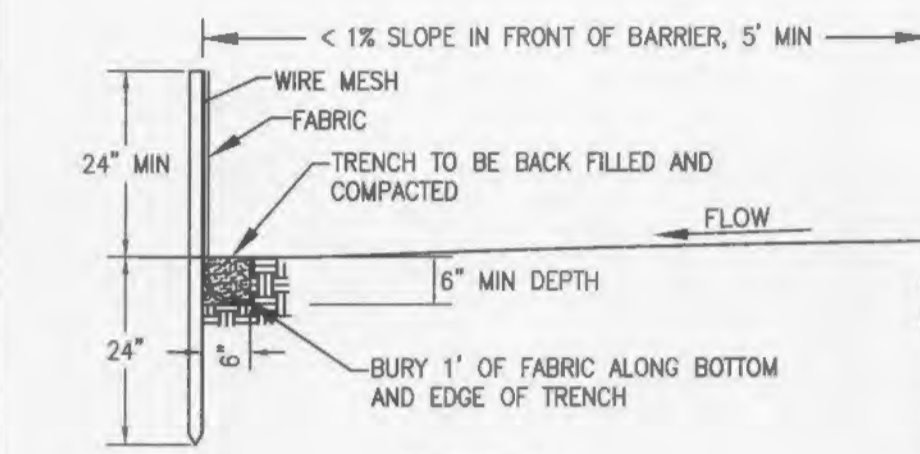
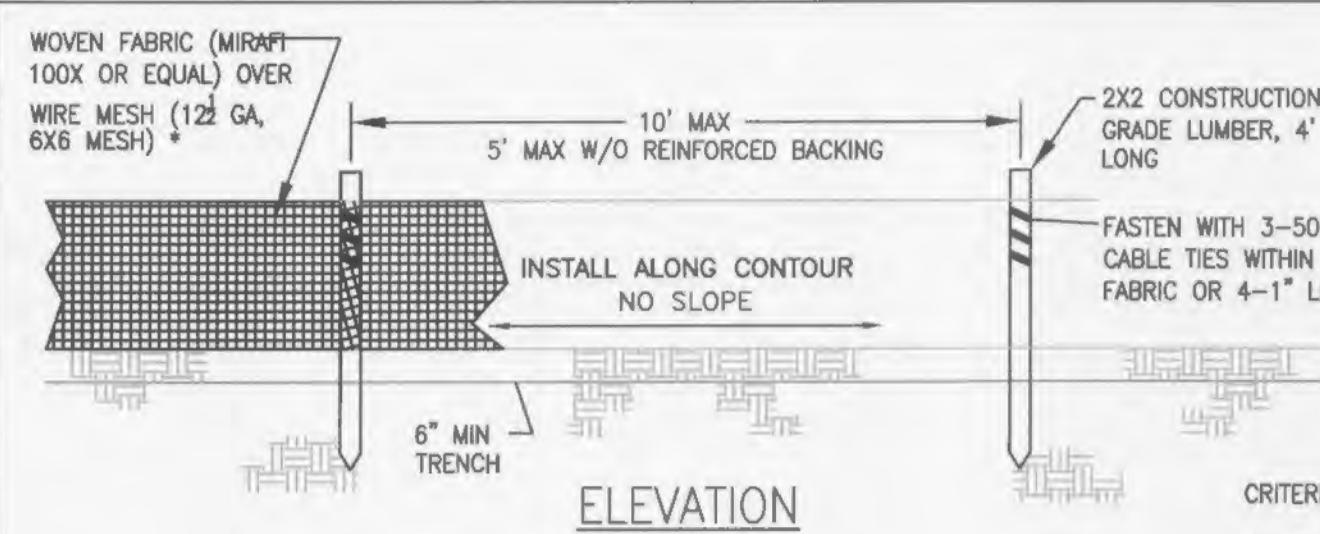


- DESIGN CRITERIA**
1. SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  2. STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  3. REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
  4. TERRACING INCLUDES LOGS, WATTLES & FILTER SOCKS.

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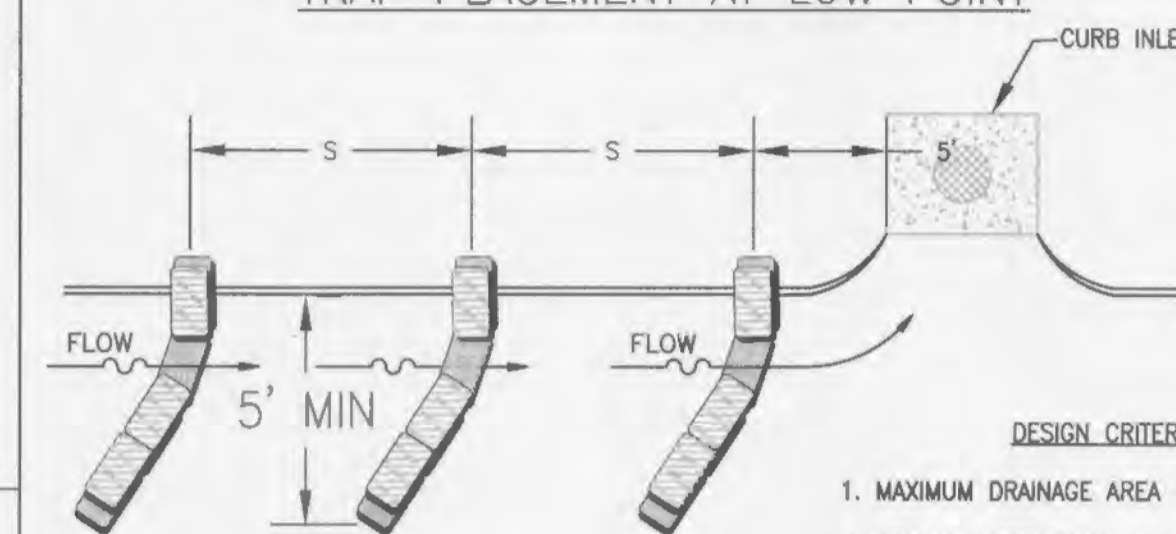
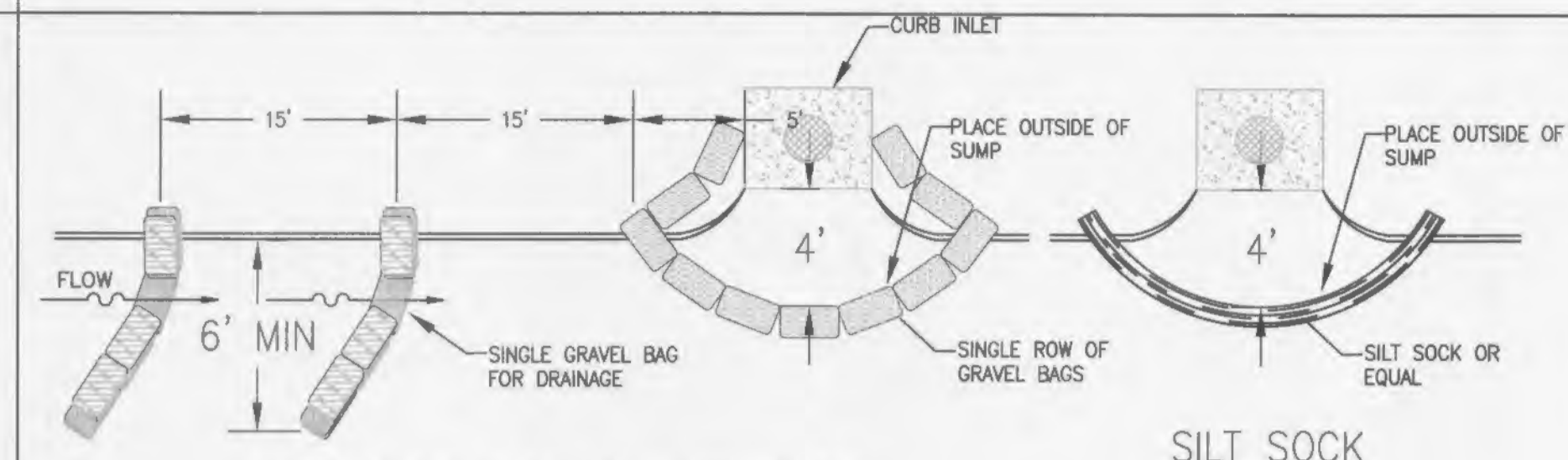
**SPACING CHART FOR ESC DEVICES**



- CRITERIA**
1. SILT FENCE SHALL BE 24 INCHES HIGH.
  2. SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
  3. GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
  4. WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.

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**SILT FENCE INSTALLATION SHEET FLOW (ONLY)**



**SILT SOCK (ALTERNATIVE)**

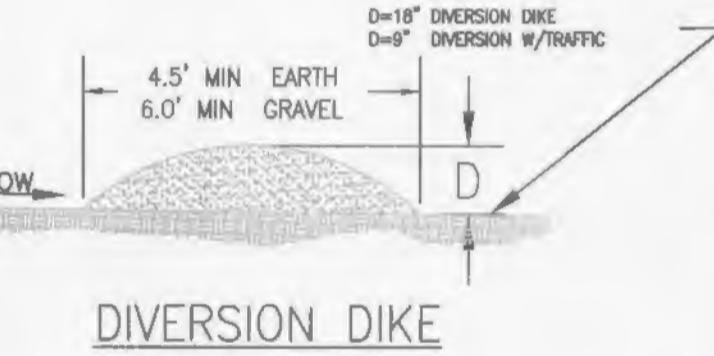
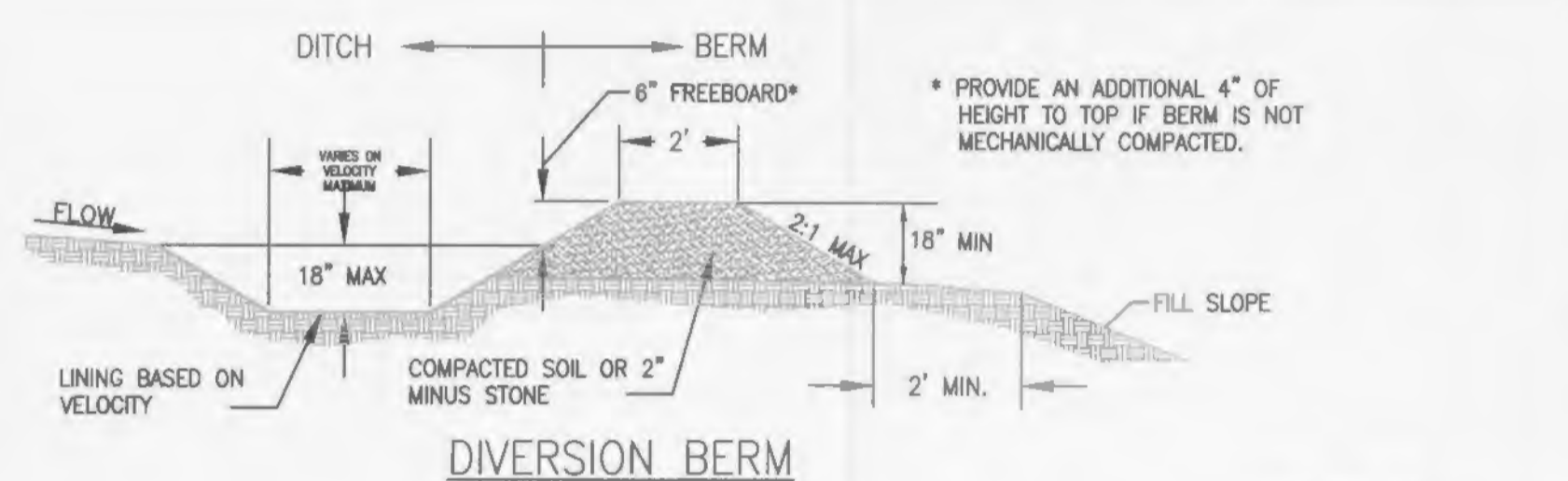
SPACING OF TRAPS

OUTER SLOPE	S
LOW PT	15'
1%	20'
2%	15'
3% MAX.	10'

- DESIGN CRITERIA**
1. MAXIMUM DRAINAGE AREA - 1 ACRE.
  2. PEAK RUNOFF SHALL BE ≤2 CFS BASED ON THE 6-MONTH STORM.
  3. STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

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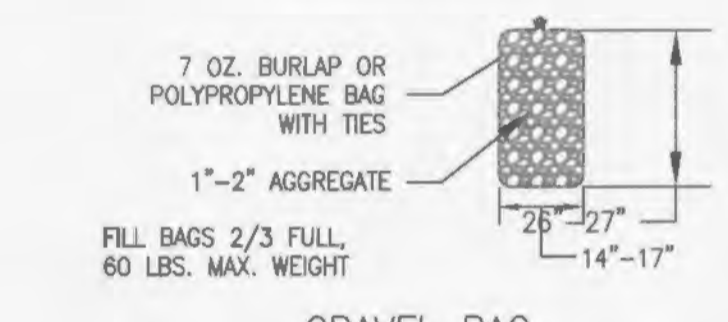
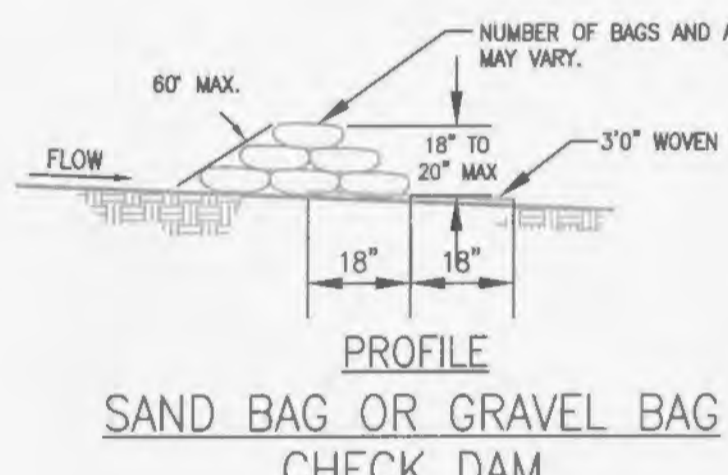
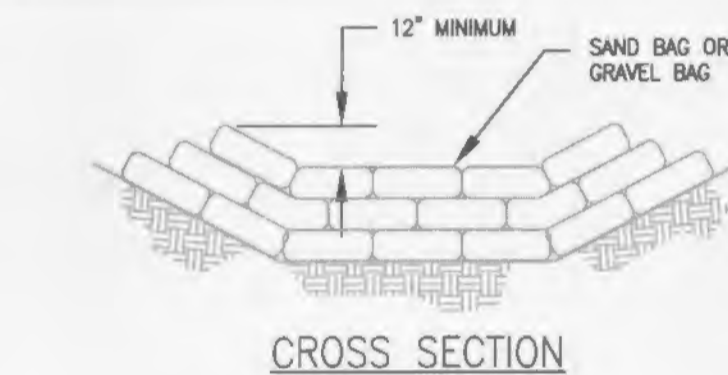
**CURB INLET PROTECTION**



- DESIGN CRITERIA**
1. DIVERSIONS SHALL BE USED FOR DRAINAGE AREAS ≤ 3 ACRES.
  2. DIVERSION CHANNELS SHALL BE DESIGNED TO CONVEY THE 6-MO STORM AT NON-EROSIVE VELOCITIES.
  3. CRITICAL LOCATIONS SHALL BE DESIGNED FOR THE 15YR / 20MIN. STORM.
  4. MAXIMUM CHANNEL SLOPE OF 3% WITHOUT CHECK DAMS.
  5. SWALE SEDIMENT TRAPS ARE TO BE USED IN HIGHLY ERODIBLE AREAS.
  6. CHANNELS SHALL BE PROTECTED USING APPROPRIATE CHANNEL LINERS.
  7. CHANNEL OUTLETS MUST BE STABILIZED.
  8. STORM SEWERS MAY BE USED IN LIEU OF OPEN CHANNELS.

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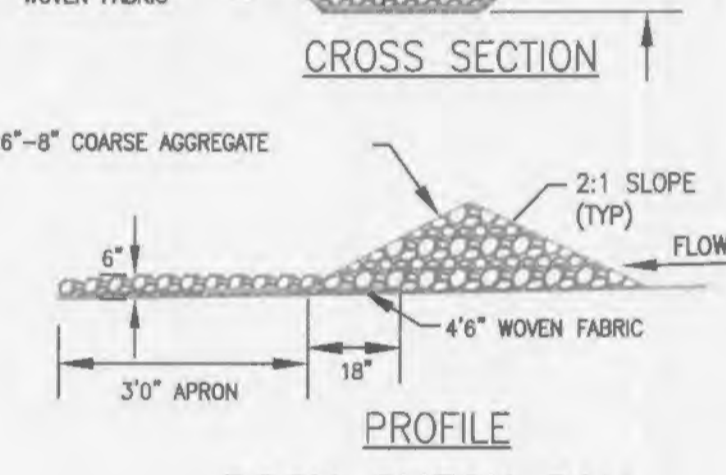
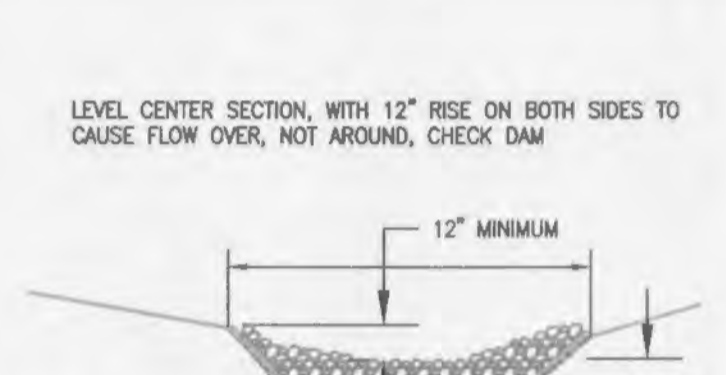
**DIVERSION BERMS + DIKES**



- NOTE:**
1. CHECK DAMS MAY BE CONSTRUCTED OF SEVERAL ESC CHECK DAM PRODUCTS.
  2. SEE TABLE 60-12 AND ESC 1 FOR CHECK DAM SPACING.

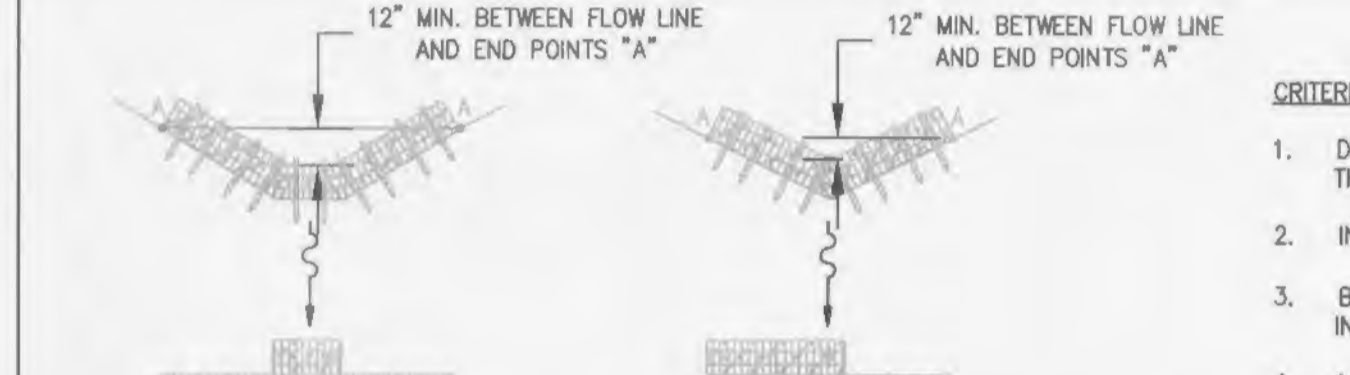
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**CHECK DAMS**



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**ROCK CHECK DAM**



- CRITERIA FOR LOW CONCENTRATED FLOWS**
1. DRAINAGE AREAS SHALL BE LESS THAN 1 ACRE.
  2. INSTALL TWO STAKES PER BALE.
  3. BALES WILL BE TRENCHED 4" DEEP INTO EARTH.
  4. MAXIMUM CHANNEL SLOPE OF 3%.
  5. SEDIMENTATION TRAPS TO BE USED IN HIGHLY ERODIBLE AREAS.

**CHECK DAM SPACING**

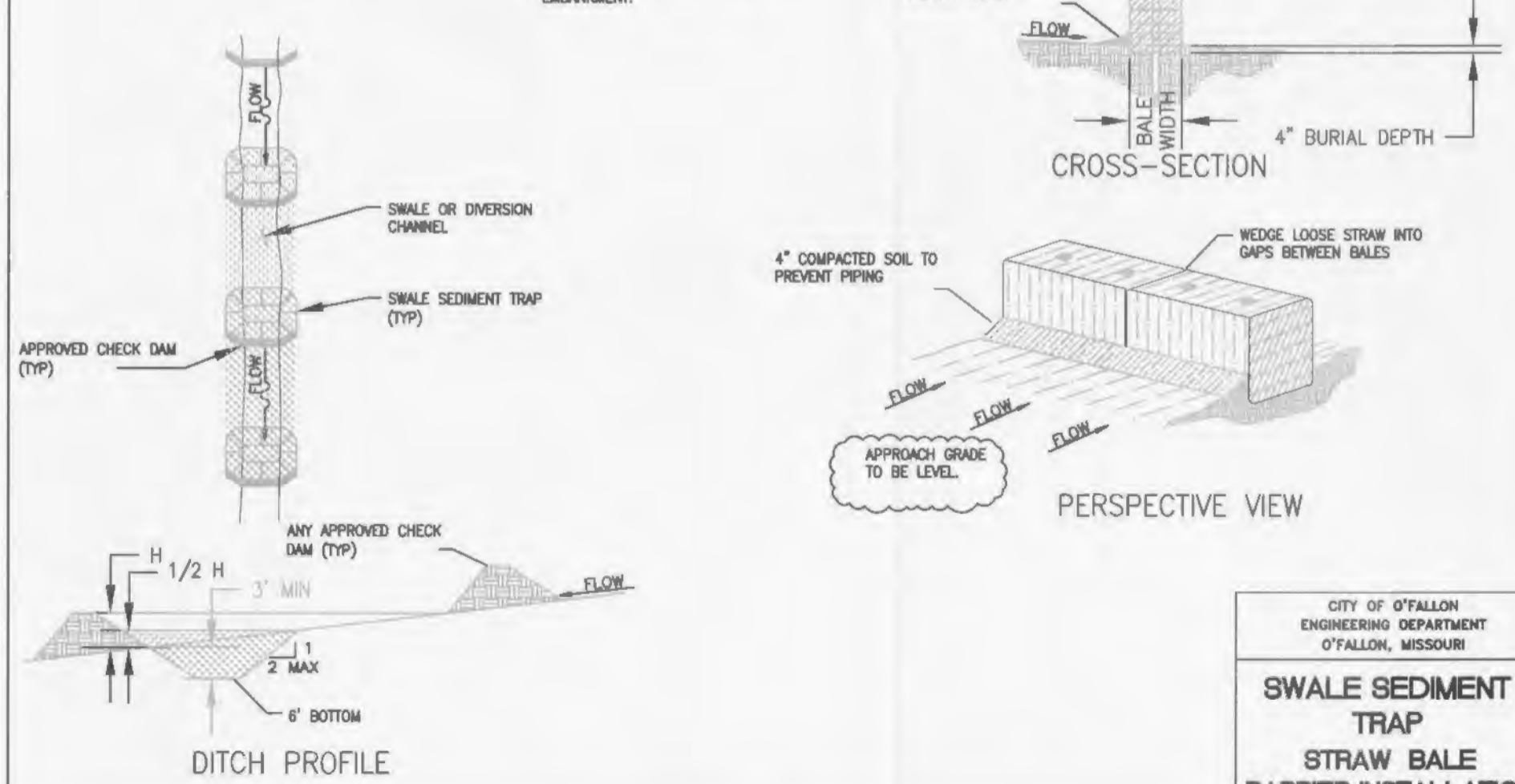
Ditch	Maximum Spacing
3%	50%
2%	75%

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**STRAW BALE CHECK DAM**

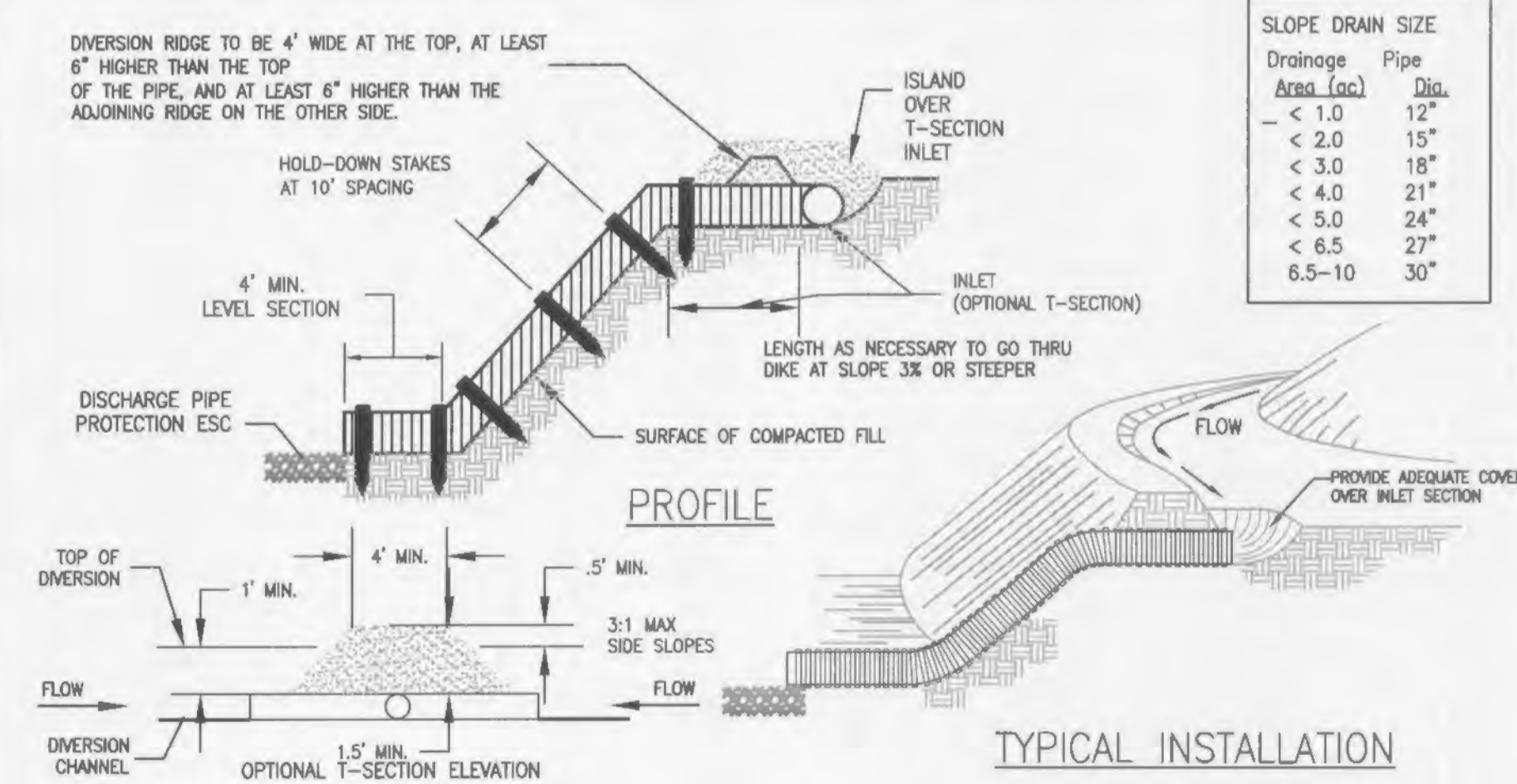


- CRITERIA**
1. EXCAVATE TRENCH THE WIDTH OF THE BALE AT LEAST 4 INCHES DEEP AND LONG ENOUGH THAT THE END BALES ARE SUBMERGED UPSLOPE.
  2. REFER TO STRAW BALE CHECK DAM DETAIL FOR SPACING AND STRAW BALE USES AS DITCH CHECKS.
  3. UPSLOPE FACE OF BALE MUST BE AT LEAST 5' FROM A DISTURBED EMBANKMENT.



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**SWALE SEDIMENT TRAP STRAW BALE BARRIER INSTALLATION**



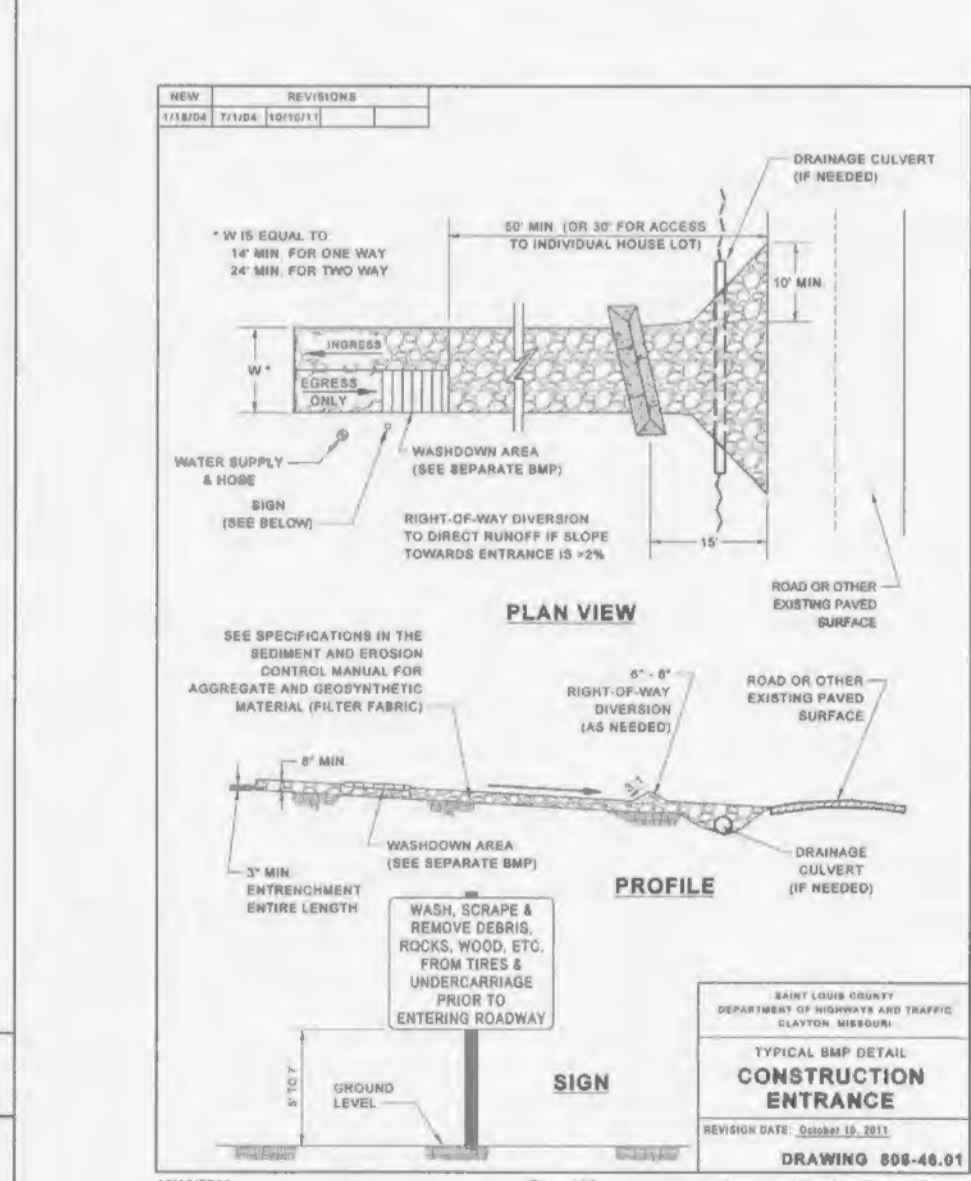
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**TEMPORARY SLOPE DRAIN**

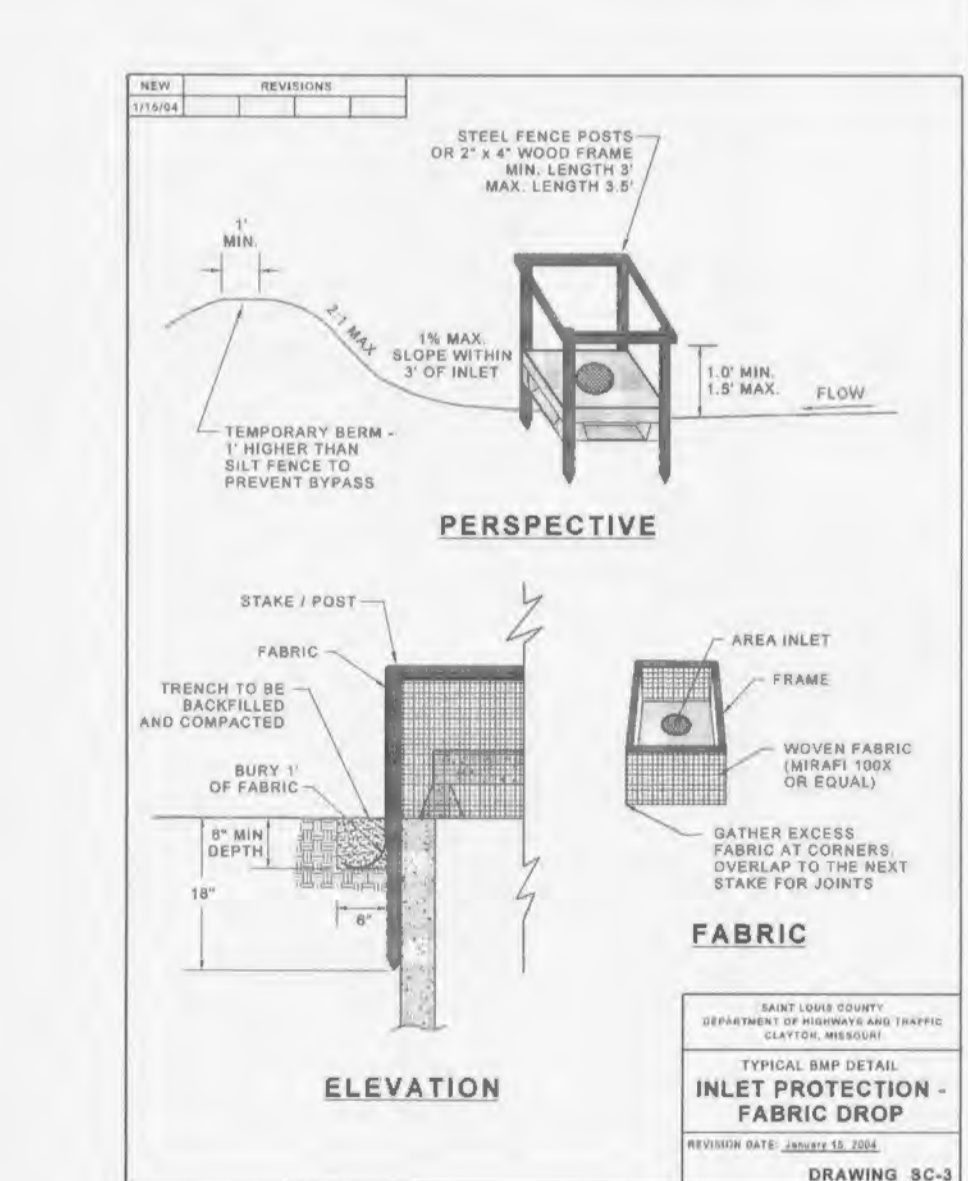
- NOTE:**
1. PIPE CAN BE CMP, PVC, FLEXIBLE TUBING, OR SIMILAR.
  2. THIS METHOD MUST BE USED IN CONJUNCTION WITH OTHER ESC DEVICES. THIS IS NOT A STAND ALONE CONTROL DEVICE.

**SLOPE DRAIN SIZE**

Drainage Area (ac)	Pipe Dia.
< 1.0	12"
< 2.0	15"
< 3.0	18"
< 4.0	21"
< 5.0	24"
< 6.5	27"
6.5-10	30"



**2 CONSTRUCTION ENTRANCE DETAIL**  
SCALE: N.T.S. REF. DWG.



**1 INLET PROTECTION DETAIL**  
SCALE: N.T.S. REF. DWG.

USER: Taylor, Stuart, TAB: DETAILS TO DATE: Mon, 22, 2011, 2:23:16 PM Drawing: S:\Users\stuart@ofo.com\CSO-DWG\PHASE2\CD\_PPH2-DETAILS.dwg

**REVISIONS**

NO.	DATE	REVISION DESCRIPTION
1	3/28/14	CITY COMMENTS
2	3/28/14	CITY COMMENTS
3	3/28/14	CITY, DISC. WATER & FIRE COMMENTS

DEVELOPER/OWNER:  
**FULTE GROUP**  
1707 CHESTERFIELD AIRPORT RD. SITE 120  
CHESTERFIELD, MO 63005  
PHONE: (636) 537-7129

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DATE: 01/07/2013

CIVIL ENGINEER  
JOHN F. HARSHBARGER  
#001065  
#29716  
#5122110

REGISTERED PROFESSIONAL ENGINEER  
STATE OF MISSOURI

**PRESTON WOODS**  
PHASE 7  
IMPROVEMENT PLANS  
PRESTON WOODS LANE  
O'FALLON, MO 63366

**SWPP DETAILS**

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636.978.7506 (off)

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CIVIL ENGINEERING / SURVEYING / PLANNING / LANDSCAPE ARCHITECTURE  
Cole & Associates, Inc.

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DRAWN BY: MTS  
CHECKED BY: JFH  
DRAWING SCALE: -  
DATE: 01/07/2013  
Job Number: 13-0109  
Sheet Number: C9.10