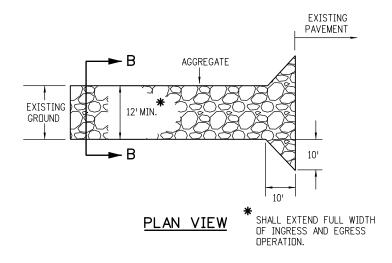
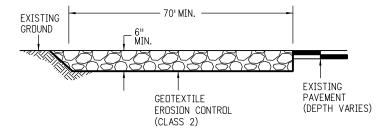


#### NOTES:

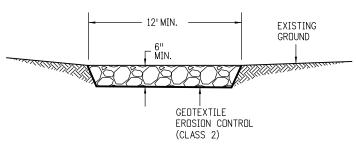
- 1. EROSION BALES MAY BE USED AS AN ALTERNATIVE FOR THE BERM.
- 2. A FENCE (PLASTIC) CONFORMING TO SUBSECTION 607.02 SHALL BE INSTALLED AROUND THE CONCRETE WASHOUT AREA, EXCEPT AT THE OPENING.
- 3. THE CONCRETE WASHOUT SIGN SHALL HAVE LETTERS AT LEAST 3 INCHES HIGH AND CONFORM TO SUBSECTION 630.02.

#### CONCRETE WASHOUT STRUCTURE





#### **ELEVATION SECTION**



#### SECTION B-B

#### NOTES:

- AGGREGATE FOR THE CONSTRUCTION ENTRANCE SHALL CONFORM TO SUBSECTION 208.02 (K).
- 2. THE CONTRACTOR SHALL PROTECT CURB AND GUTTER THAT CROSSES THE ENTRANCE FROM DAMAGE.PROTECTION OF THE CURB AND GUTTER WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

#### VEHICLE TRACKING PAD

Computer File Information	
Creation Date: 06/08/10 Initials: DD	
Last Modification Date: 07/29/11 Initials: LTA	Œ
Full Path: www.dot.state.co.us/DesignSupport/	Œ
Drawing File Name: 2080101012.dgn	Œ
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	O

	Sheet Revisions				
	Date:	Comments			
(R-X)	08/26/10	Revised to meet new water quality standards.			
$\overline{R-X}$		Revised sheets 1-7 and added sheets 8-12.			
$\mathbb{R}$ -X	07/29/11	Revised sheet 5 of 12.			

Colorado Department of Transportation



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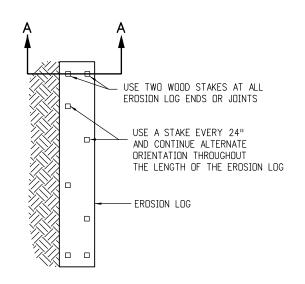
DD/LTA

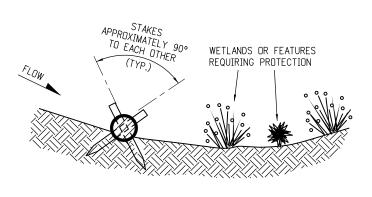
<b>TEMPORARY</b>
<b>EROSION CONTROL</b>

STANDARD PLAN NO.

M-208-1

Issued By: Project Development Branch on July 04, 2006 Sheet No. 1 of 12

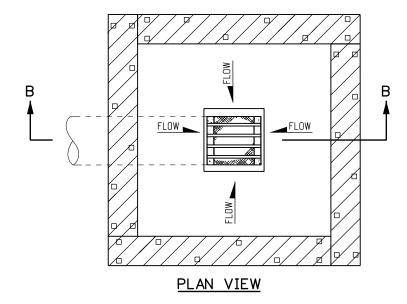


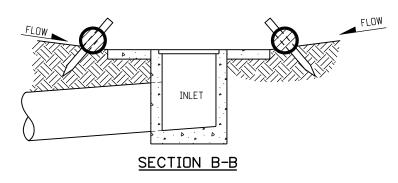


PLAN VIEW

SECTION A-A

TYPICAL STAKE INSTALLATION





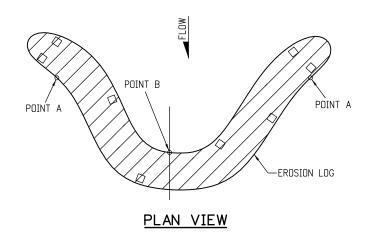
NOTE: LOCATE EROSION LOGS AT THE DUTSIDE EDGE OF THE CONCRETE APRON.

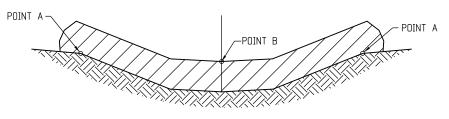
EROSION LOG FILTER AT DROP INLET

# EROSION LOG APPLICATIONS

#### <u>NOTES</u>

- 1. EROSION LOGS SHALL BE EMBEDDED 2 INCHES INTO THE SOIL.
- 2. STAKES SHALL BE EMBEDDED TO A MINIMUM DEPTH OF 12 INCHES.
- 3. EROSION LOGS SHALL BE TIGHTLY ABUTTED WITH NO GAPS.





POINTS A SHALL BE HIGHER THAN POINT B.

#### **ELEVATION**

EROSION LOG DITCH INSTALLATION

Computer File Information		
Creation Date: 06/08/10 Initials: DD		
Last Modification Date: 07/29/11 Initials: LTA	$\overline{\mathbb{R}-X}$	
Full Path: www.dot.state.co.us/DesignSupport/	$\overline{\mathbb{R}-X}$	
Drawing File Name: 2080102012.dgn	$\overline{R-X}$	08
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)	

	Sheet Revisions					
	Date:	Comments				
(R-X)	00/00/40	Revised to meet new water quality standards.				
R-X	08/26/10	Revised sheets 1-7.				
(R-X)		Added sheets 8-12.				

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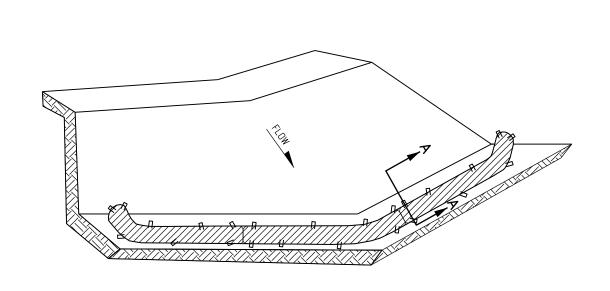
DD/LTA

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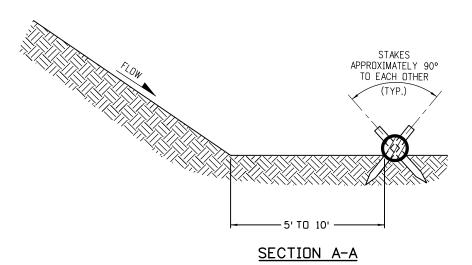
TEMPORARY EROSION CONTROL STANDARD PLAN NO.
M-208-1

Issued By: Project Development Branch on July 04, 2006

Sheet No. 2 of 12



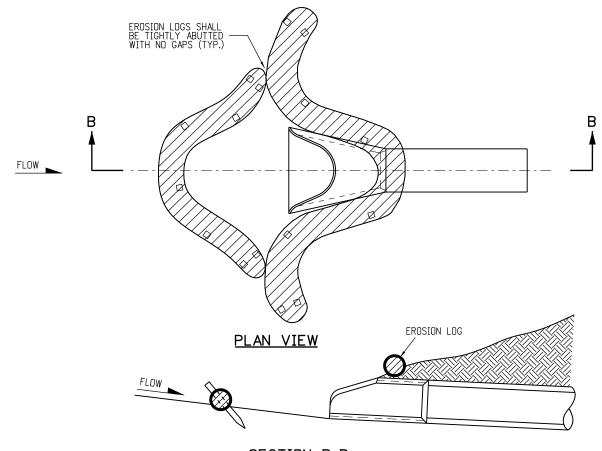
#### ISOMETRIC VIEW



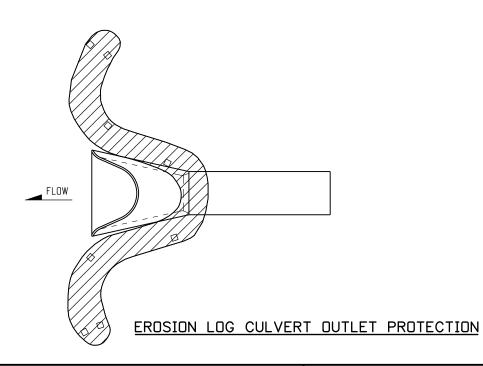
#### NOTES:

- 1. EROSION LOGS USED AT TOE OF SLOPE SHALL BE PLACED 5 TO 10 FEET BEYOND TOE OF SLOPE TO PROVIDE STORAGE CAPACITY.
- 2. EROSION LOGS SHALL BE PLACED ON THE CONTOUR, WITH ENDS FLARED UP SLOPE.

### EROSION LOG TOE OF SLOPE PROTECTION



SECTION B-B
EROSION LOG CULVERT INLET PROTECTION



F	ROSTON	ΙΠG	APPI	<b>ICATIONS</b>
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Computer File Informati	on			Sheet Revisions
Creation Date: 06/08/10 Init	ials: DD		Date:	Comments
Last Modification Date: 07/29/11 Initi	ials: LTA	R-X		Revised to meet new water quality standards
Full Path: www.dot.state.co.us/DesignSupp	ort/	R-X	08/26/10	
Drawing File Name: 2080103012.dgn		(R-X)	06/26/10	Revised sheets 1-7.
CAD Ver.: MicroStation V8 Scale: Not to Scale L	Jnits: English	(R-X)		Added sheets 8-12.

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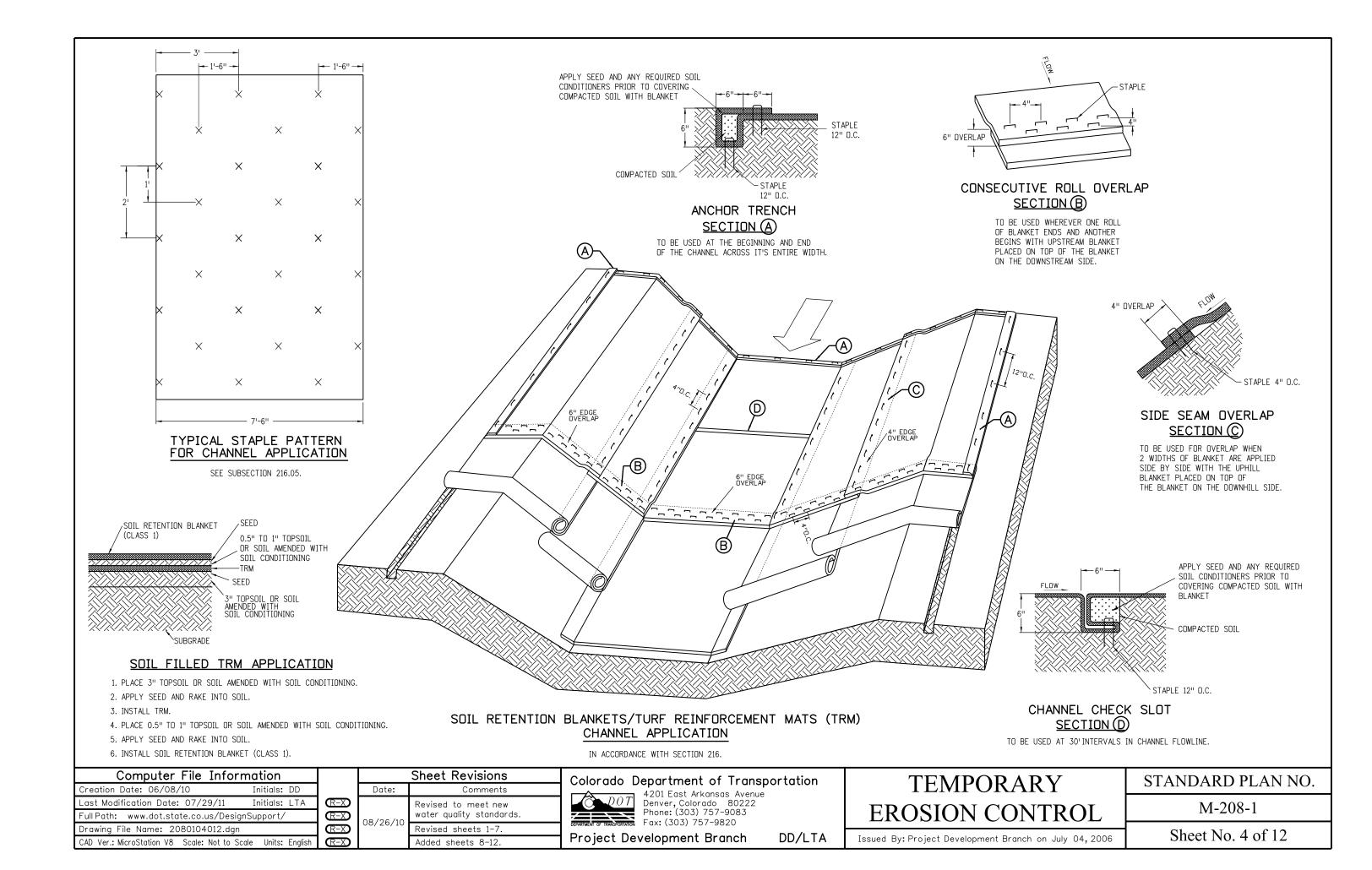
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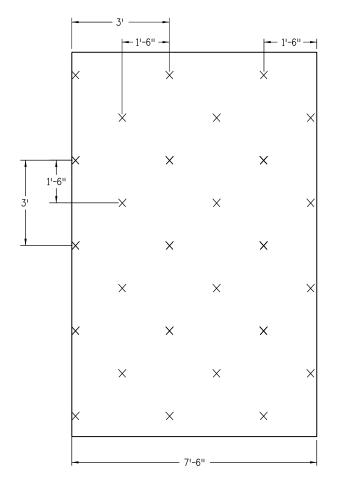
STANDARD PLAN NO.

M-208-1

Issued By: Project Development Branch on July 04, 2006

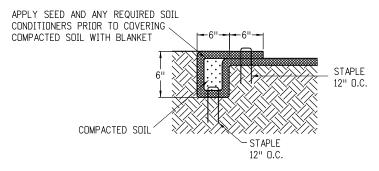
Sheet No. 3 of 12





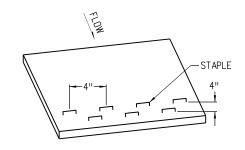
TYPICAL STAPLE PATTERN FOR SLOPE APPLICATION

SEE SUBSECTION 216.04.



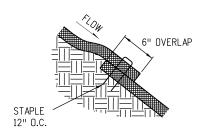
# ANCHOR TRENCH SECTION (A)

TO BE USED AT THE UPSLOPE AND DOWNSLOPE ENDS OF BLANKET ACROSS THE ENTIRE WIDTH OF SLOPE UNLESS SLOPE RUNS INTO RECEIVING WATER. (SEE DOWNSLOPE END STAPLE CHECK).



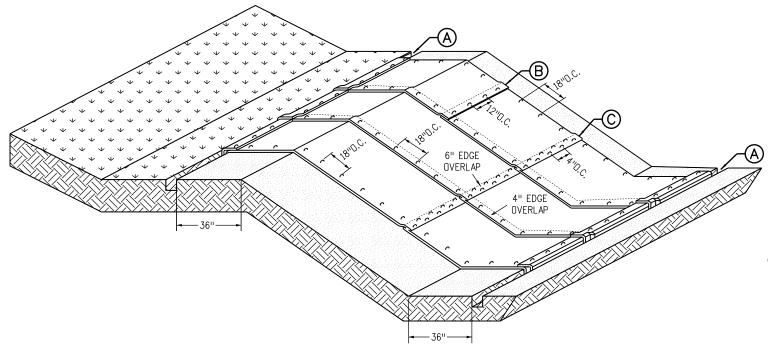
#### DOWNSLOPE END STAPLE CHECK

TO BE USED WHEN SLOPE RUNS INTO A RECEIVING WATER AND CANNOT BE EXTENDED 3 FEET BEYOND SLOPE.



# CONSECUTIVE ROLL OVERLAP SECTION (B)

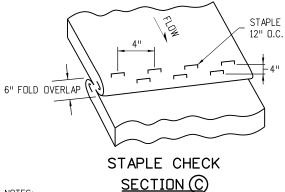
TO BE USED WHEREVER ONE ROLL OF BLANKET ENDS AND ANOTHER BEGINS WITH THE UPHILL BLANKET PLACED ON TOP OF THE BLANKET ON THE DOWNHILL SIDE.



# SOIL RETENTION BLANKETS/TURF REINFORCEMENT MATS (TRM) SLOPE APPLICATION

IN ACCORDANCE WITH SECTION 216.

DD/LTA



- 1. Z SHAPED FOLD TO BE USED ON SLOPE EVERY 35 FEET MAXIMUM.
- 2. STAPLE CHECK LOCATIONS SHOULD BE AT LEAST 15 FEET FROM THE BOTTOM OF SLOPE.

NOTES:

Computer File Inform	ation
Creation Date: 06/08/10	Initials: DD
Last Modification Date: 07/29/11	Initials: LTA
Full Path: www.dot.state.co.us/DesignS	Support/
Drawing File Name: 2080105012.dgn	
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	Sheet Revisions					
	Date:	Comments				
$\mathbb{R}$ -X		Revised to meet new water quality standards.				
$\mathbb{R}$ -X	08/26/10	Revised sheets 1-7.				
$\mathbb{R}$ -X		Added sheets 8-12.				
$\mathbb{R}$ -X	07/29/11	Revised Staple Check Detail.				

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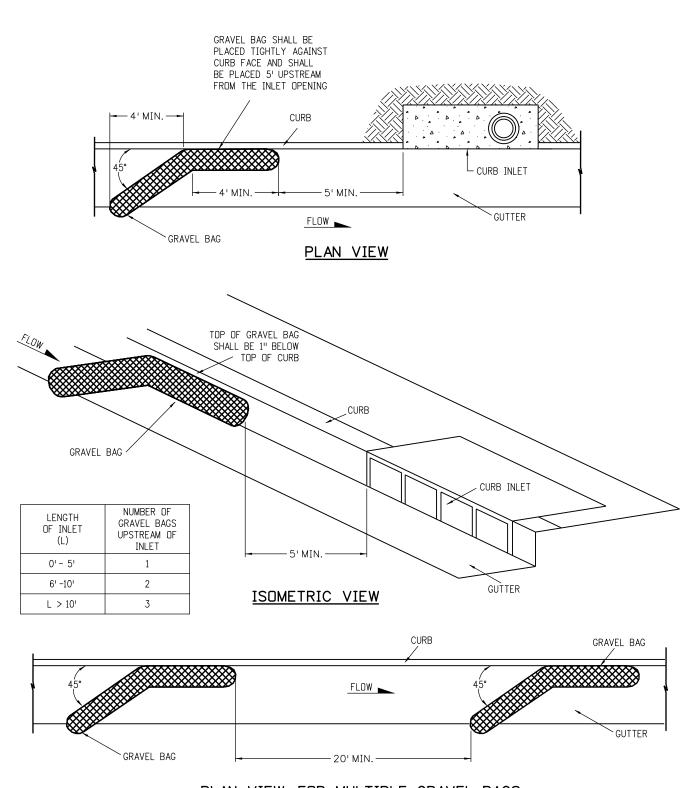
Project Development Branch

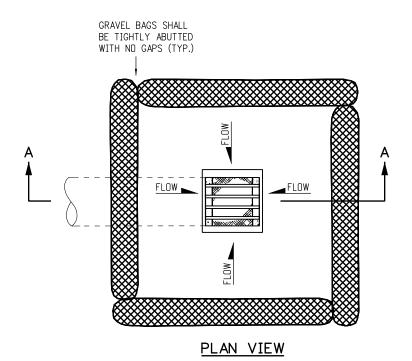
TEMPORARY EROSION CONTROL STANDARD PLAN NO.

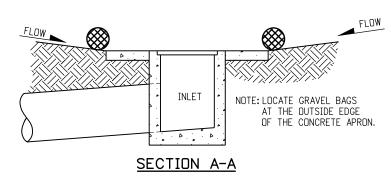
M-208-1

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Sheet No. 5 of 12







GRAVEL BAG FILTER AT DROP INLET

### PLAN VIEW FOR MULTIPLE GRAVEL BAGS

GRAVEL BAG CURB CHECK

# **GRAVEL BAG APPLICATIONS**

Computer File Information				Sheet Revisions
Creation Date: 07/04/06 Initia	als: DD		Date:	Comments
Last Modification Date: 07/29/11 Initia	als: LTA	(R-X)		Revised to meet new water quality standards.
Full Path: www.dot.state.co.us/DesignSupport/		R-X	08/26/10	1 1
Drawing File Name: 2080106012.dgn		(R-X)	06/26/10	Revised sheets 1-7.
CAD Ver.: MicroStation V8 Scale: Not to Scale U	nits: English	(R-X)		Added sheets 8-12.

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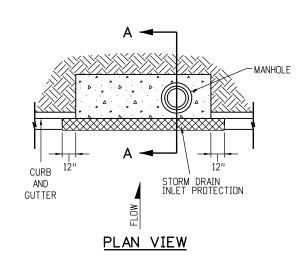
# TEMPORARY EROSION CONTROL

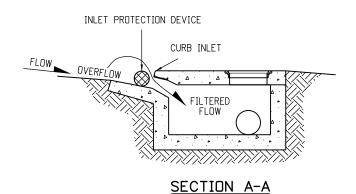
STANDARD PLAN NO.

M-208-1

Issued By: Project Development Branch on July 04, 2006

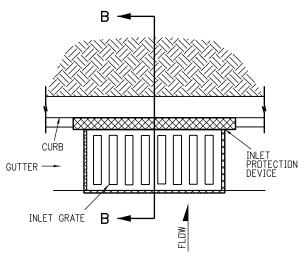
Sheet No. 6 of 12



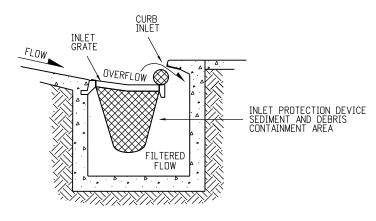


# STORM DRAIN INLET PROTECTION (TYPE I)

INLET PROTECTION SHALL EXTEND 12 IN. PAST EACH END OF THE INLET.

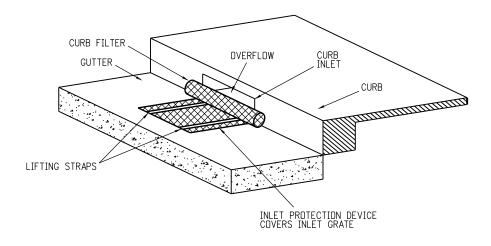


### PLAN VIEW



SECTION B-B

STORM DRAIN INLET PROTECTION (TYPE II) OPTION A



#### ISOMETRIC VIEW

STORM DRAIN INLET PROTECTION (TYPE II) OPTION B

# STORM DRAIN INLET PROTECTION

Computer File Information			Sheet Revisions
Creation Date: 07/04/06 Initials: DD		Date:	Comments
Last Modification Date: 07/29/11 Initials: LTA	$\mathbb{R}$ -X		Revised to meet new water quality standards.
Full Path: www.dot.state.co.us/DesignSupport/		08/26/10	
Drawing File Name: 2080107012.dgn		06/26/10	Revised sheets 1-7.
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	R-X		Added sheets 8-12.

# Colorado Department of Transportation



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DD/LTA

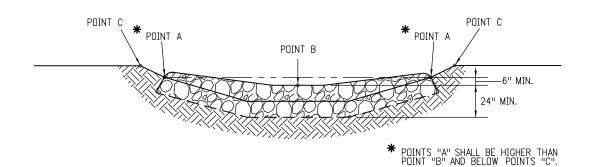
Project Development Branch

**TEMPORARY EROSION CONTROL**  STANDARD PLAN NO.

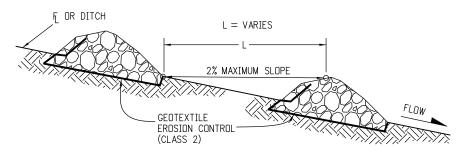
M-208-1

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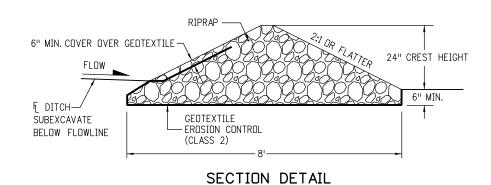
Sheet No. 7 of 12



#### TYPICAL SECTION VIEW

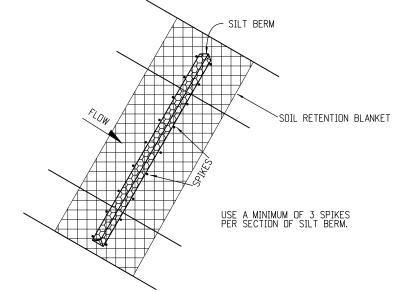


#### SECTION VIEW ALONG DITCH FLOWLINE



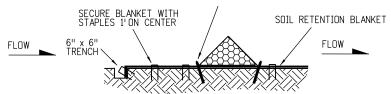
- 1. RIPRAP SIZE  $D_{50}$  = 6" OR AS SHOWN ON THE PLANS.
- 2. THE ENDS OF RIPRAP CHECK DAM SHALL BE A MINIMUM OF 6 IN. HIGHER THAN CENTER OF CHECK DAM.

#### ROCK CHECK DAM



#### PLAN VIEW

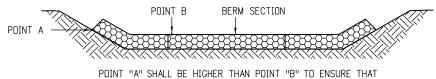
SECURE SILT BERM WTTH SPIKES 10-12" DEEP (TYP.)



#### TYPICAL SECTION VIEW

#### NOTES:

- 1. ANCHOR SOIL RETENTION BLANKET INTO TRENCH WITH 8" MINIMUM STAPLES PLACED AT 1.5' INTERVALS ALONG EDGE.
- 2. FILL AND COMPACT TRENCH.
- 3. SECTIONS OF THE SILT BERM SHALL BE OVERLAPPED WITH NO GAPS.



WATER FLOWS OVER THE BERM AND NOT AROUND THE ENDS.

#### FRONT VIEW

#### SILT BERM-VELOCITY CHECKS

# DRAINAGE DITCH APPLICATIONS

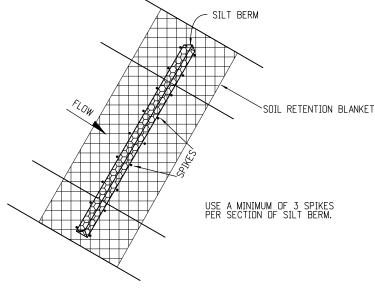
Project Development Branch

#### **TEMPORARY** Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 **EROSION CONTROL** Phone: (303) 757-9083 Fax: (303) 757-9820

STANDARD PLAN NO.

M-208-1

Sheet No. 8 of 12



# STAPLES 8" DEEP (TYP.) APRON FLOW 6" x 6" TRENCH

PLAN VIEW

1' ON CENTER

STAPLES

APRON

#### TYPICAL SECTION

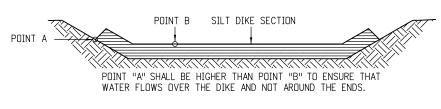
#### NOTES:

1. ANCHOR APRON INTO TRENCH WITH 8" MINIMUM STAPLES PLACED AT 1.5' INTERVALS ALONG EDGE.

- SILT DIKE SECTION

SILT DIKE UNIT

- 2. FILL AND COMPACT TRENCH.
- 3. THE APRON SHALL EXTEND A MINIMUM OF 2 FEET BEYOND EACH SIDE OF THE TRIANGLE.

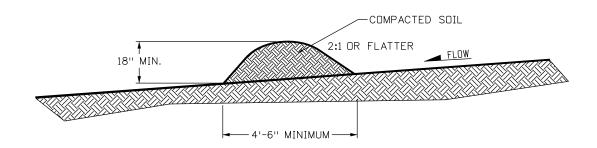


#### FRONT VIEW

#### SILT DIKE-INSTALLATION

Computer File Information			Sheet Revisions
Creation Date: 07/04/06 Initials: DD		Date:	Comments
Last Modification Date: 07/29/11 Initials: LTA	$\mathbb{R}$ -X		Revised to meet new
Full Path: www.dot.state.co.us/DesignSupport/	$\mathbb{R}$ -X	08/26/10	water quality standards.
Drawing File Name: 2080108012.dgn		08/20/10	Revised sheets 1-7.
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	R-X		Added sheets 8-12.
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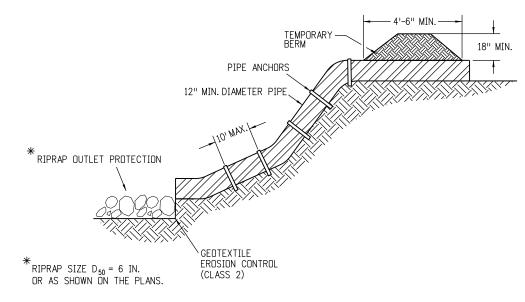
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#### TEMPORARY BERM

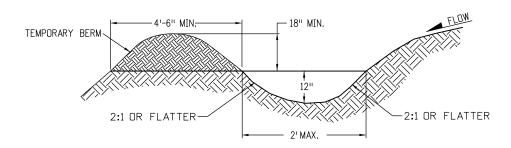
#### NOTES:

- 1. BERMS SHALL HAVE A HEIGHT OF 18 INCHES, SIDE SLOPES OF 2:1 OR FLATTER AND A MINIMUM BASE WIDTH OF 4.5 FEET.
- 2. BERMS SHALL BE USED TO INTERCEPT AND DIVERT DRAINAGE TO A DESIGNATED OUTLET.
- 3. BERMS SHALL NOT BE USED WHERE DRAINAGE AREA EXCEEDS 10 ACRES.



#### TEMPORARY SLOPE DRAIN

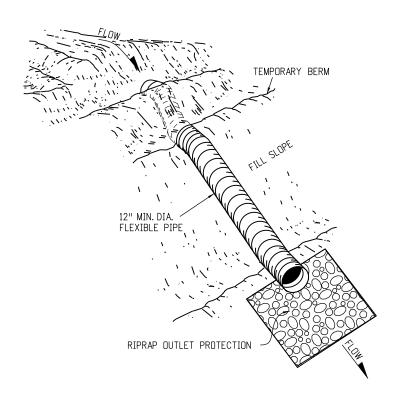
ANCHOR SIZE VARIES ACCORDING TO PIPE SIZE.



#### TEMPORARY DIVERSION

#### NOTES:

- 1. TEMPORARY DIVERSION DITCH SHALL BE CONSTRUCTED ACROSS THE SLOPE TO INTERCEPT RUNOFF AND DIRECT IT TO A STABLE OUTLET OR SEDIMENT TRAP.
- 2. USE IMMEDIATELY ABOVE A NEW CUT OR FILL SLOPE OR AROUND THE PERIMETER OF A DISTURBED AREA.
- 3. GRADIENT ALONG THE FLOW PATH SHALL HAVE A POSITIVE GRADE TO ASSURE DRAINAGE, BUT SHALL NOT BE SO STEEP AS TO RESULT IN EROSION DUE TO HIGH VELOCITY.



Computer File Inform	ation
Creation Date: 06/08/10	Initials: DD
Last Modification Date: 07/29/11	Initials: LTA
Full Path: www.dot.state.co.us/Design	Support/
Drawing File Name: 2080109012.dgn	
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	Sheet Revisions				
	Date:	Comments			
(R-X) (R-X) 08/26/10	Revised to meet new water quality standards.				
$\overline{R-X}$	00/20/10	Revised sheets 1-7.			
(R-X)		Added sheets 8-12.			

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DEPARTMENT OF TRANSPORTATION	Fax: (303) 757-9820

roject Development Branch
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<b>TEMPORARY</b>
<b>EROSION CONTROL</b>

STANDARD PLAN NO.
N. O.O. 1

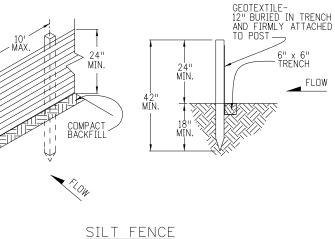
M-208-1

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Sheet No. 9 of 12

#### NOTES

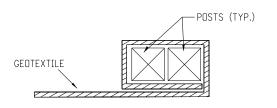
- 1. SILT FENCE SHALL HAVE A MAXIMUM DRAINAGE AREA OF ONE-QUARTER ACRE PER 100 FEET OF SILT FENCE LENGTH; MAXIMUM SLOPE LENGTH BEHIND BARRIER IS 100 FEET; MAXIMUM GRADIENT BEHIND THE BARRIER
- 2. SILT FENCE USED AT TOE OF SLOPE SHALL BE PLACED 5 TO 10 FEET BEYOND TOE OF SLOPE TO PROVIDE STORAGE CAPACITY.
- 3. SILT FENCE SHALL BE PLACED ON THE CONTOUR, WITH ENDS FLARED UP SLOPE.



GEDTEXTILE SHALL BE ATTACHED TO WOOD POSTS WITH THREE OR MORE STAPLES PER POST.

STAPLES SHALL BE 1/2"

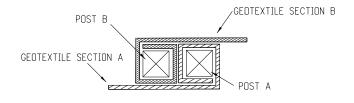
WOOD POST SHALL BE 1  $\frac{1}{2}$ " X 1  $\frac{1}{2}$ " NOMINAL.



**GEOTEXTILE** 

#### END SECTION DETAIL (PLAN VIEW)

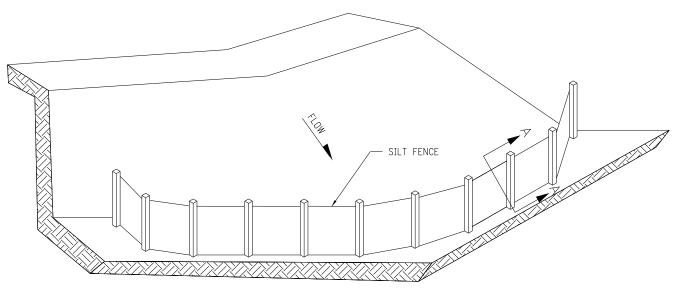
GEOTEXTILE SHALL BE FOLDED AROUND TWO POSTS ONE FULL TURN. SECURE GEOTEXTILE TO POST WITH THREE STAPLES MINIMUM.



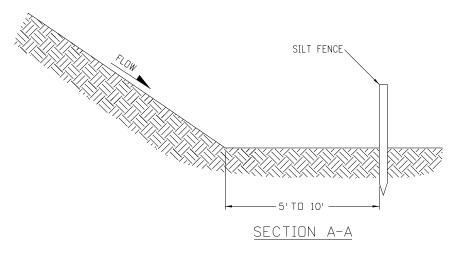
#### JOINING SECTION DETAIL (PLAN VIEW)

FOLD GEOTEXTILE AROUND EACH POST ONE FULL TURN. SECURE GEOTEXTILE TO POST WITH THREE STAPLES MINIMUM.

POSTS SHALL BE TIGHTLY ABUTTED WITH NO GAPS TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT.



#### ISOMETRIC VIEW



# SILT FENCE APPLICATION

TOE OF SLOPE PROTECTION

Computer File Information				Sheet Revisions
Creation Date: 06/08/10	Initials: DD		Date:	Comments
Last Modification Date: 07/29/11	Initials: LTA	(R-X)		Revised to meet new
Full Path: www.dot.state.co.us/DesignSupport/		(R-X)	08/26/10	water quality standards.
Drawing File Name: 20801010012.dgn		(R-X)		Revised sheets 1-7.
CAD Ver.: MicroStation V8 Scale: Not to Sc	ale Units: English	(R-X)		Added sheets 8-12.

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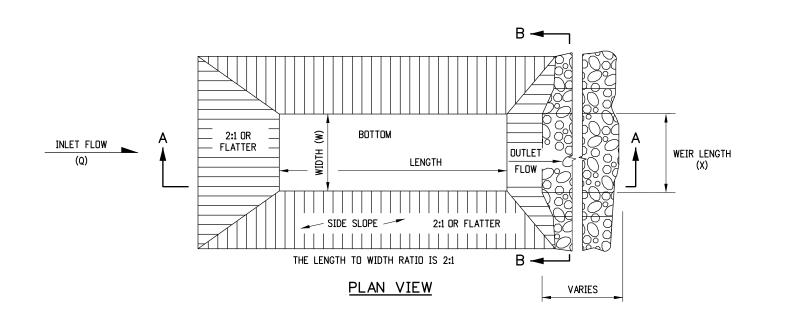
Project Development Branch

# **TEMPORARY EROSION CONTROL**

Issued By: Project Development Branch on July 04, 2006

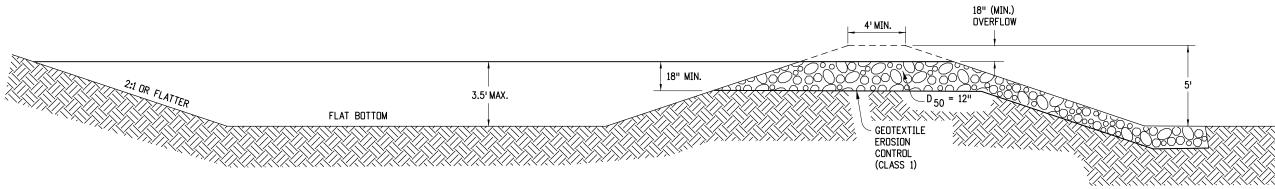
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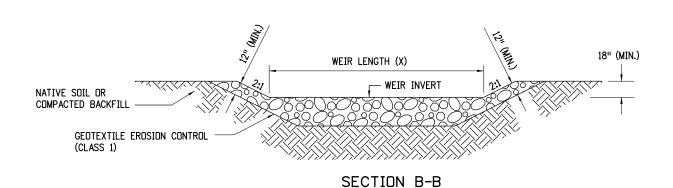


#### NOTES

- 1. THE MAXIMUM DRAINAGE AREA IS 5 ACRES.
- 2. THE MAXIMUM STRUCTURE LIFE IS 2 YEARS.
- 3. THE STORAGE AREA IS 1800 CUBIC FEET PER ACRE.
- 4. THE MAXIMUM EMBANKMENT HEIGHT SHALL BE 5 FT. MEASURED ON THE DOWNSTREAM SIDE.
- THE LENGTH/WIDTH RATIO MAY BE ADJUSTED TO MEET SITE CONDITIONS WHEN APPROVED BY THE ENGINEER.
- 6. WIDTH (W) OF SEDIMENT TRAP IS APPROXIMATELY EQUAL TO THE WEIR LENGTH (X).
- 7. SEDIMENT TRAP DESIGN SHALL BE APPROVED BY THE ENGINEER.



#### SECTION A-A



-		
	DRAINAGE AREA (ACRES)	WEIR LENGTH (FEET)
I	1	4
[	2	6
[	3	8
[	4	10
ſ	5	12

WEIR LENGTH TABLE

# SEDIMENT TRAP

Computer File Information		Sheet Revisions	
Creation Date: 06/08/10 Initials: DD		Date:	Comments
Last Modification Date: 07/29/11 Initials: LTA	$\mathbb{R}$ -X		Revised to meet new
Full Path: www.dot.state.co.us/DesignSupport/		R-X) 08/26/10	water quality standards.
Drawing File Name: 20801011012.dgn			Revised sheets 1-7.
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)		Added sheets 8-12.

# Colorado Department of Transportation



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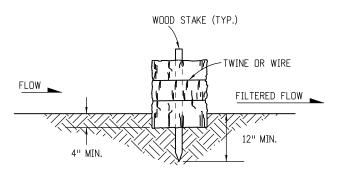
TEMPORARY EROSION CONTROL STANDARD PLAN NO.

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# WOOD STAKE (TYP.) STEP 2. PLACE AND STAKE THE EROSION BALES. WEDGE LOOSE CERTIFIED - WEED FREE STRAW BETWEEN EROSION BALES STEP 1. EXCAVATE THE TRENCH.



EROSION BALE TRENCHING AND STAKING

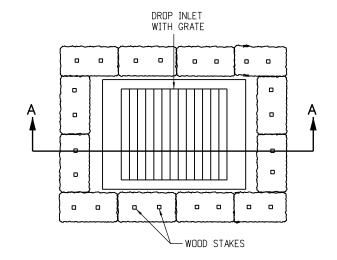
# END EROSION BALES TO BE KEYED INTO FILL SLOPE EROSION BALES TOE OF FILL— 0 0 0 0 0 0 0 0 PIPE END SECTION FLOW ,WOOD STAKE (TYP.) 00 00 00 PLAN VIEW

TWINE OR WIRE

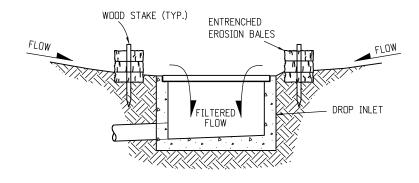
EROSION BALE CULVERT INLET PROTECTION

#### NOTES

- 1. STAKES SHALL BE WOOD AND SHALL BE 2" X 2" NOMINAL.
- 2. EROSION BALES SHALL BE 18" X 18" X 36".
- 3. EROSION BALES SHALL BE ENTRENCHED 4 IN. MINIMUM INTO THE SOIL, THIGHTLY ABUTTED WITH NO GAPS, STAKED, AND BACKFILLED AROUND THE ENTIRE OUTSIDE PERIMETER.







SECTION A-A EROSION BALE FILTER AT DROP INLET

# **EROSION BALE APPLICATIONS**

Computer File Information			Sheet Revisions
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**TEMPORARY EROSION CONTROL**  STANDARD PLAN NO.

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