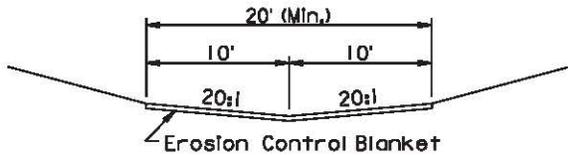
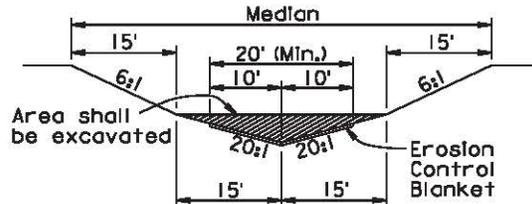


## **APPENDIX C**

### **Standard Plates for Erosion Control**

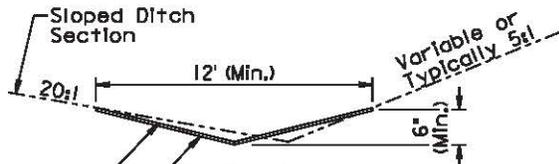


**STANDARD DITCH SECTION**



The median shall be shaped to the limits shown in this detail where the erosion control blanket will be placed.

**MEDIAN SECTION**



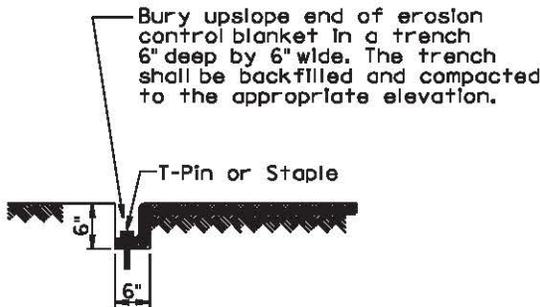
This ditch section shall be constructed when installing erosion control blanket.

**SLOPED DITCH SECTION**

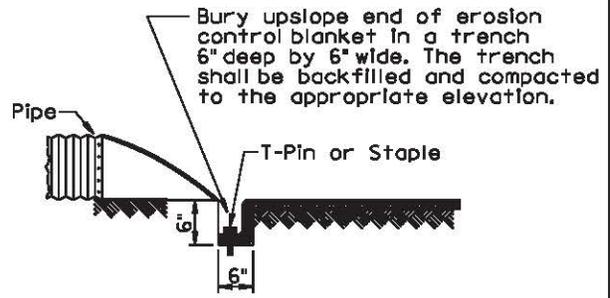


- \* Use a 4" (Min.) overlap wherever two widths of erosion control blanket are applied side by side.
- \* Use a 6" (Min.) overlap wherever one roll of erosion control blanket ends and another begins.

**OVERLAP DETAIL**



**TRENCH DETAIL**



**PIPE END DETAIL**

**GENERAL NOTES:**

Prior to placement of the erosion control blanket, the areas shall be properly prepared, shaped, seeded, and fertilized.

Erosion control blanket shall be unrolled in the direction of the flow of water when placed in ditches and on slopes. The upslope end of the erosion control blanket shall be buried in a trench 6" wide by 6" deep. There shall be at least a 6" overlap wherever one roll of erosion control blanket ends and another begins, with the upslope erosion control blanket placed on top of the downslope erosion control blanket.

The erosion control blanket shall be pinned to the ground according to the manufacturer's Installation recommendations.

After the placement of the erosion control blanket, the Contractor shall fine grade along all edges of the blanket to maintain a uniform slope adjacent to the blanket and level any low spots which might prevent uniform and unrestricted flow of side drainage directly onto the erosion control blanket.

All ditch sections shall be shaped when installing the erosion control blanket. All costs for shaping the ditches shall be incidental to the contract unit price per foot for "Shaping for Erosion Control Blanket".

December 23, 2004

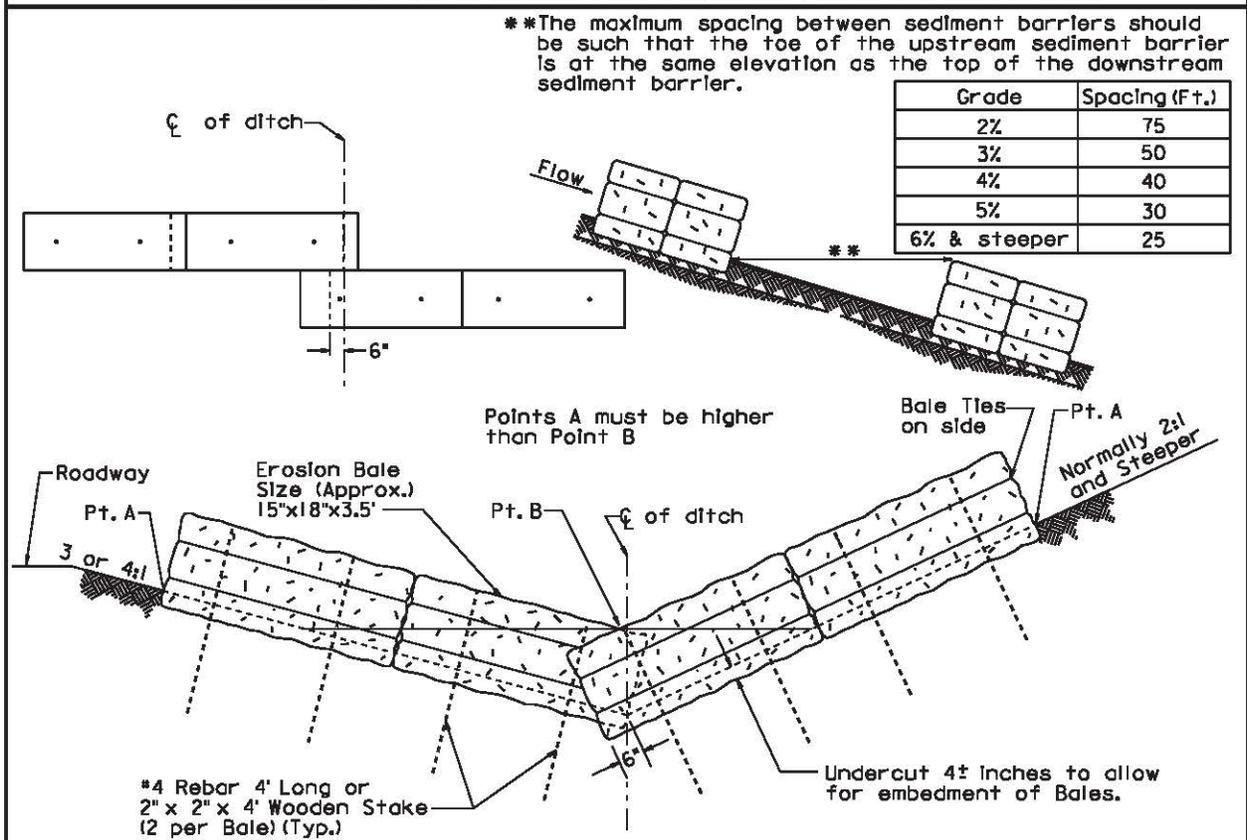
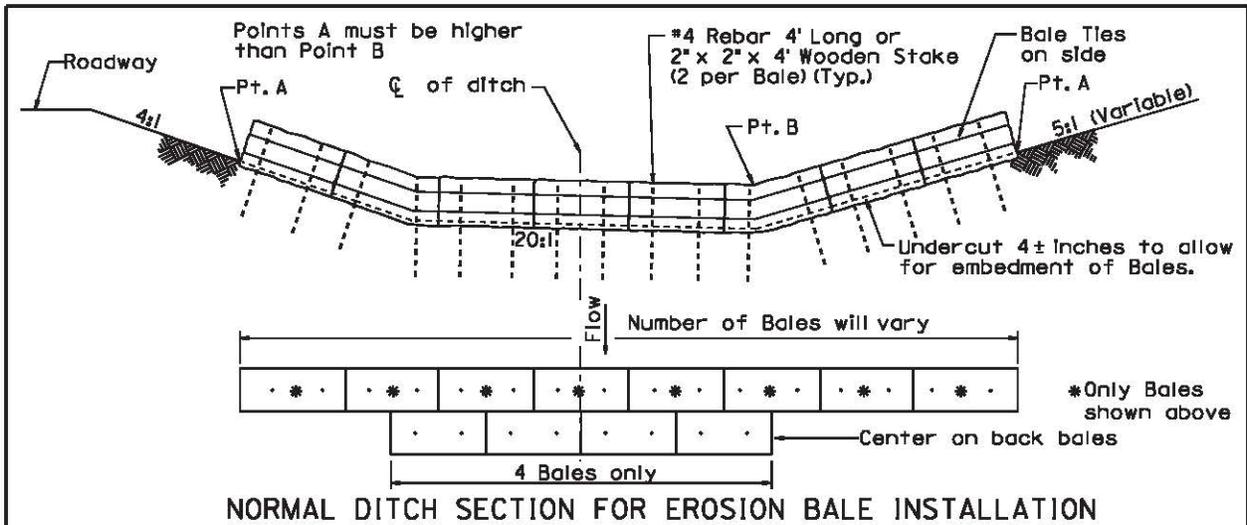
Published Date: 2nd Qtr. 2015

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**EROSION CONTROL BLANKET**

PLATE NUMBER  
**734.01**

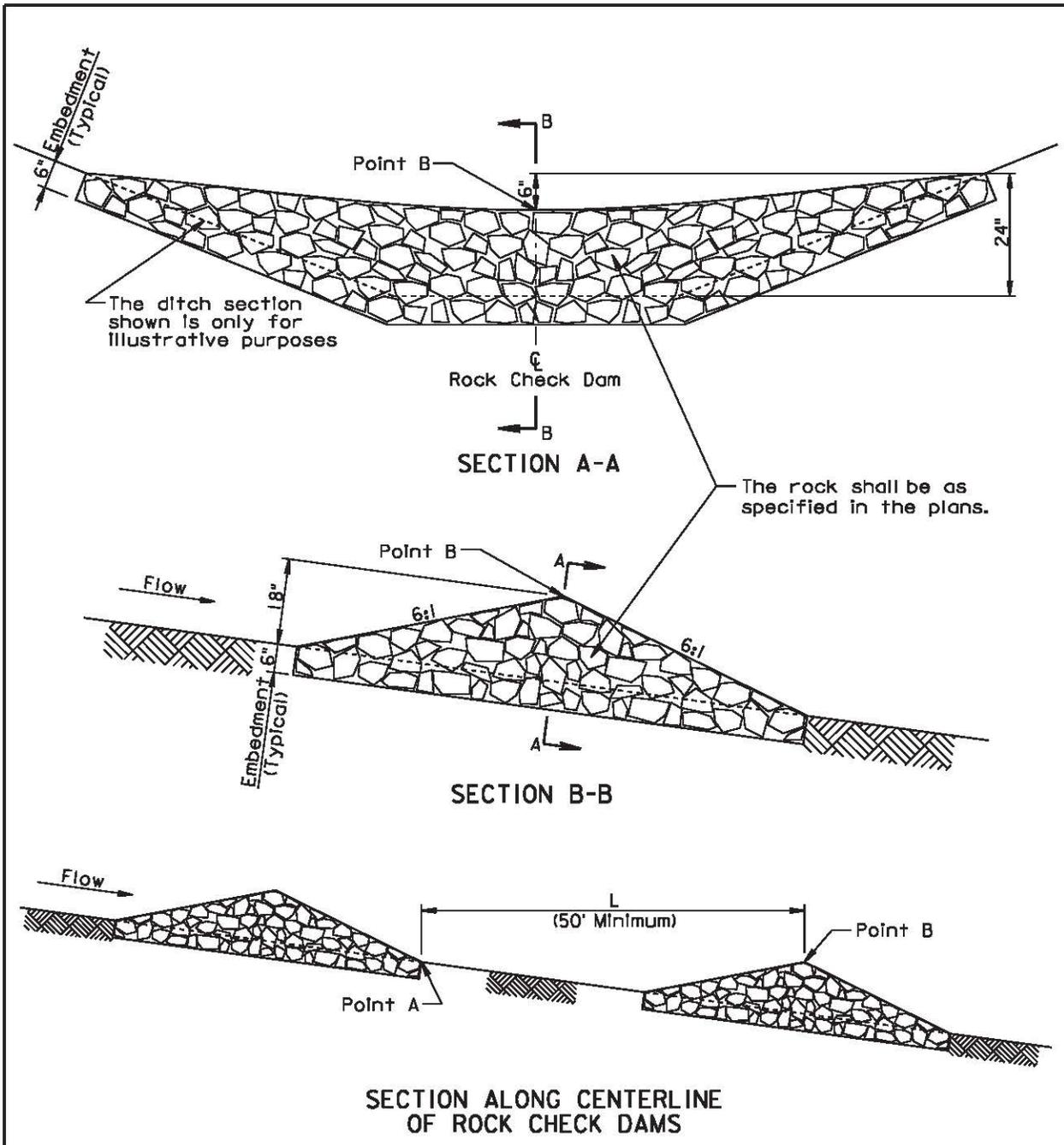
Sheet 1 of 1



**GENERAL NOTES:**

The erosion bale sediment barrier must be entrenched and backfilled. A trench should be excavated the width of a bale and the length of the proposed sediment barrier to a minimum depth of 4 inches. After the bales are staked with rebar or wood stakes, the excavated soil must be backfilled against the sediment barrier. The sediment barrier must be extended to such a length that the bottoms of the end bales are higher in elevation than the top of the lowest middle bale.

March 28, 2001



**GENERAL NOTES:**

The elevation of Point A and Point B shall be the same. The distance L is the distance required such that Point A and Point B are at the same elevation.

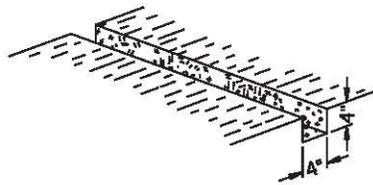
All costs for constructing the Rock Check Dam including labor, equipment, excavation, and rock shall be incidental to the contract unit price per cubic yard for "Rock Check Dam".

March 28, 2001

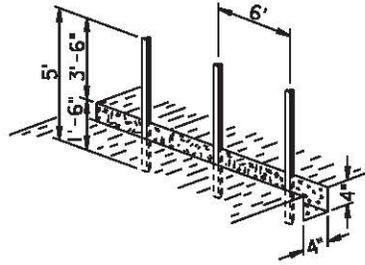
<b>S D D O T</b>	<b>ROCK CHECK DAM</b>	PLATE NUMBER <b>734.03</b>
		Sheet 1 of 1

Published Date: 4th Qtr. 2014

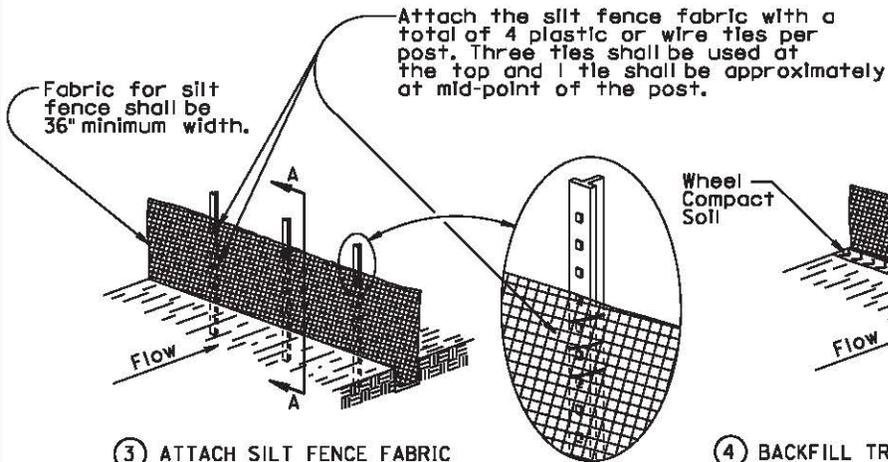
# MANUAL HIGH FLOW SILT FENCE INSTALLATION



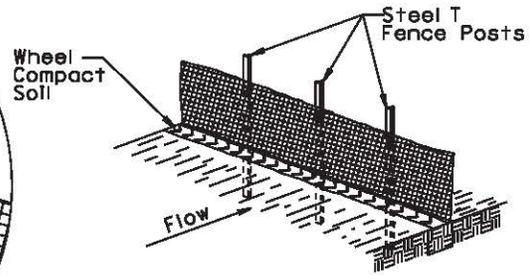
① EXCAVATE TRENCH



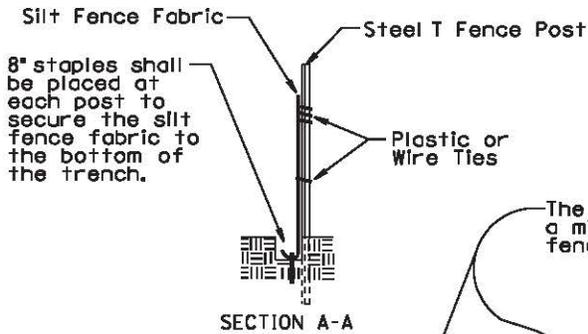
② DRIVE STEEL T FENCE POSTS



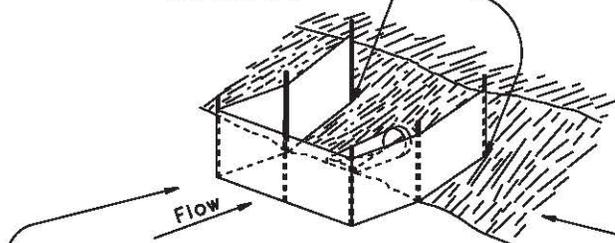
③ ATTACH SILT FENCE FABRIC



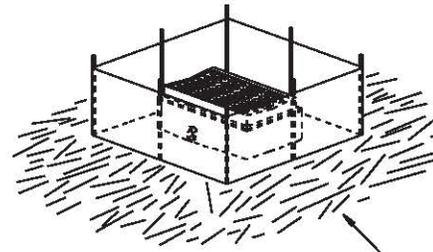
④ BACKFILL TRENCH AND WHEEL COMPACT SOIL



The elevation at these locations shall be, at a minimum, higher than the top of the silt fence fabric at its lowest elevation.



The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.



Post spacing shall be 3' for these types of applications of silt fence. All other components of the silt fence shall be the same as shown above.

December 23, 2003

Published Date: 2nd Qtr. 2015

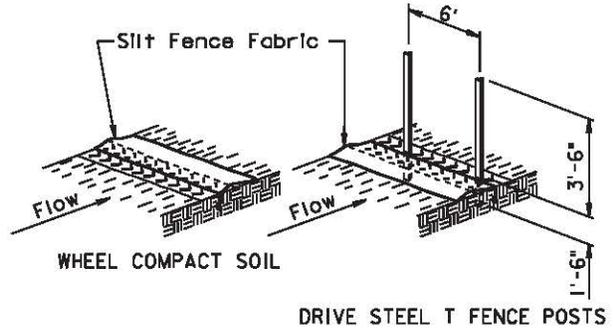
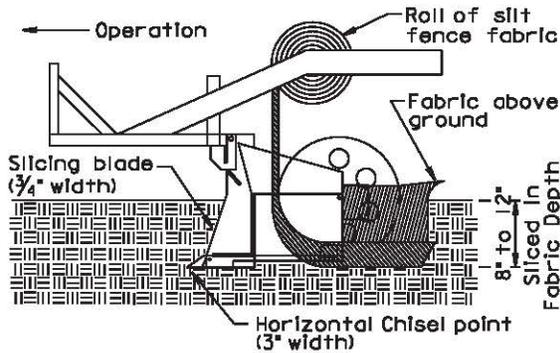
SDOT

HIGH FLOW SILT FENCE

PLATE NUMBER  
734.05

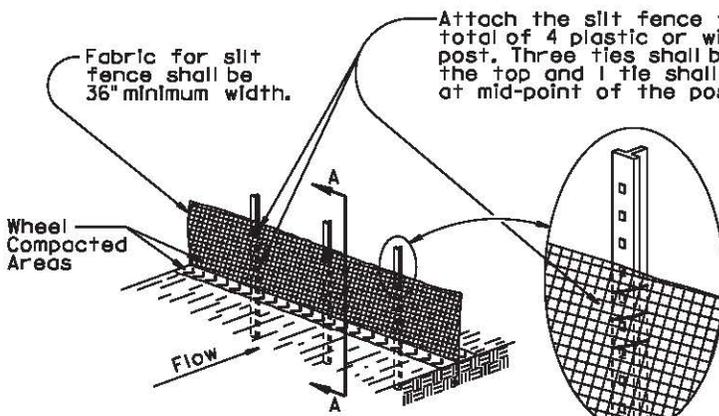
Sheet 1 of 2

# MACHINE SLICED HIGH FLOW SILT FENCE INSTALLATION

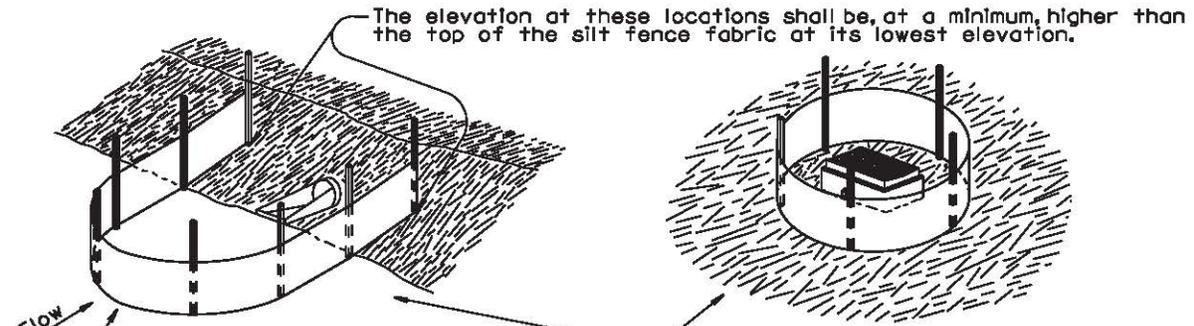
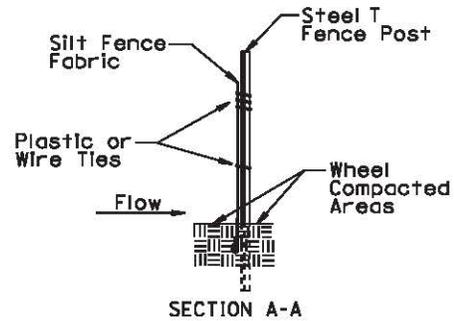


① INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.

② WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.



③ ATTACH SILT FENCE FABRIC



The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

The radius of the silt fence shall be the minimum capable by the slicing machine. The post spacing shall be 3' for these types of applications of silt fence. All the other components of the silt fence shall be the same as shown above.

**GENERAL NOTE:**

If a trench can not be dug or the silt fence fabric can not be sliced in due to the type of earthen material (such as rock), then a row of 30 to 40 pound sandbags butted end to end shall be provided on top of the extra length of silt fence fabric to prevent underflow.

December 23, 2003

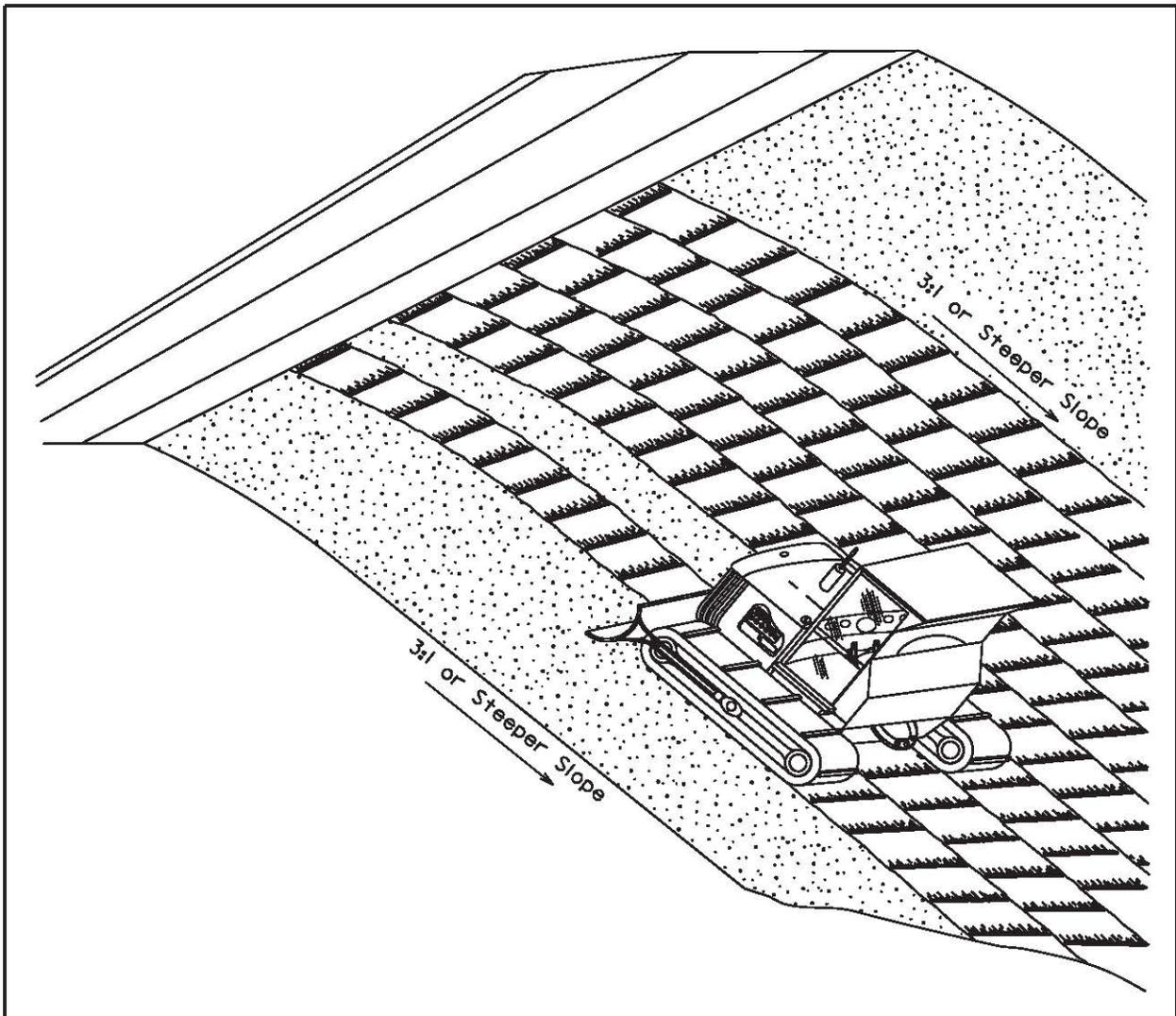
Published Date: 2nd Qtr. 2015

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**HIGH FLOW SILT FENCE**

**PLATE NUMBER  
734.05**

Sheet 2 of 2



**GENERAL NOTES:**

Where practical, surface roughening shall be done on slopes 3:1 and steeper and on slopes deemed necessary by the Engineer.

The equipment used for surface roughening shall be equipped with tracks that are capable of creating ridges in the soil that are perpendicular to the slope. The final condition of the surface roughening shall be approved by the Engineer.

Measurement for surface roughening shall be to the nearest tenth of an acre.

All costs associated with surface roughening including labor, equipment, and materials shall be incidental to the contract unit price per acre for "Surface Roughening".

June 26, 2009

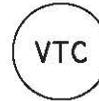
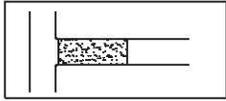
*Published Date: 4th Qtr. 2014*

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**SURFACE ROUGHENING**

**PLATE NUMBER  
734.25**

*Sheet 1 of 1*



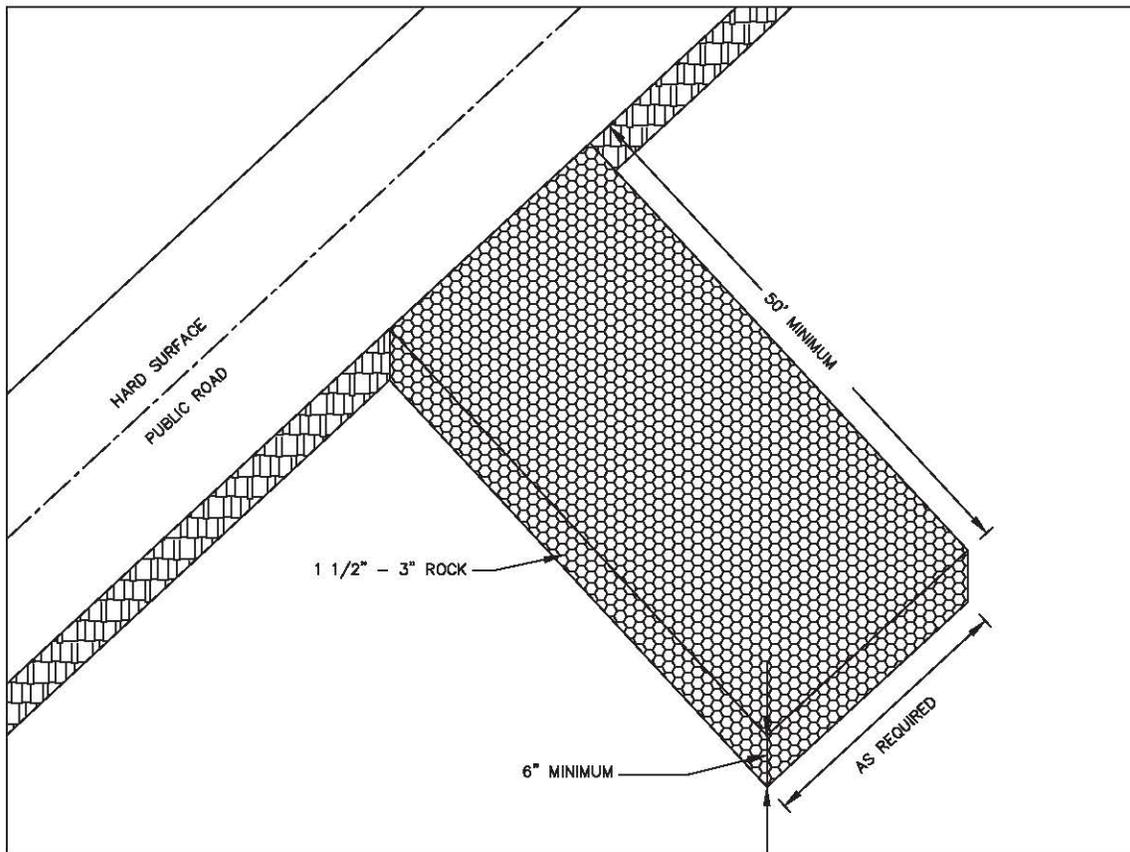
## VEHICLE TRACKING CONTROL

### DEFINITION:

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

### PURPOSES:

TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.



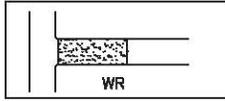
REVISED: MAY 2003

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
TEMPORARY VEHICLE  
TRACKING CONTROL

PLATE  
NUMBER  
**734.02**



## VEHICLE TRACKING CONTROL

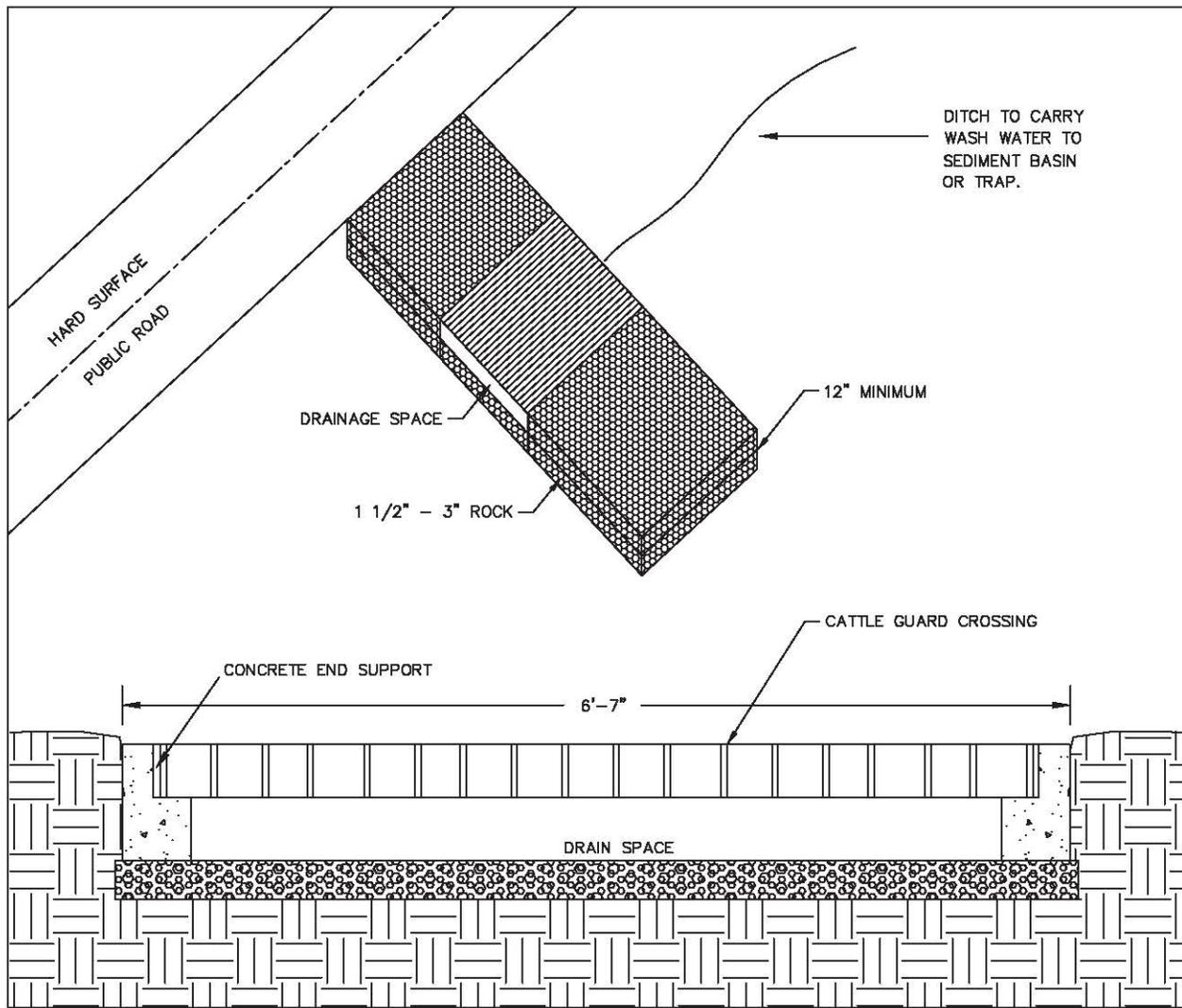
### DEFINITION:

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE, EQUIPPED WITH A WASH RACK.

### PURPOSES:

TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.

NOTE: ONLY APPLICABLE FOR SITES GREATER THAN 2 ACRES IN SIZE.



DETAIL OF WASH RACK

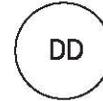
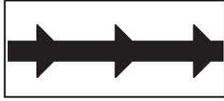
REVISED: JUNE 2000

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**TEMPORARY VEHICLE TRACKING  
CONTROL WITH WASH RACK**

PLATE  
NUMBER  
**734.03**



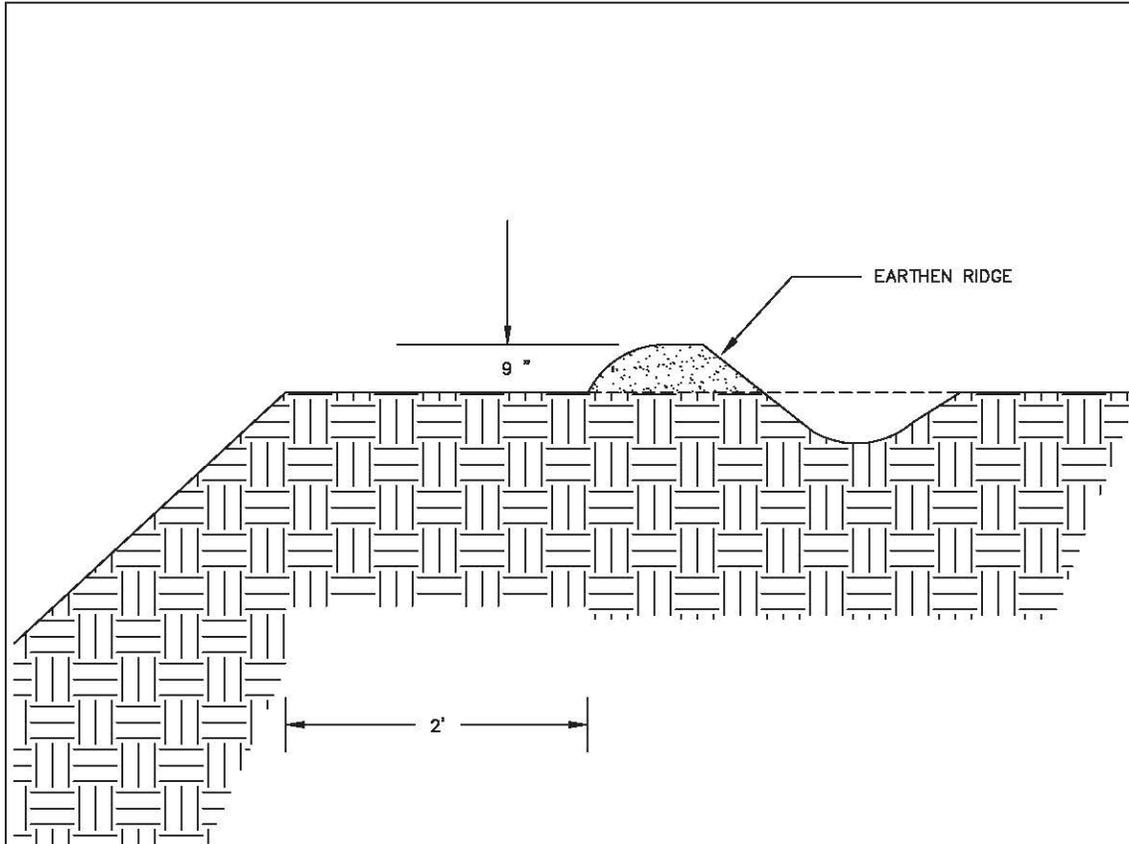
## TEMPORARY DIVERSION DIKE

### DEFINITION:

A TEMPORARY RIDGE OF COMPACTED SOIL LOCATED AT THE TOP, MID SLOPE, OR BASE OF A DISTURBED AREA.

### PURPOSES:

1. TO DIVERT STORM RUNOFF FROM HIGHER DRAINAGE AREAS AWAY FROM UNPROTECTED SLOPES TO A PERMANENT CHANNEL OR TEMPORARY CHANNEL DIVERSION.
2. TO DIVERT SEDIMENT-LADEN RUNOFF FROM THE MID SLOPE OF A DISTURBED AREA TO A TEMPORARY SLOPE DRAIN.
3. TO DIVERT SEDIMENT-LADEN RUNOFF FROM THE BASE OF A DISTURBED AREA TO A SEDIMENT TRAPPING FACILITY.



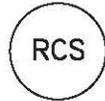
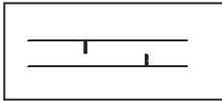
REVISED: JUNE 2000

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**TEMPORARY DIVERSION DIKE**

PLATE  
NUMBER  
**734.04**



## ROUGH-CUT STREET CONTROL

DEFINITION:

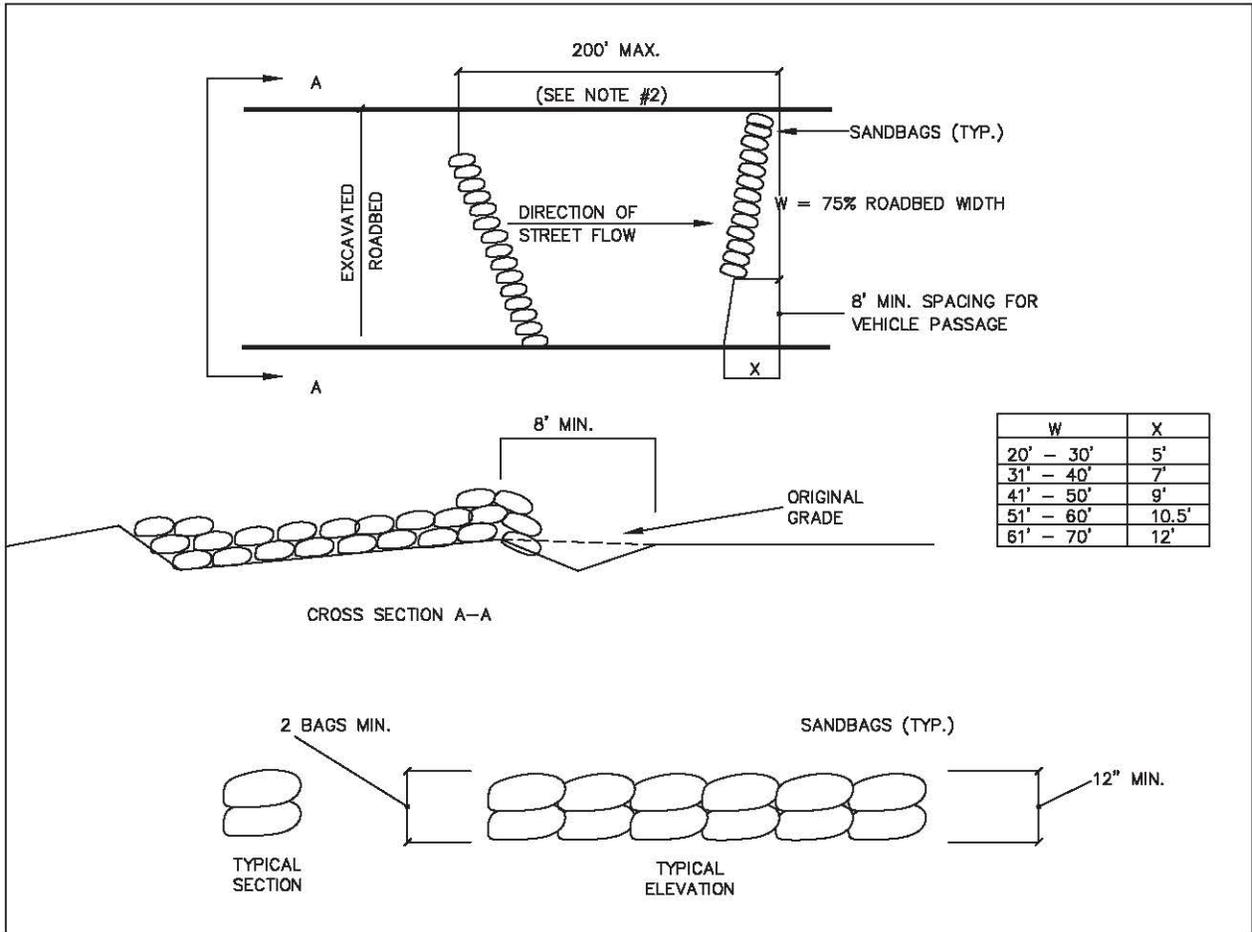
A TEMPORARY SEDIMENT BARRIER PLACED ON ALTERNATE SIDES OF A ROUGH CUT STREET.

PURPOSES:

TO DIVERT SEDIMENT-LADEN RUNOFF FROM ROUGH-CUT STREETS AND SLOW THE VELOCITY OF STORM RUNOFF.

NOTE: 1. ALTERNATE MATERIALS SUCH AS STRAW BALES OR SILT FENCES MAY BE USED WHERE LARGE FLOWS ARE NOT EXPECTED.

2. REQUIREMENTS FOR AND SPACING OF VELOCITY REDUCERS FOR STREETS WITH GRADES OF LESS THAN 4% SHALL BE AS SHOWN ON THE EROSION CONTROL PLAN.



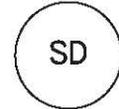
REVISED: JUNE 2000

SPECIFICATION  
REFERENCE  
NO.  
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CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**ROUGH-CUT STREET CONTROL**

PLATE  
NUMBER  
**734.05**



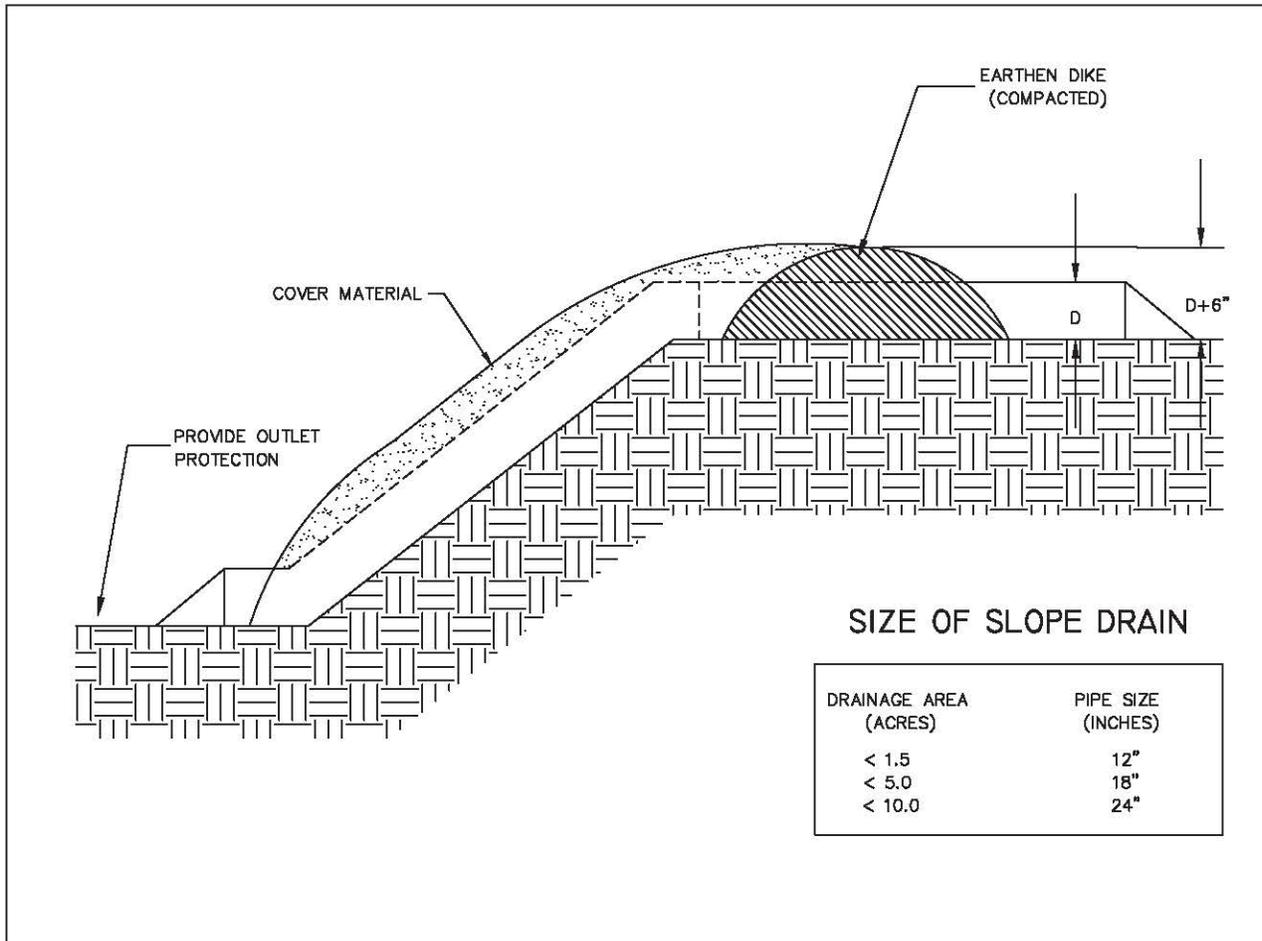
## TEMPORARY SLOPE DRAIN

### DEFINITION:

A FLEXIBLE TUBE OR CONDUIT EXTENDING FROM THE TOP TO THE BOTTOM OF A CUT OR FILL SLOPE.

### PURPOSES:

1. TO TEMPORARILY CONDUCT CONCENTRATED STORM WATER RUNOFF SAFELY DOWN THE FACE OF A CUT OR FILL SLOPE WITHOUT CAUSING EROSION PROBLEMS ON OR BELOW THE SLOPE.



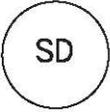
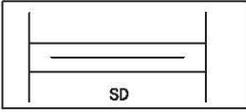
REVISED: OCTOBER 2005

SPECIFICATION  
REFERENCE  
NO.  
**734**

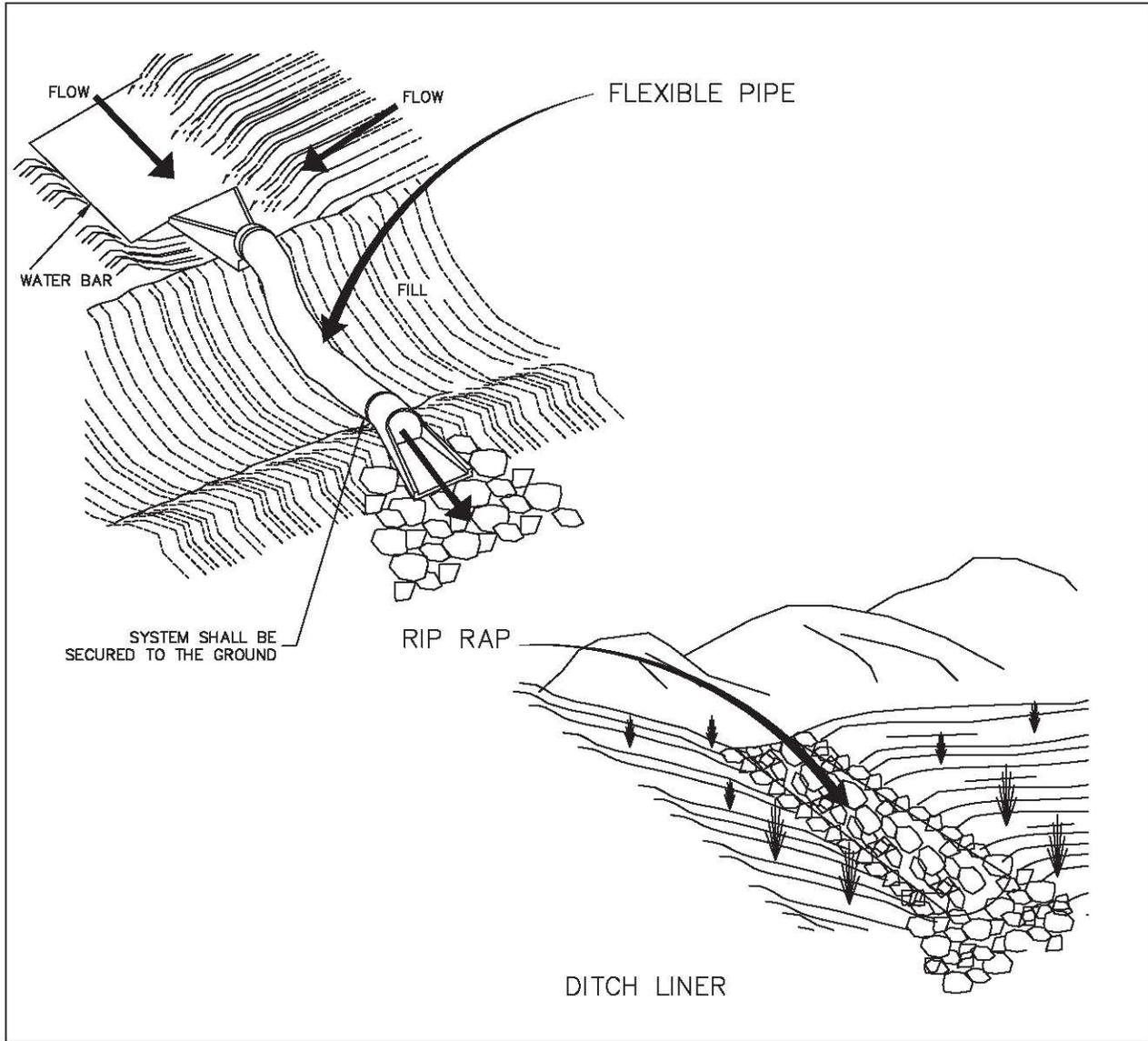


CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**TEMPORARY SLOPE DRAIN**

PLATE  
NUMBER  
**734.06**



# TEMPORARY SLOPE DRAIN



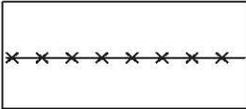
REVISED: OCTOBER 2005

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**TEMPORARY SLOPE DRAIN**

PLATE  
NUMBER  
**734.07**



# SILT FENCE

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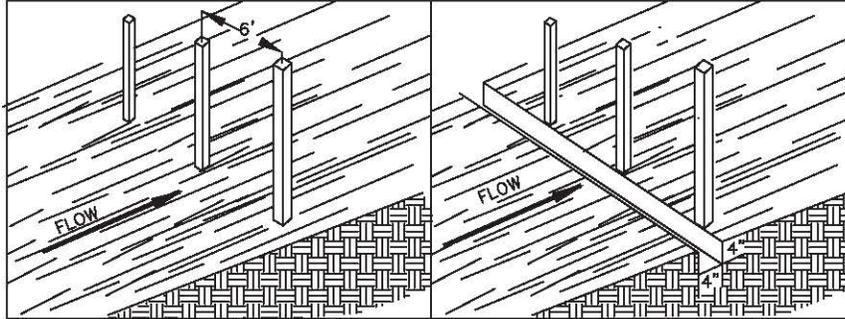
**DEFINITION:**

A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. THE SILT FENCE IS A TEMPORARY LINEAR BARRIER CONSTRUCTED OF SYNTHETIC FILTER FABRIC AND SUPPORTED BY WOODEN OR STEEL POSTS.

**PURPOSES:**

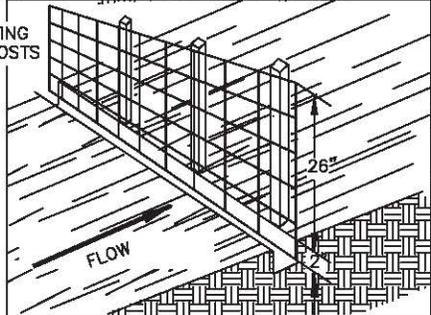
1. TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS IN ORDER TO REDUCE SEDIMENT IN RUNOFF FROM LEAVING THE SITE.
2. TO DECREASE THE VELOCITY OF SHEET FLOWS AND LOW-TO-MODERATE LEVEL CONCENTRATED FLOWS.

1. SET POSTS.

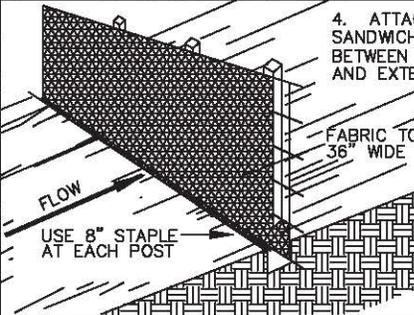


2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE POSTS.

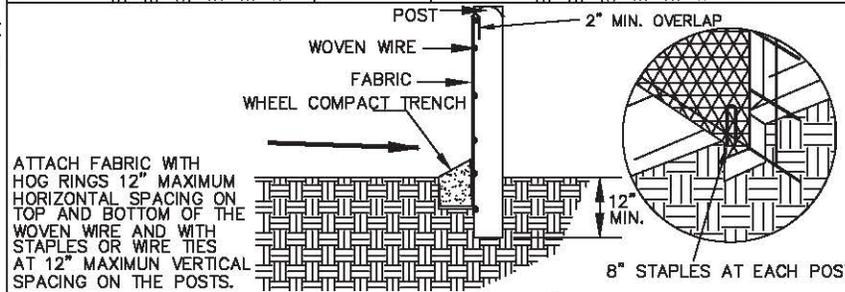
3. ATTACH A SUPPORTING WIRE FENCE TO THE POSTS



4. ATTACH FABRIC, SANDWICH FABRIC OVERLAP BETWEEN POSTS AND WIRE AND EXTEND INTO TRENCH.

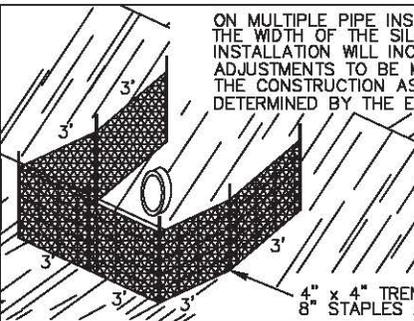
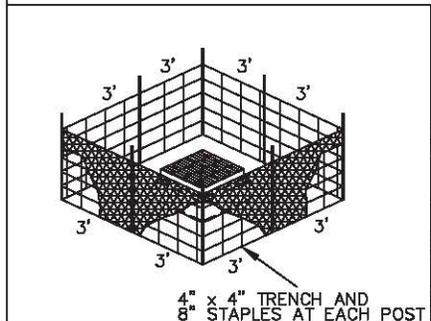


5. BACKFILL TRENCH. IF ROCK TYPE SOILS ARE ENCOUNTERED, UTILIZE 30 TO 40 LB SANDBAGS BUTTED END TO END TO PREVENT UNDERFLOW.



ATTACH FABRIC WITH HOG RINGS 12" MAXIMUM HORIZONTAL SPACING ON TOP AND BOTTOM OF THE WOVEN WIRE AND WITH STAPLES OR WIRE TIES AT 12" MAXIMUM VERTICAL SPACING ON THE POSTS.

ON MULTIPLE PIPE INSTALLATIONS, THE WIDTH OF THE SILT FENCE INSTALLATION WILL INCREASE. ADJUSTMENTS TO BE MADE ON THE CONSTRUCTION AS DETERMINED BY THE ENGINEER.



FENCE MATERIAL SHALL CONFORM TO GEOTEXTILE SPECIFICATIONS, SECTION 831 OF SDDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION.

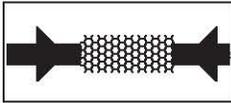
REVISED: OCTOBER 2005

SPECIFICATION  
REFERENCE  
NO.  
**734**

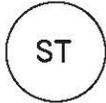


CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**SILT FENCE (WOVEN WIRE)**

PLATE  
NUMBER  
**734.09**



# TEMPORARY SEDIMENT TRAP

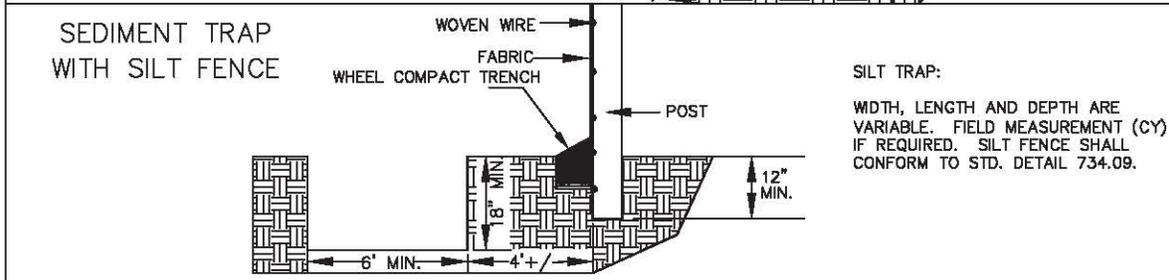
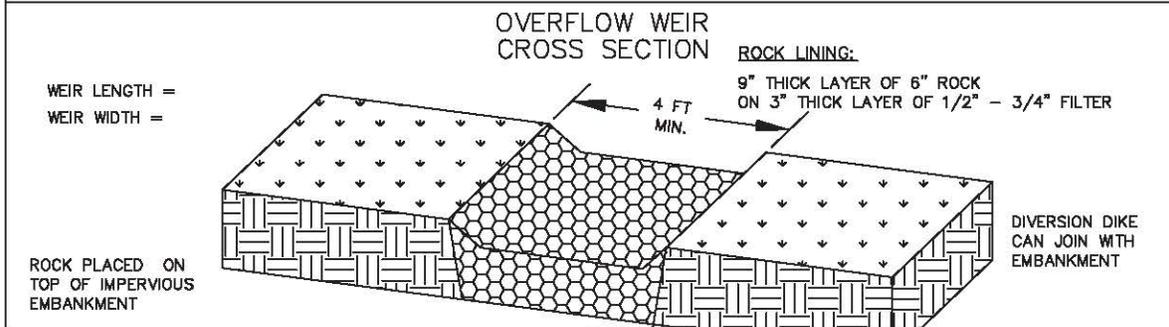
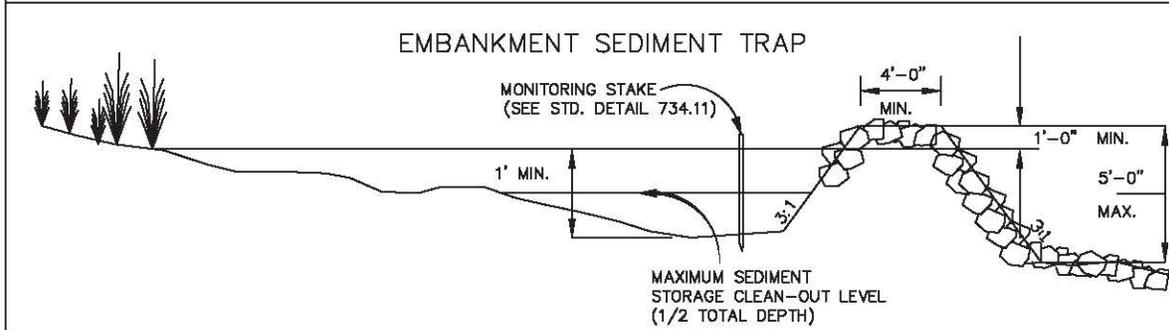
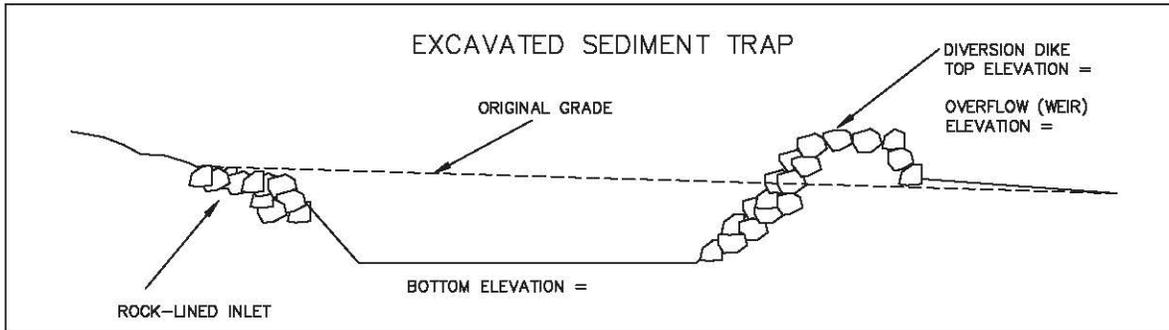


**DEFINITION:**

A SMALL TEMPORARY PONDING AREA, FORMED BY CONSTRUCTING A EARTHEN EMBANKMENT WITH A ROCK-COVERED OUTLET ACROSS A DRAINAGE SWALE, OR BY EXCAVATION OF A DEPRESSION BELOW ORIGINAL GRADE. RELATIVE ELEVATIONS SHOULD CONTAIN ALL RUNOFF WITHIN THE TRAP AREA/

**PURPOSES:**

TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS LONG ENOUGH TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT.



SEE CITY DESIGN STANDARDS, CHAPTER 12, FOR TRAP SIZE.

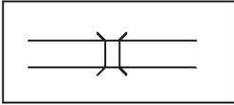
REVISED: OCTOBER 2005

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**TEMPORARY SEDIMENT TRAP**

PLATE  
NUMBER  
**734.10**



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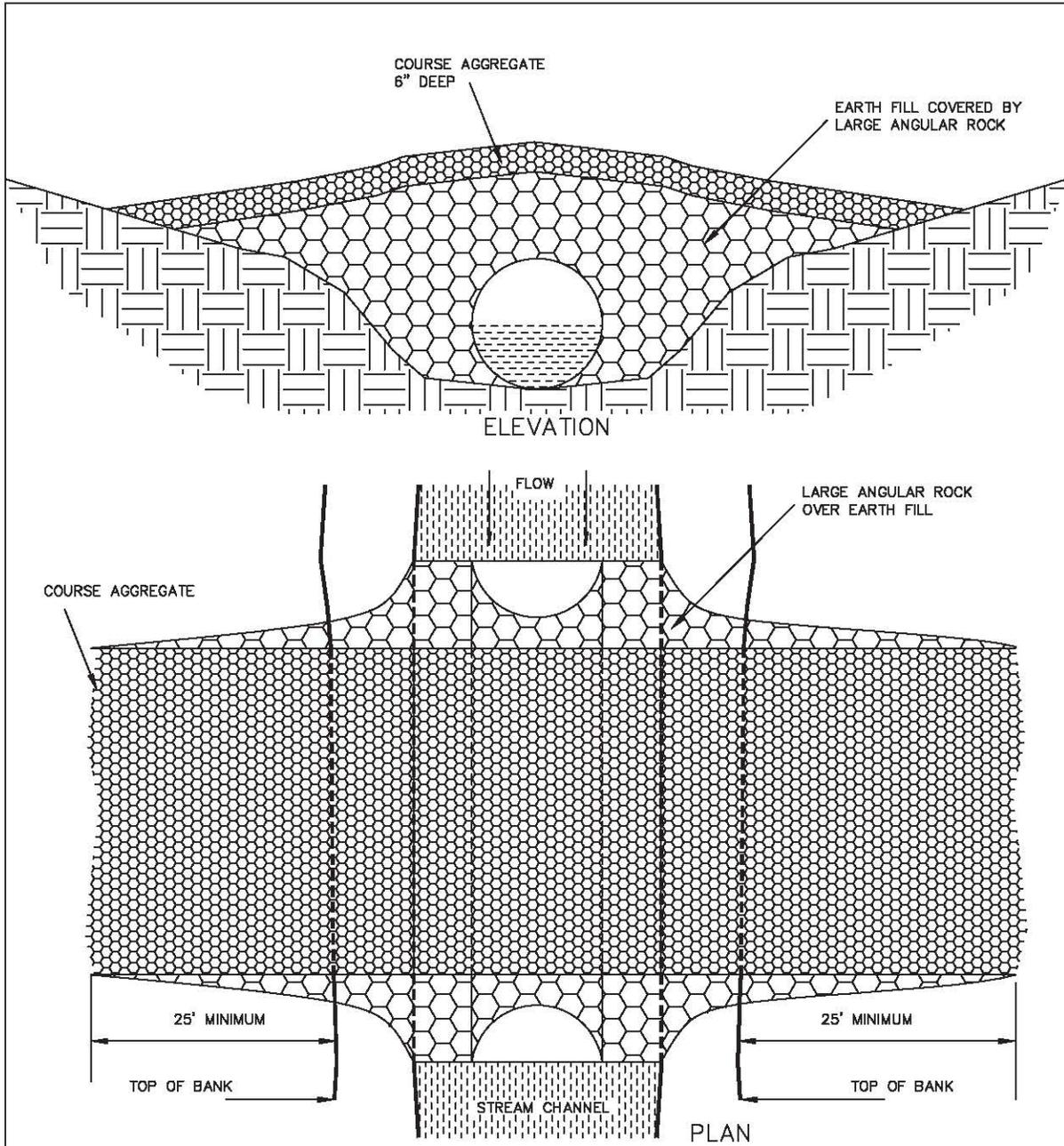
# TEMPORARY STREAM CROSSING

DEFINITION:

A TEMPORARY STRUCTURAL SPAN INSTALLED ACROSS A FLOWING WATERCOURSE FOR USE BY CONSTRUCTION TRAFFIC. STRUCTURES MAY INCLUDE BRIDGES, ROUND PIPES OR PIPE ARCHES.

PURPOSES:

TO STABILIZE STREAM CROSSINGS AND REDUCE EROSION CREATED BY CONSTRUCTION TRAFFIC.



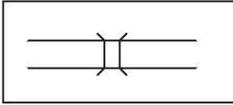
REVISED: JUNE 2000

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**TEMPORARY STREAM CROSSING**

PLATE  
NUMBER  
**734.12**



# TEMPORARY STREAM CROSSING

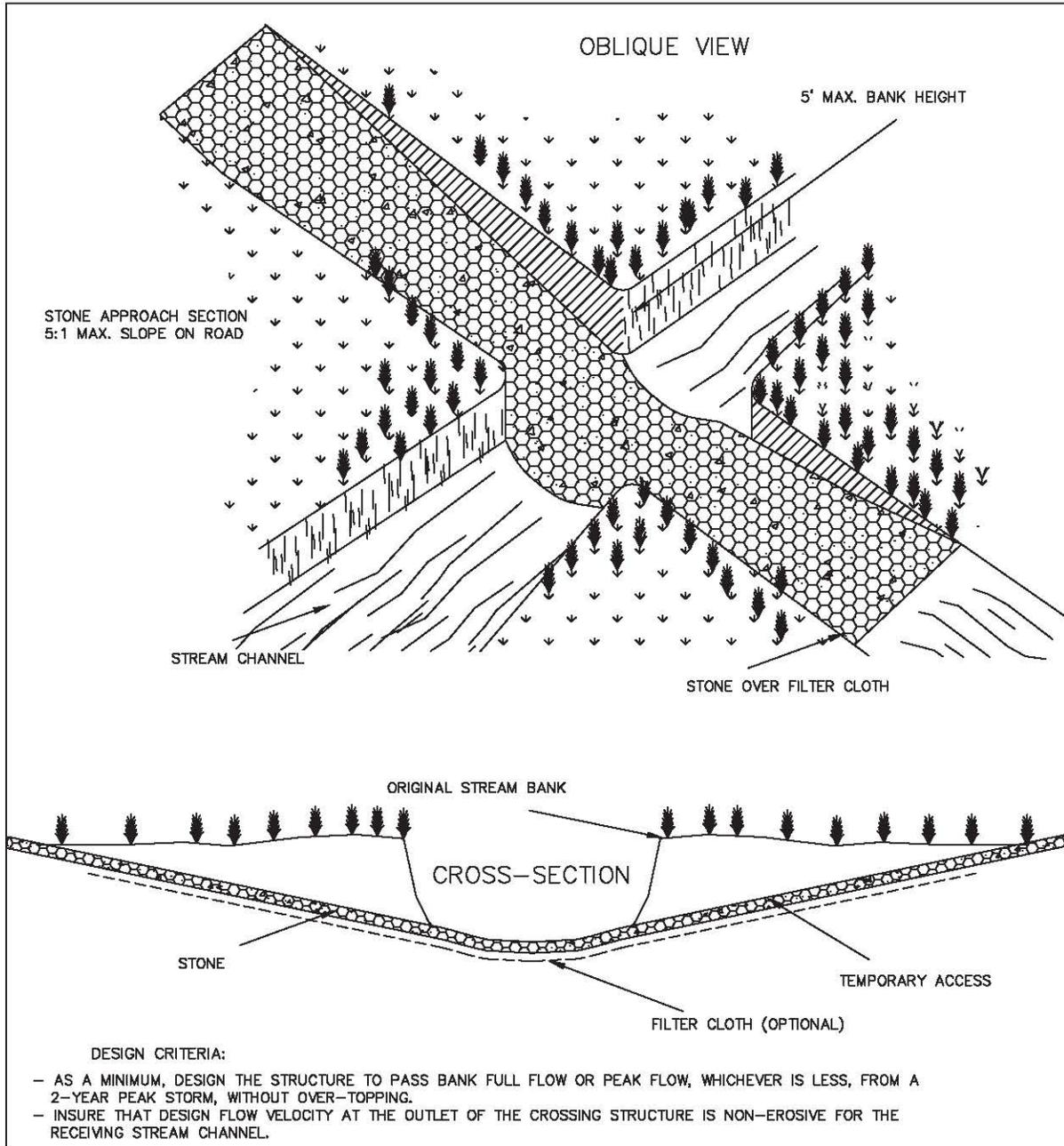
SC

### DEFINITION:

A TEMPORARY AT-GRADE STREAM CROSSING INSTALLED ACROSS A NORMALLY DRY WATERCOURSE FOR USE BY CONSTRUCTION TRAFFIC.

### PURPOSES:

TO STABILIZE STREAM CROSSINGS AND REDUCE EROSION CREATED BY CONSTRUCTION TRAFFIC.



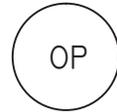
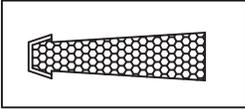
REVISED: JUNE 2000

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**TEMPORARY STREAM CROSSING**

PLATE  
NUMBER  
**734.13**



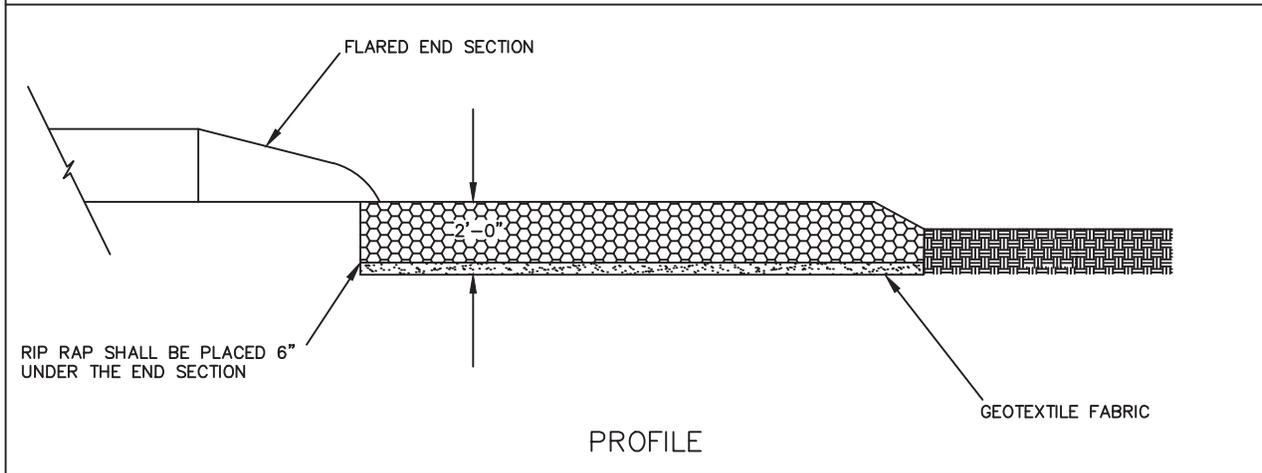
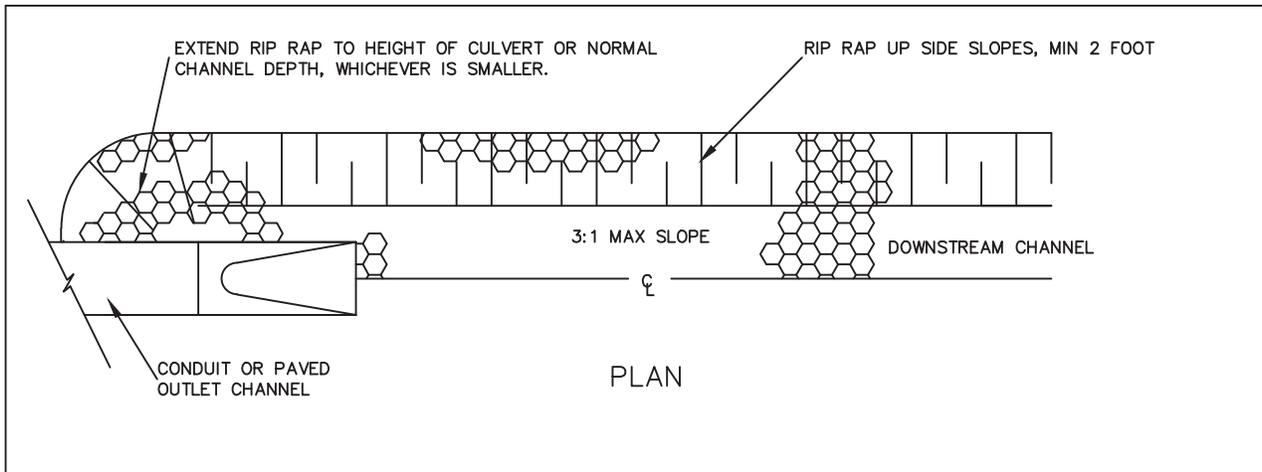
# OUTLET PROTECTION

## DEFINITION:

STRUCTURALLY LINED APRONS OR OTHER ACCEPTABLE ENERGY DISSIPATING DEVICES PLACED AT THE OUTLETS OF PIPES OR PAVED CHANNEL SECTIONS.

## PURPOSES:

1. TO PREVENT SCOUR AT STORM WATER OUTLETS AND TO MINIMIZE THE POTENTIAL FOR DOWNSTREAM EROSION BY REDUCING THE VELOCITY OF CONCENTRATED STORM WATER FLOWS.



QUANTITY AND SIZE OF RIP RAP TO BE DETERMINED BY DESIGN.  
ALL RIP RAP SHALL BE UNDERLAID BY A SUITABLE FILTER FABRIC.

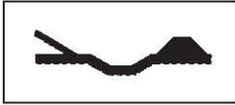
REVISED: DECEMBER 2009

SPECIFICATION  
REFERENCE  
NO.  
734

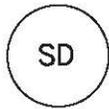


CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
OUTLET PROTECTION

PLATE  
NUMBER  
734.14

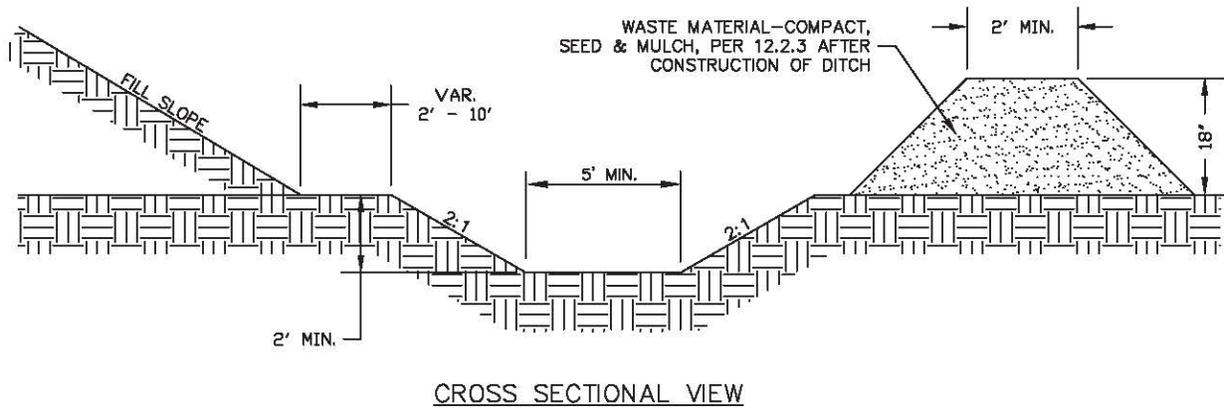


# SILT DITCH



**NOTES:**

1. SILT SHALL BE REMOVED WHEN SILT DITCH IS ONE-HALF FULL.
2. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.



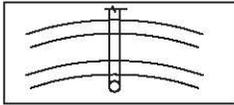
REVISED: OCTOBER 2005

SPECIFICATION  
REFERENCE  
NO.  
**734**



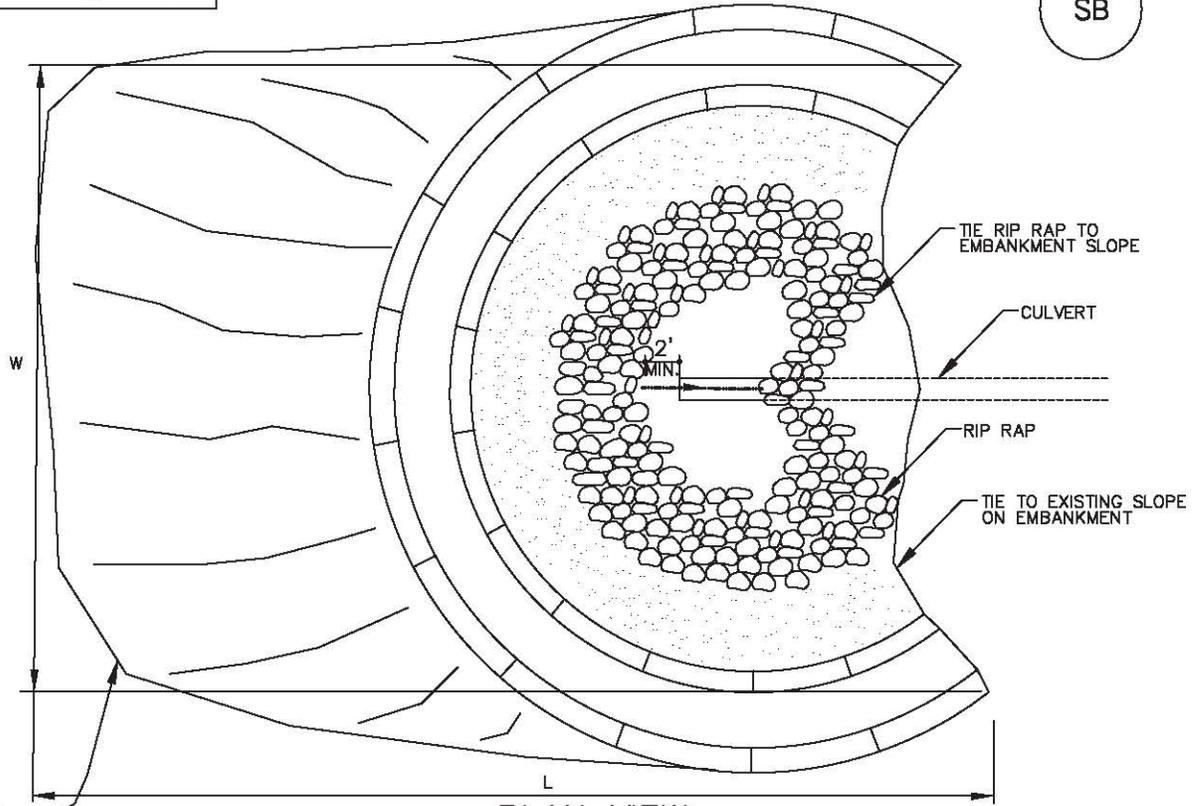
CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**SILT DITCH**

PLATE  
NUMBER  
**734.22**



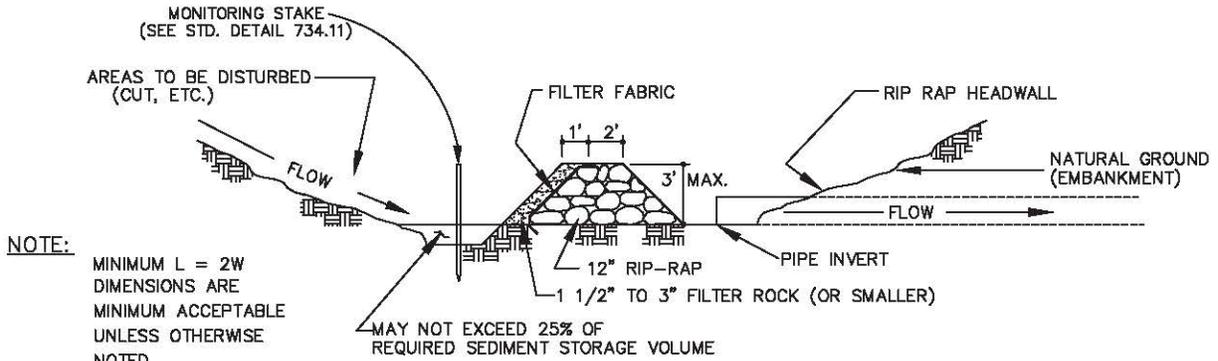
# SEDIMENT BASIN HORSESHOE FILTER

SB



EXTENT OF EXCAVATED VOLUME\*

## PLAN VIEW



**NOTE:**

MINIMUM L = 2W  
DIMENSIONS ARE  
MINIMUM ACCEPTABLE  
UNLESS OTHERWISE  
NOTED.

MAY NOT EXCEED 25% OF  
REQUIRED SEDIMENT STORAGE VOLUME

## SECTION THRU BASIN, FILTER AND CULVERT PIPE

NO SCALE

**NOTE:**

GRAVEL & RIP RAP FILTER BERM BASIN  
IS DESIGNED TO PROTECT EXISTING PIPE  
INVERTS THAT DRAIN 50 ACRES OR LESS.

\* EXISTING TOPOGRAPHY MAY PROVIDE FOR  
REQUIRED STORAGE VOLUME WITHOUT  
EXCAVATION

VOLUME REQUIRED = 3600 CF / AC X TRIBUTARY ACRE  
VOLUME PROVIDED = CF  
BOTTOM ELEVATION =  
TOP ELEVATION =

REVISED: JANUARY 2008

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
SEDIMENT BASIN  
HORSESHOE FILTER

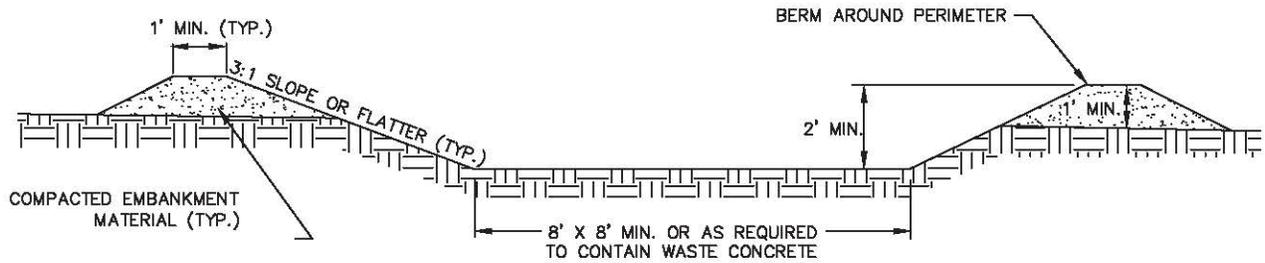
PLATE  
NUMBER  
**734.23**

# CONCRETE WASHOUT FACILITY



## NOTES:

1. CONCRETE WASHOUT FACILITY SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. A SIGN SHALL BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE CWF.
3. THE CONCRETE WASHOUT FACILITY SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
4. WHEN CWF ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE AND MATERIALS USED TO CONSTRUCT THE CWF SHALL BE REMOVED AND DISPOSED OF.
5. WHEN THE CONCRETE WASHOUT FACILITY IS REMOVED, THE HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE SHALL BE BACKFILLED, REPAIRED AND STABILIZED.



CROSS SECTIONAL VIEW

REVISED: DECEMBER 2008

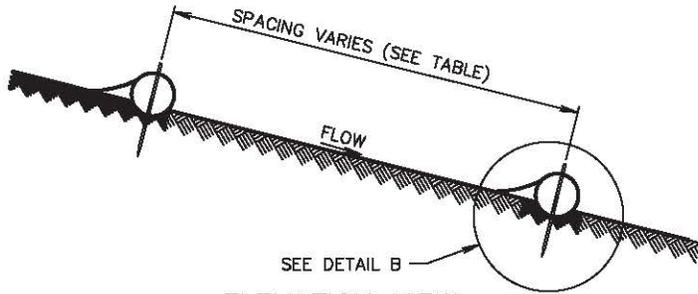
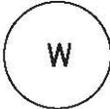
SPECIFICATION  
REFERENCE  
NO.  
734



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
CONCRETE WASHOUT FACILITY

PLATE  
NUMBER  
734.28

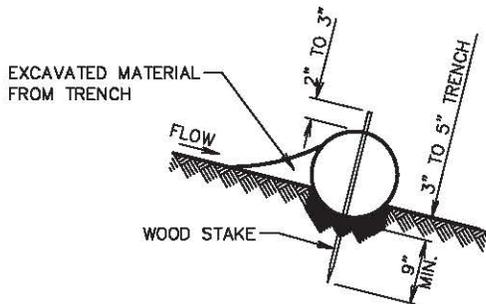
# SEDIMENT CONTROL WATTLE



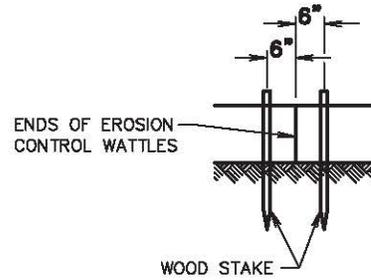
ELEVATION VIEW  
CUT OR FILL SLOPE INSTALLATION

CUT OR FILL SLOPE INSTALLATION	
SLOPE	SPACING (FT)
1:1	10
2:1	20
3:1	30
4:1	40

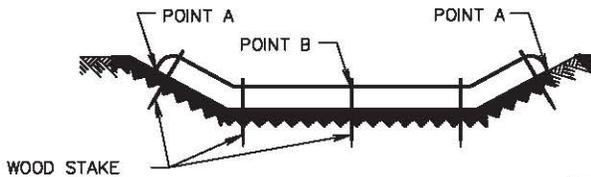
NOTE: IF ONLY ONE WATTLE IS REQUIRED, THE SLOPE SHALL NOT EXCEED 20:1.



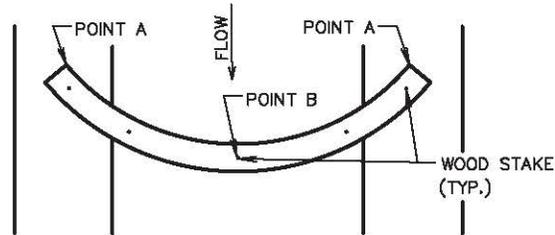
DETAIL B  
(TYPICAL OF ALL INSTALLATIONS)



DETAIL C



SECTION A-A



PLAN VIEW  
DITCH INSTALLATION

**GENERAL NOTES:**

AT CUT OR FILL SLOPE INSTALLATIONS, WATTLES SHALL BE INSTALLED ALONG THE CONTOUR AND PERPENDICULAR TO THE WATER FLOW.

AT DITCH INSTALLATIONS, POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE WATTLE AND NOT AROUND THE ENDS.

THE CONTRACTOR SHALL DIG A 3" TO 5" TRENCH, INSTALL THE WATTLE TIGHTLY IN THE TRENCH SO THAT DAYLIGHT CAN NOT BE SEEN UNDER THE WATTLE, AND THEN COMPACT THE SOIL EXCAVATED FROM THE TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. SEE DETAIL B.

THE STAKES SHALL BE 1"X2" OR 2"X2" WOOD STAKES, HOWEVER, OTHER TYPES OF STAKES SUCH AS REBAR MAY BE USED ONLY IF APPROVED BY THE ENGINEER. THE STAKES SHALL BE PLACED 6" FROM THE ENDS OF THE WATTLES AND THE SPACING OF THE STAKES ALONG THE WATTLES SHALL BE 3' TO 4'.

WHERE INSTALLING RUNNING LENGTHS OF WATTLES, THE CONTRACTOR SHALL BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST AND SHALL NOT OVERLAP THE ENDS. SEE DETAIL C.

DITCH INSTALLATION	
GRADE	SPACING (FT)
2%	150
3%	100
4%	75
5%	50

ISSUED: OCTOBER 2005

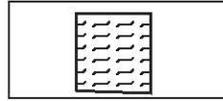
SPECIFICATION  
REFERENCE  
NO.  
**734**



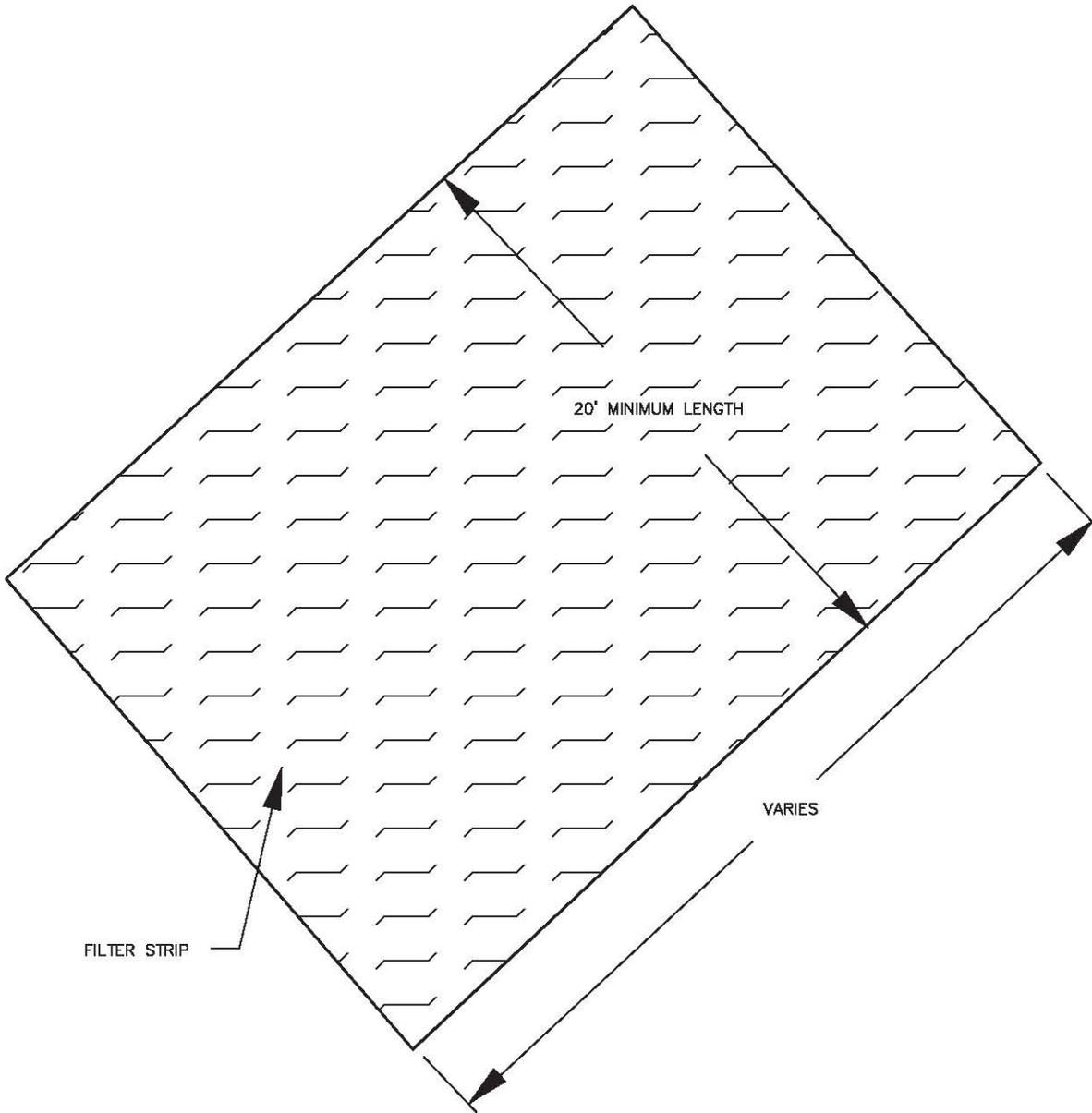
CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**SEDIMENT CONTROL WATTLE**

PLATE  
NUMBER  
**734.29**

# FILTER STRIP



FS



NOTE: FILTER STRIPS SHALL BE UNDISTURBED NATURAL VEGETATION OR SOD.

ISSUED: DECEMBER 2007

SPECIFICATION  
REFERENCE  
NO.  
**734**



CITY OF SIOUX FALLS  
ENGINEERING DIVISION  
**FILTER STRIP**

PLATE  
NUMBER  
**734.31**