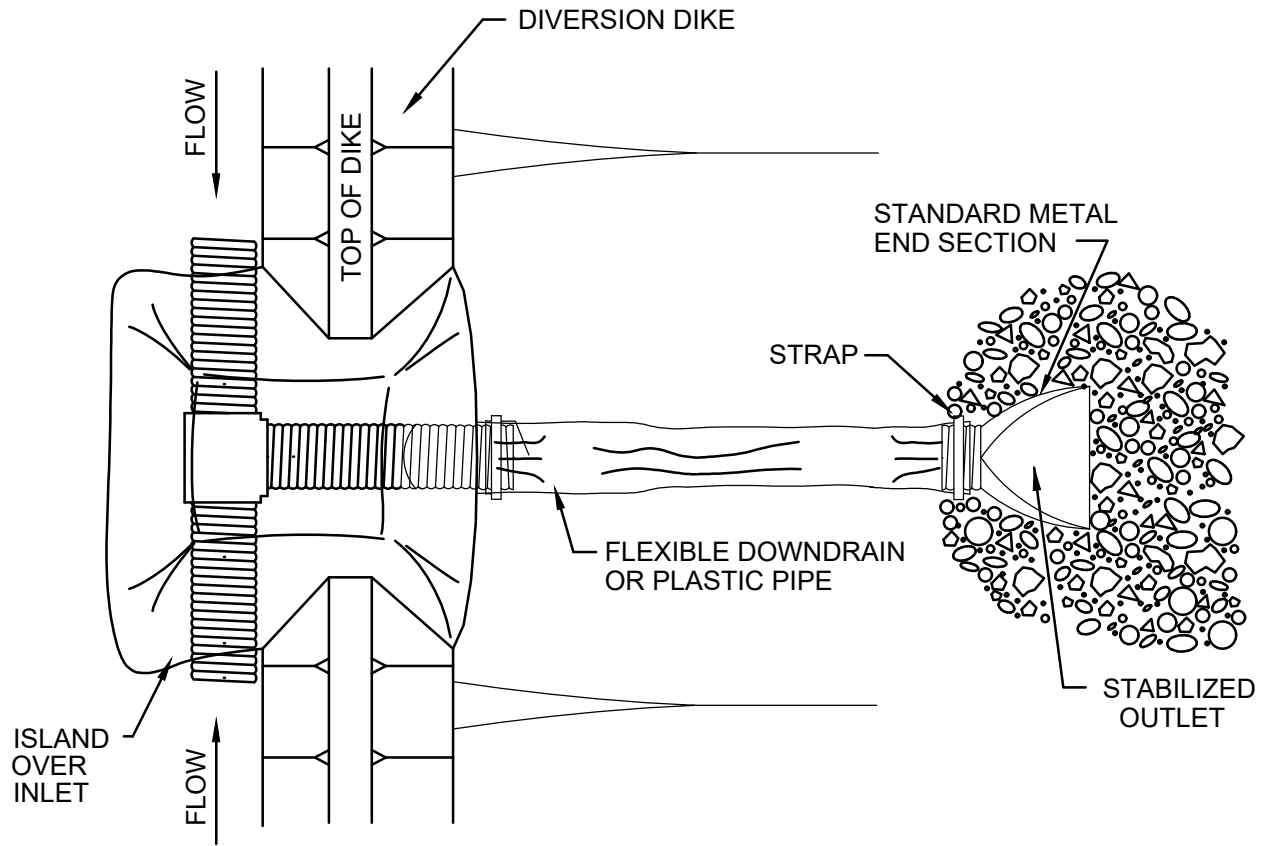
### ROCK CHECK DAM

DRAWING NOT TO SCALE

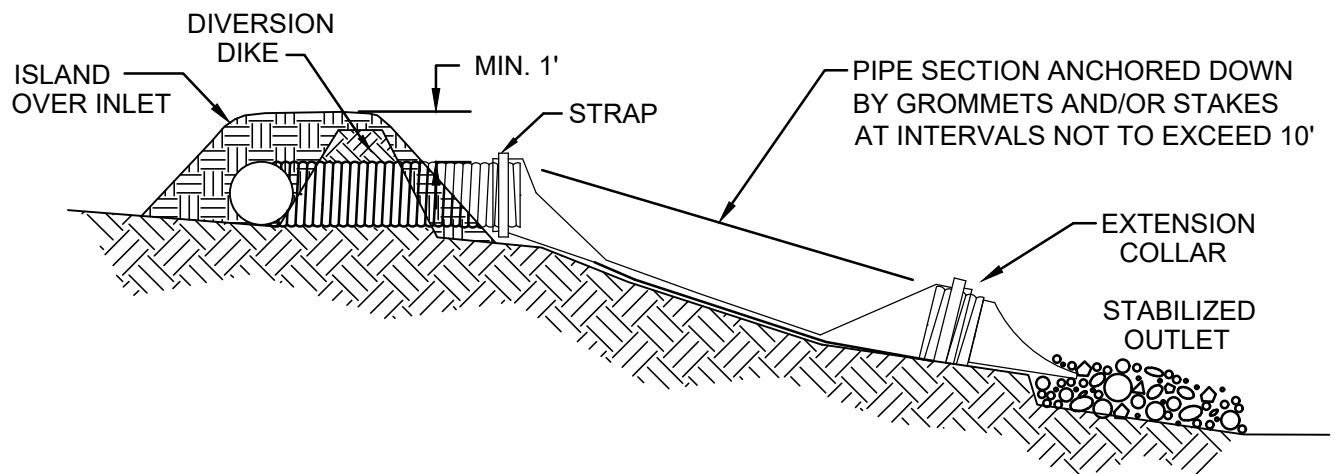
EROSION CONTROL MANUAL

CHECK DAMS

Detail Drawing 3.22-A



PLAN VIEW



SECTION

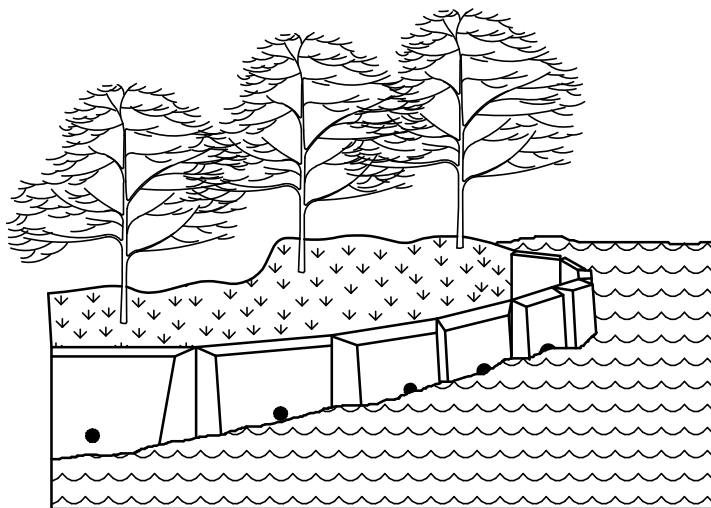
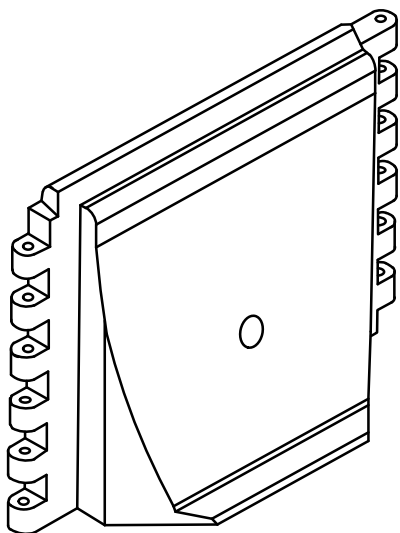
DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

PIPE SLOPE DRAIN

Detail Drawing 3.23-A





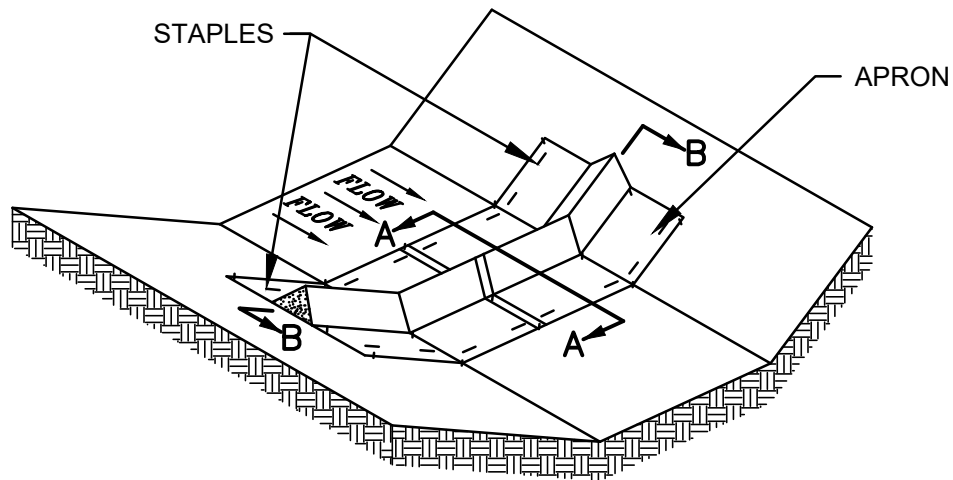
## EROSION BARRIER

DRAWING NOT TO SCALE

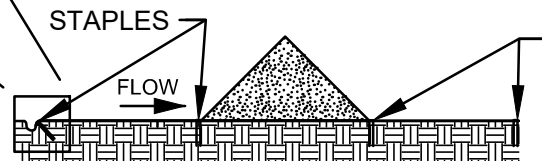
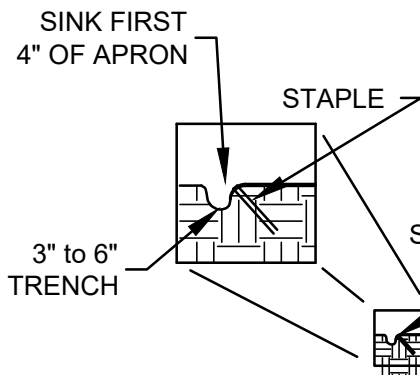
EROSION CONTROL MANUAL

STORMWATER RUNOFF  
BARRIERS #1

Detail Drawing 3.24-A

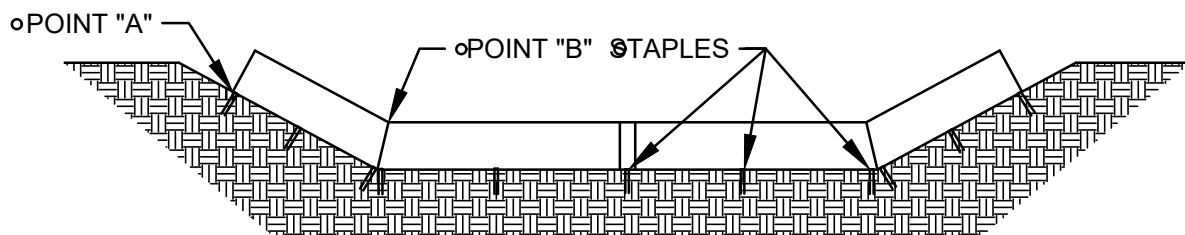


SILT DIKE UNIT CUT SECTION



STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7' UNITS AS SHOWN ON THE DIAGRAMS.

DETAIL A-A



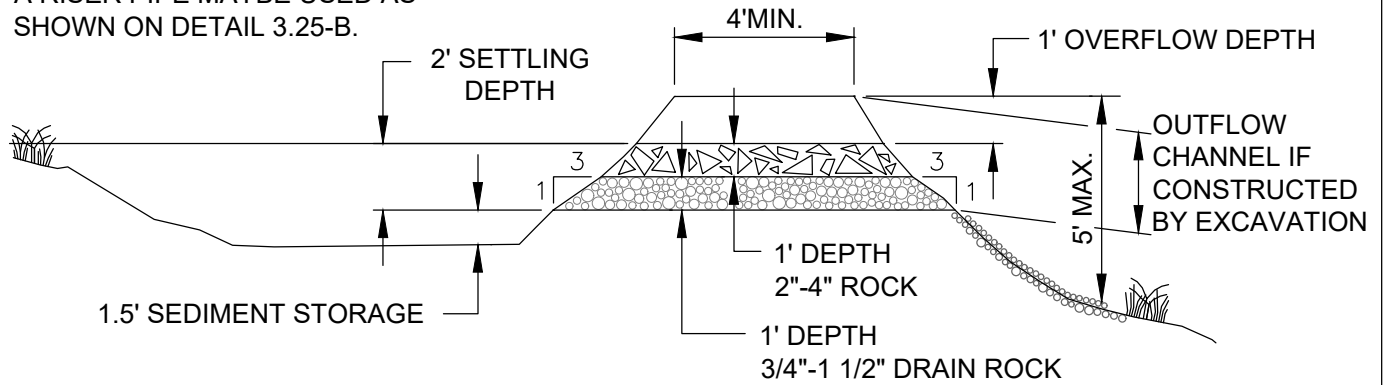
DIKE SECTION DETAIL B-B

TRIANGULAR SILT DIKE INSTALLATION FOR  
ROADWAY DITCH OR DRAINAGE DITCH

EROSION CONTROL MANUAL

STORMWATER RUNOFF  
BARRIERS #2  
Detail Drawing 3.24-B

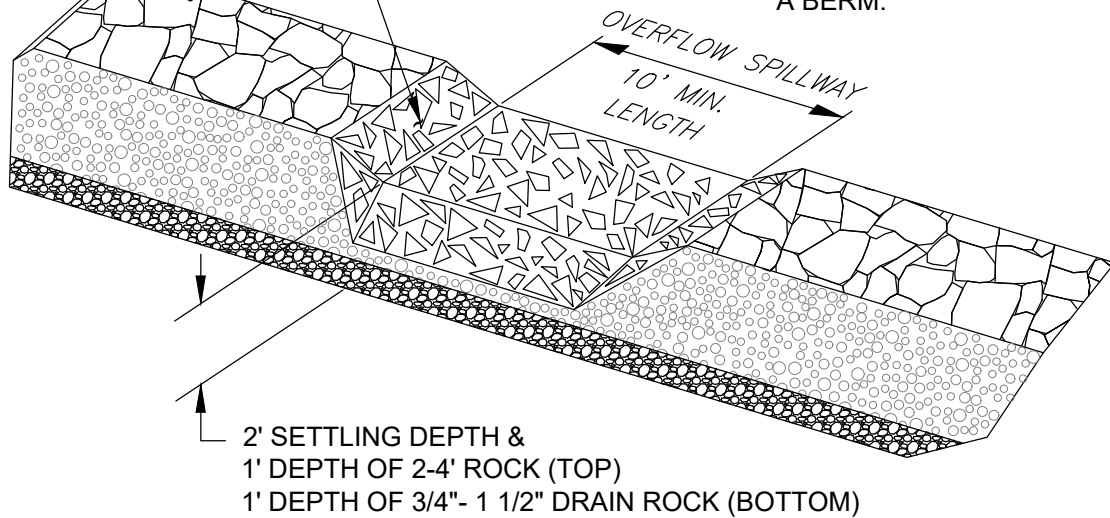
NOTE:  
A RISER PIPE MAYBE USED AS  
SHOWN ON DETAIL 3.25-B.



### CROSS SECTION

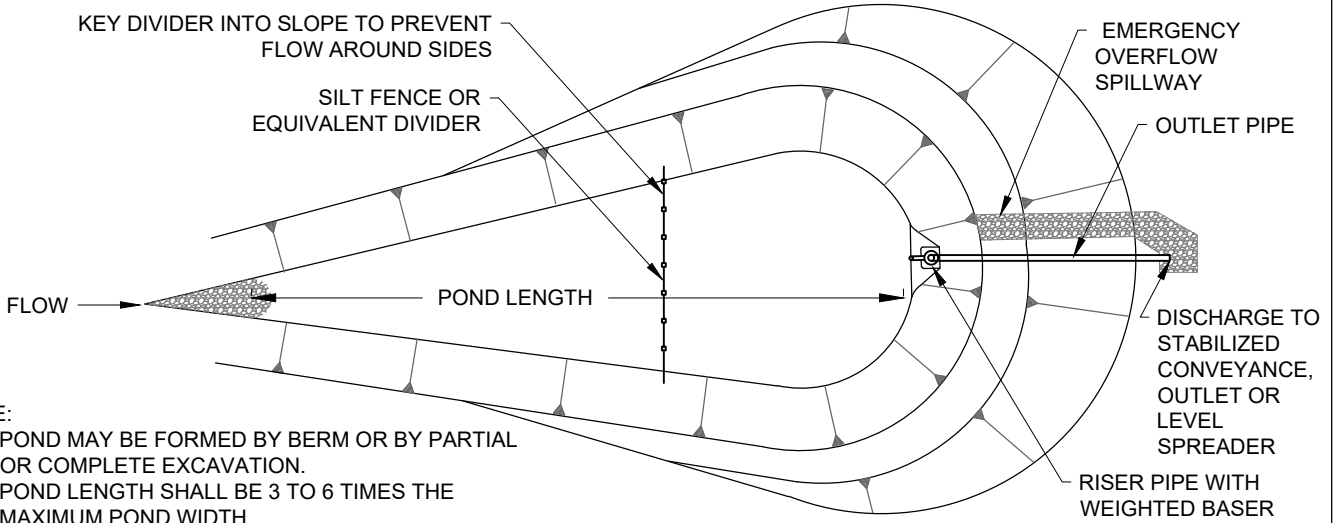
ARMORING MATERIAL THAT  
WILL NOT MIGRATE AWAY

NOTE: MAY BE CONSTRUCTED  
BY EXCAVATION OR BY BUILDING  
A BERM.



### SEDIMENT TRAP OUTLET

DRAWING NOT TO SCALE

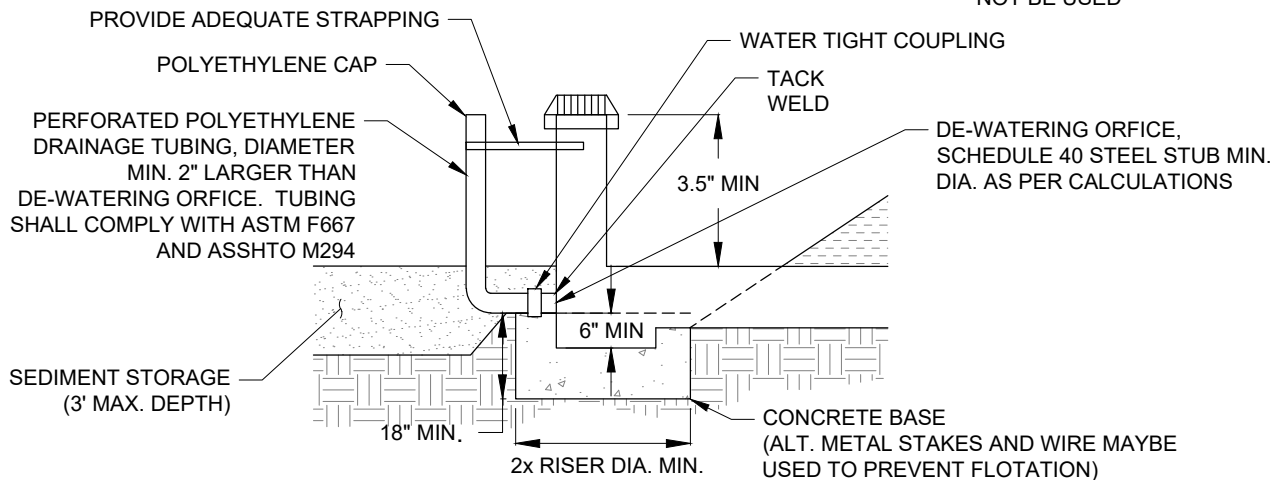
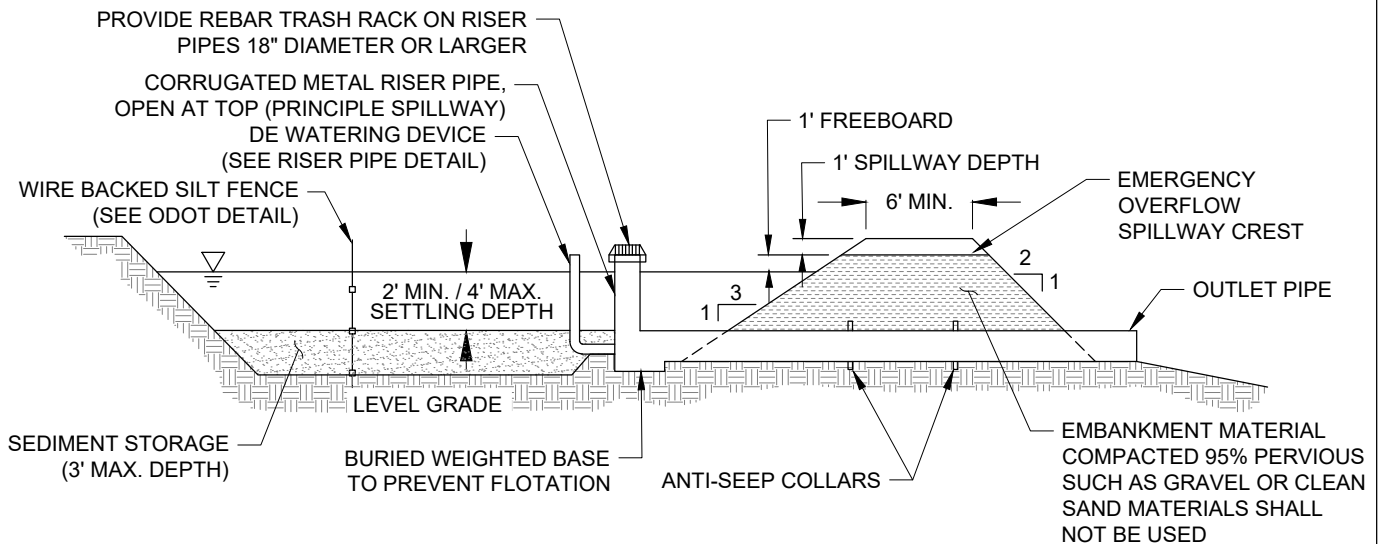


NOTE:

1. POND MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION.
2. POND LENGTH SHALL BE 3 TO 6 TIMES THE MAXIMUM POND WIDTH.
3. AS AN ALTERNATIVE TO A SKIMMER, THE RISER MAY BE CONSTRUCTED WITH A PERFORATED RISER PIPE COVERED WITH FILTER FABRIC AND A GRAVEL JACKET FOR FILTRATION.

## SEDIMENT POND DETAIL

DRAWING NOT TO SCALE



## SEDIMENT POND RISER DETAIL

DRAWING NOT TO SCALE

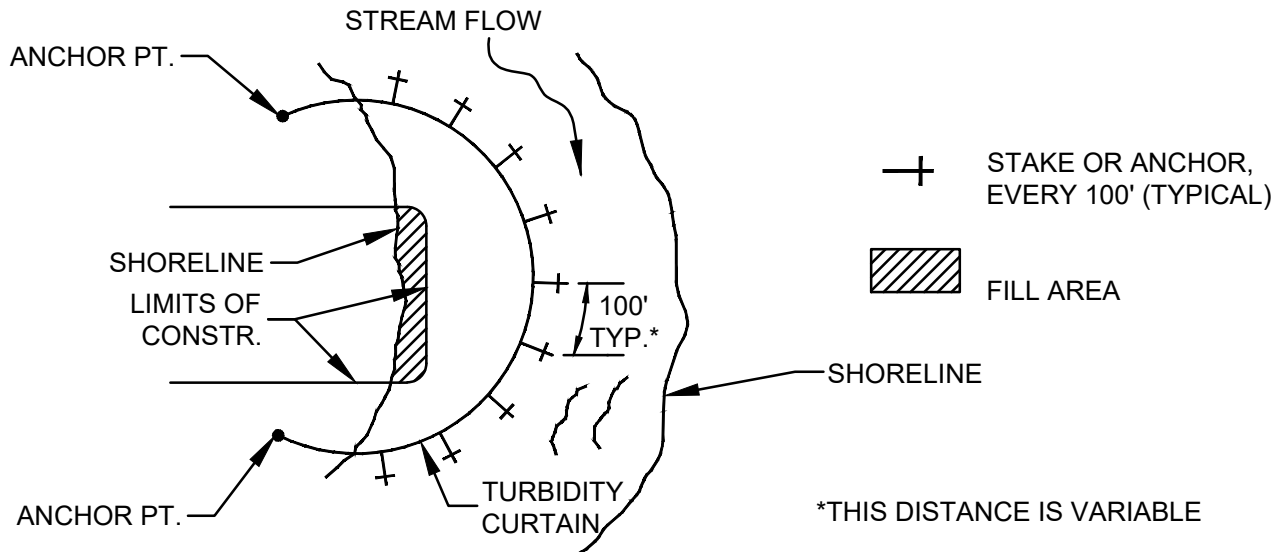
EROSION CONTROL MANUAL

SEDIMENT POND

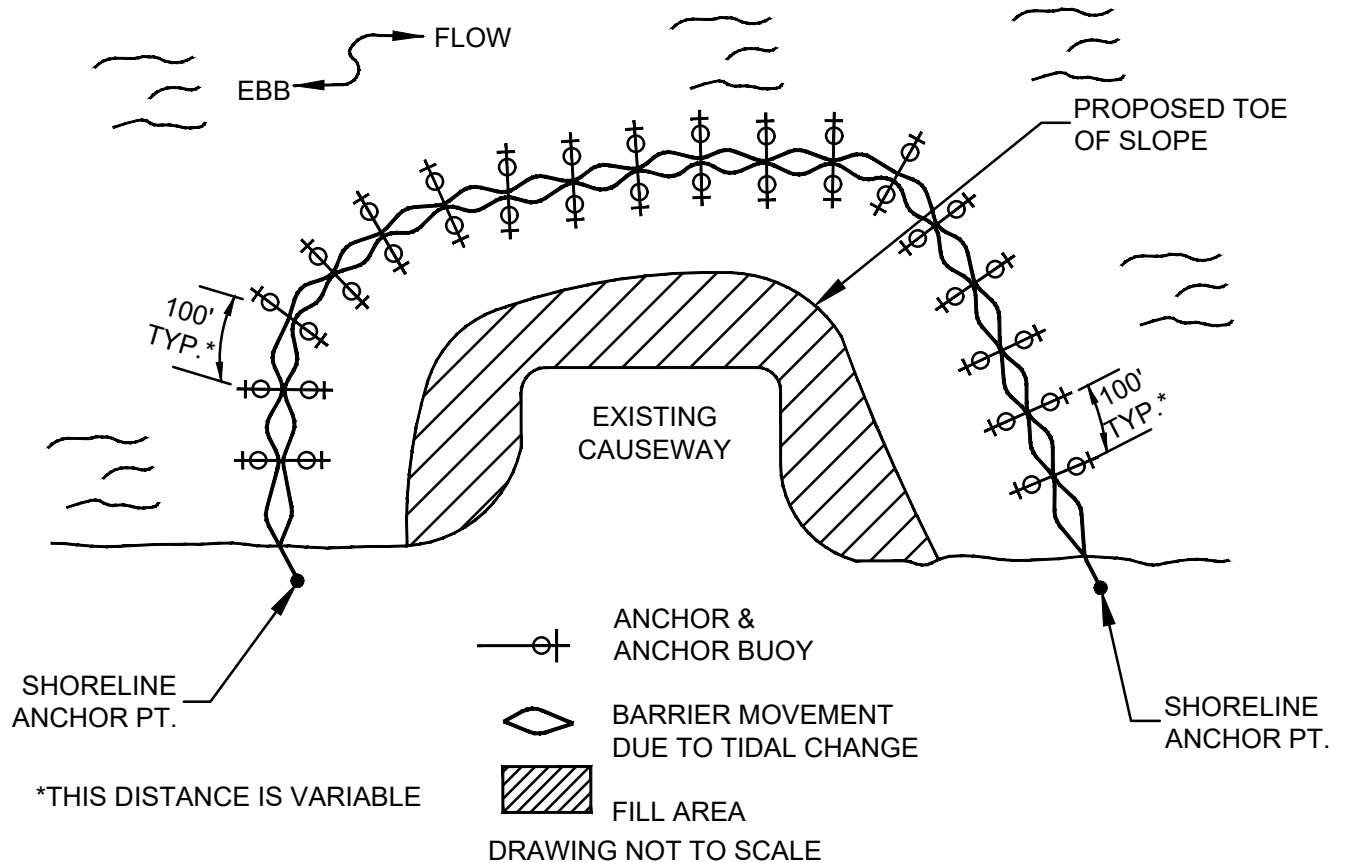
Detail Drawing 3.25-B

# TURBIDITY CURTAIN

## TYPICAL LAYOUTS: STREAMS, PONDS & LAKES (PROTECTED & NON-TIDAL)



## TIDAL WATERS AND/OR HEAVY WIND & WAVE ACTION

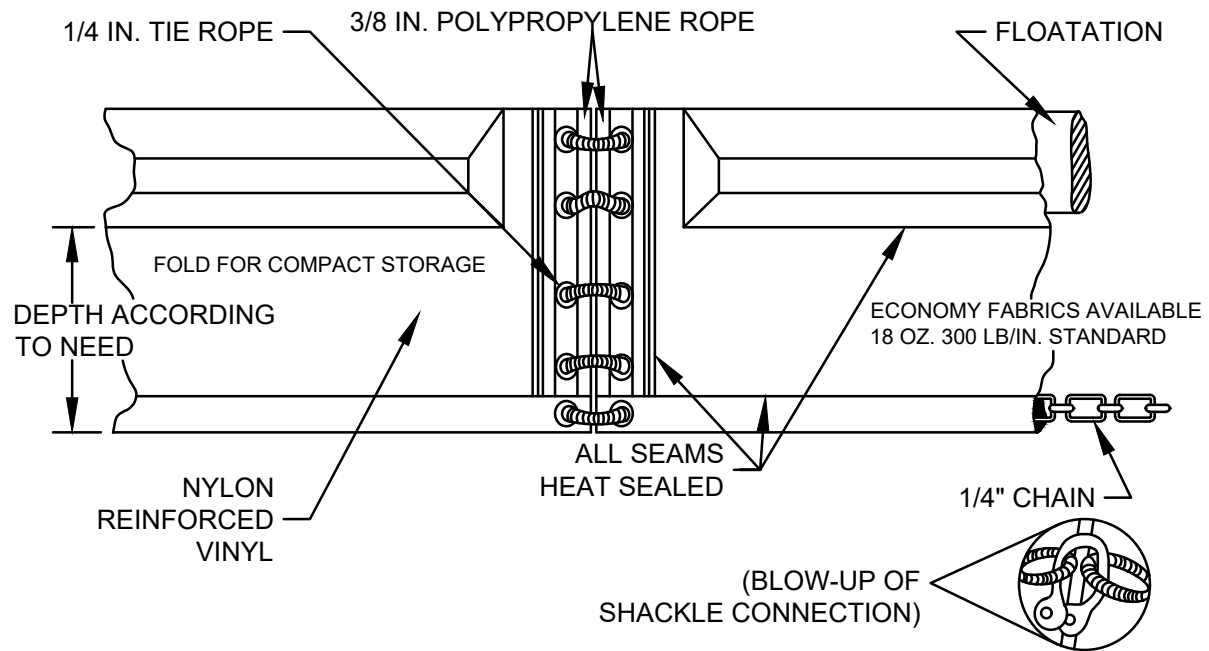


EROSION CONTROL MANUAL

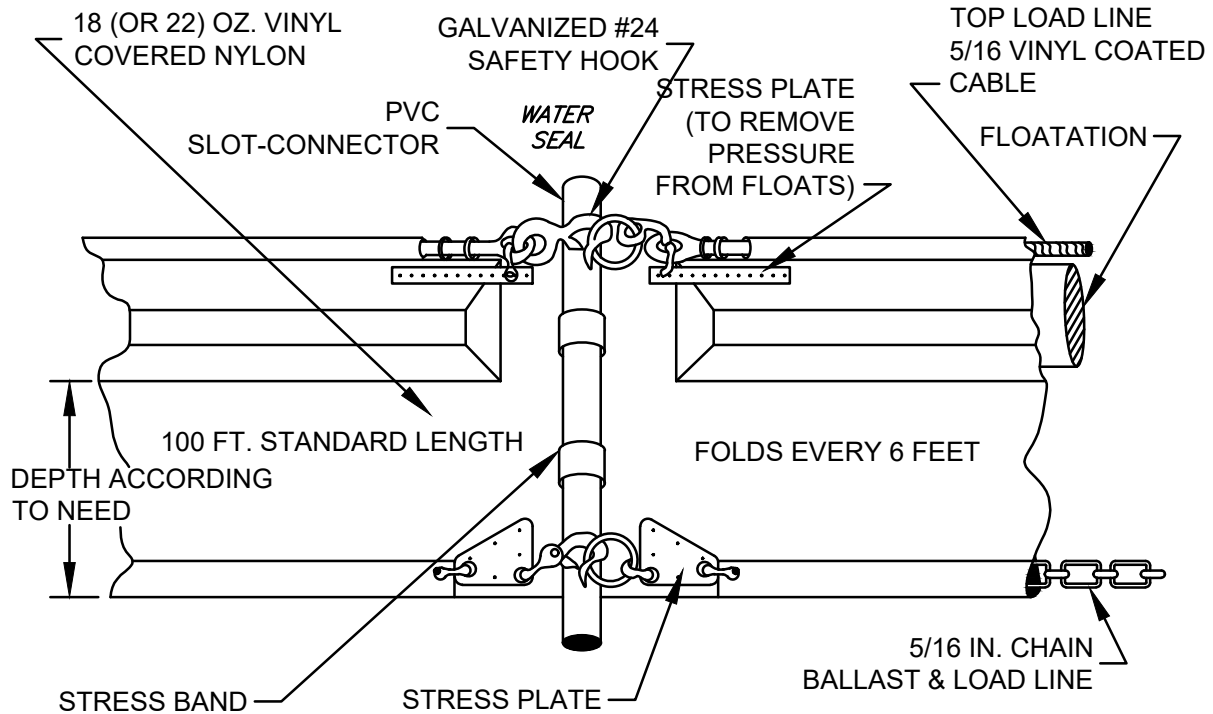
TURBIDITY CURTAIN  
PLAN VIEW

Detail Drawing 3.29-A

# TURBIDITY CURTAIN



TYPE I



TYPE II

DRAWING NOT TO SCALE

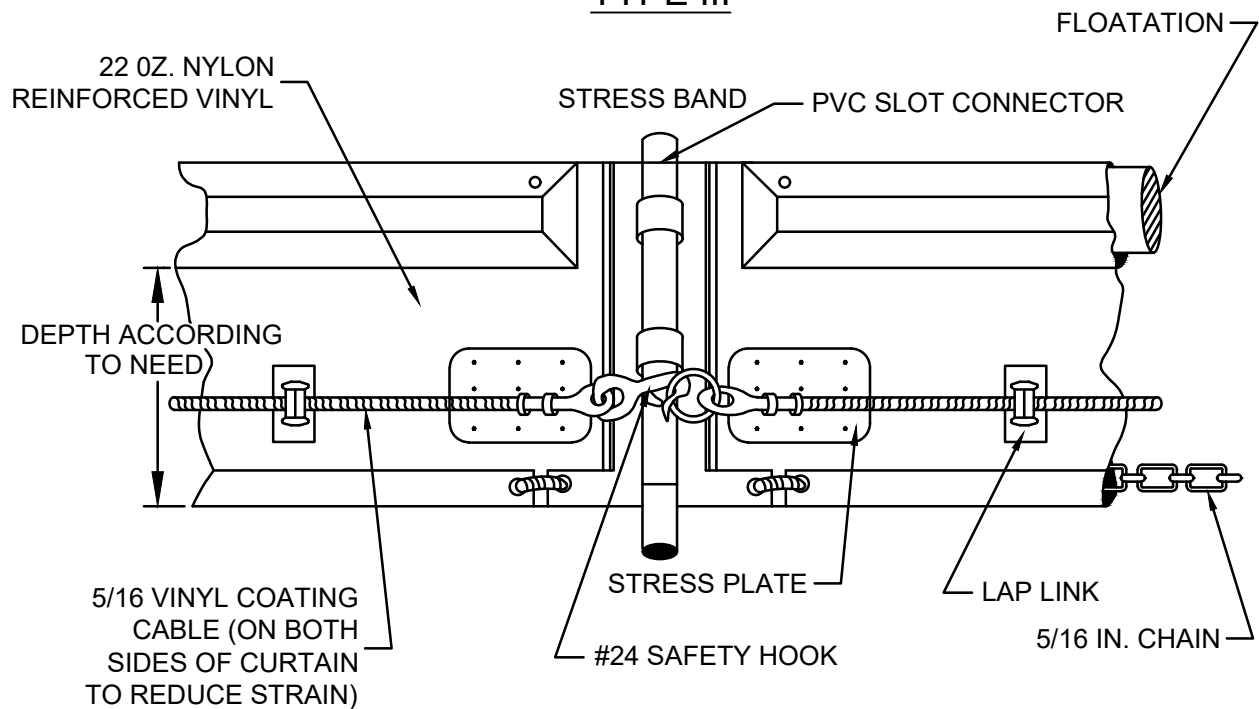
EROSION CONTROL MANUAL

TURBIDITY CURTAIN  
CONNECTIONS

Detail Drawing 3.29-B

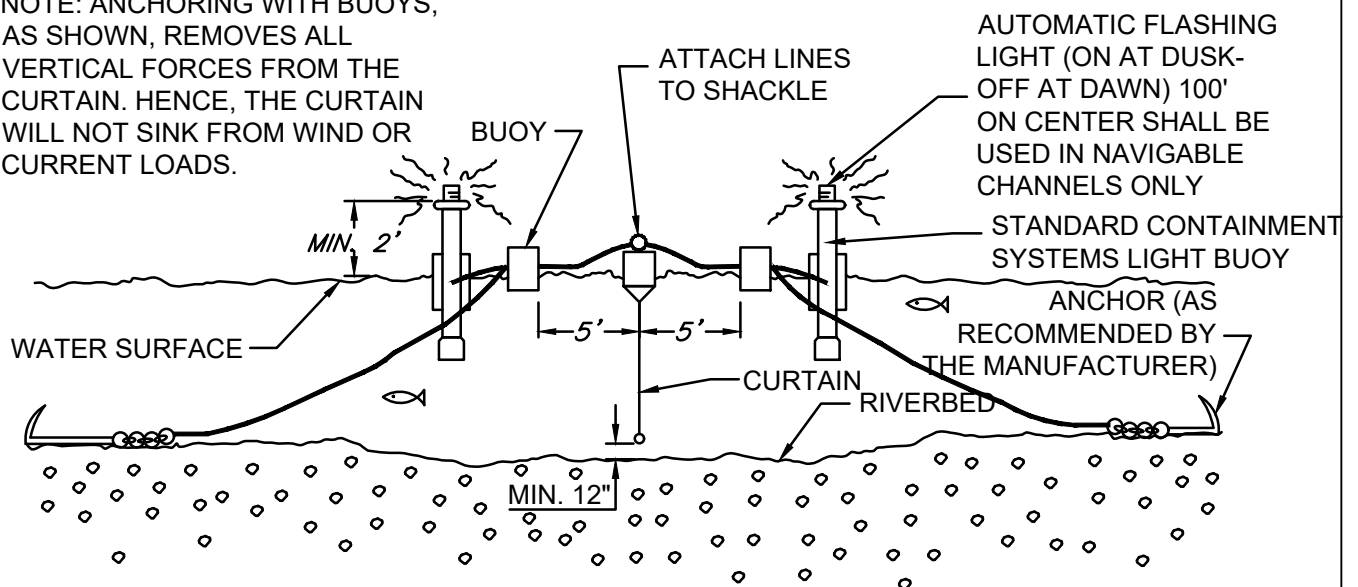
# TURBIDITY CURTAIN

## TYPE III



## ORIENTATION WHEN INSTALLED (TIDAL SITUATION -TYPE III )

NOTE: ANCHORING WITH BUOYS, AS SHOWN, REMOVES ALL VERTICAL FORCES FROM THE CURTAIN. HENCE, THE CURTAIN WILL NOT SINK FROM WIND OR CURRENT LOADS.



DRAWING NOT TO SCALE

EROSION CONTROL MANUAL

TURBIDITY CURTAIN  
CONNECTIONS & ANCHORING

Detail Drawing 3.29-C