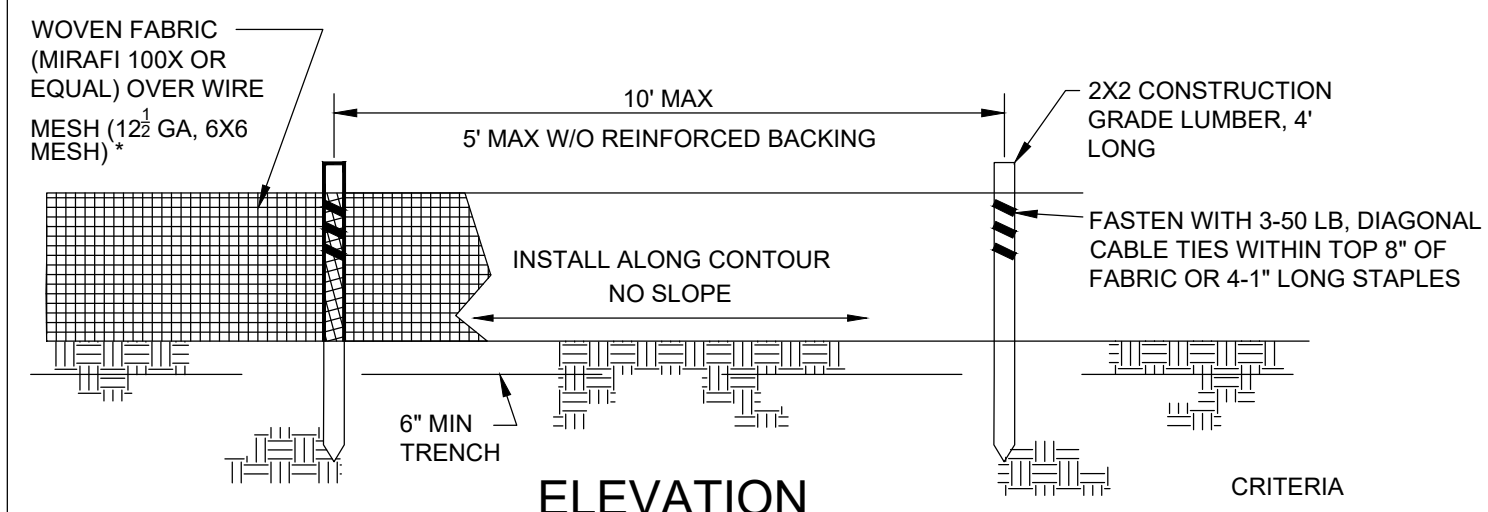


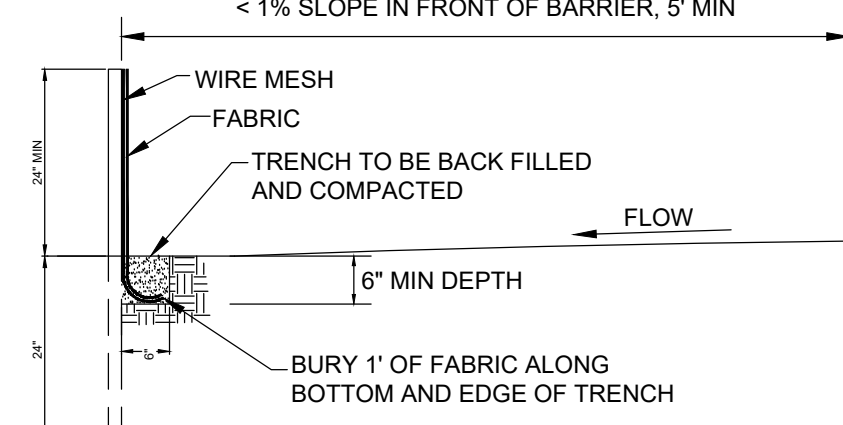
- DESIGN CRITERIA**
1. SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  2. STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  3. REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
  4. TERRACING INCLUDES LOGS, WATTLES &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



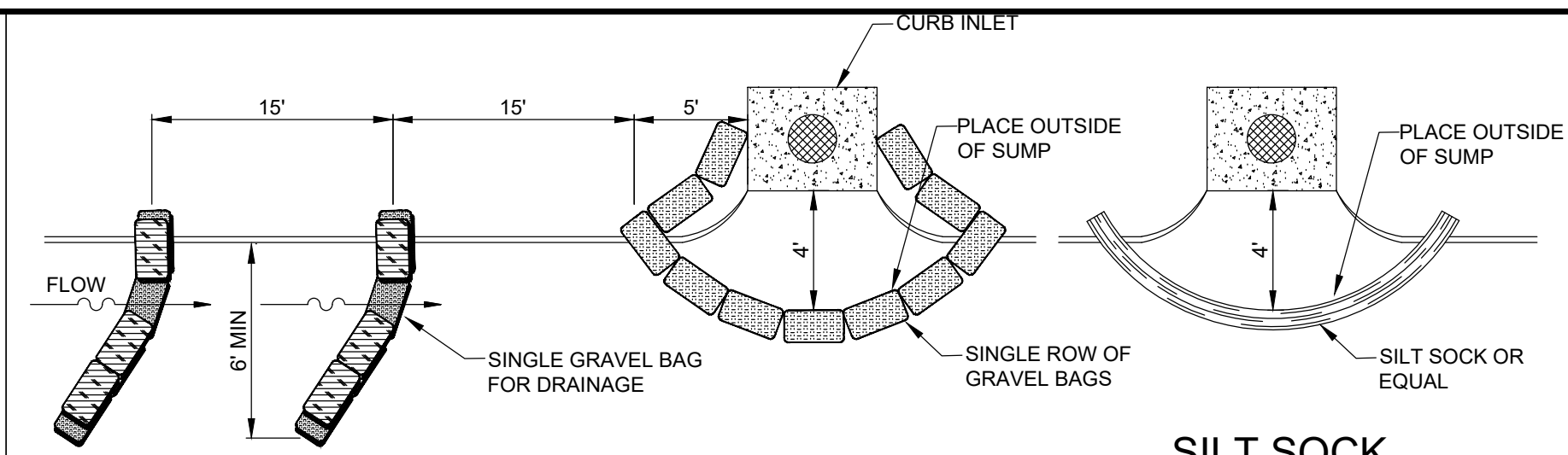
**SECTION**

NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQ'D.

**JOINING SECTIONS OF SILT FENCE**

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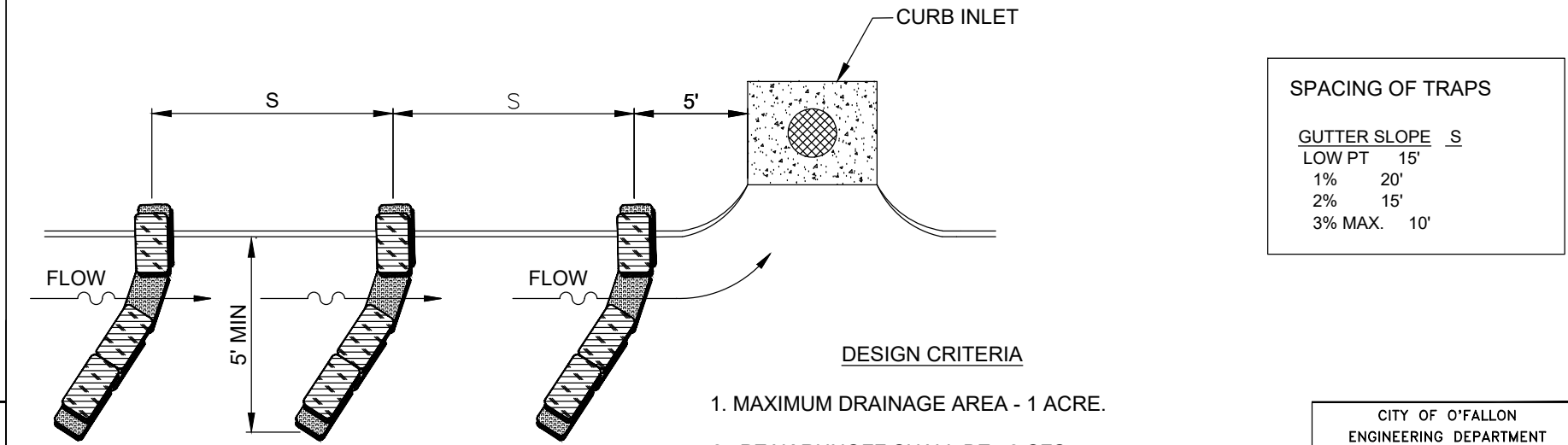
**SILT FENCE INSTALLATION  
SHEET FLOW (ONLY)**



**TRAP PLACEMENT AT LOW POINT**

**SILT SOCK  
(ALTERNATIVE)**

SPACING OF TRAPS	
GUTTER SLOPE	S
LOW PT	15'
1%	20'
2%	15'
3% MAX.	10'



**TRAP PLACEMENT AT INTERMEDIATE INLET**

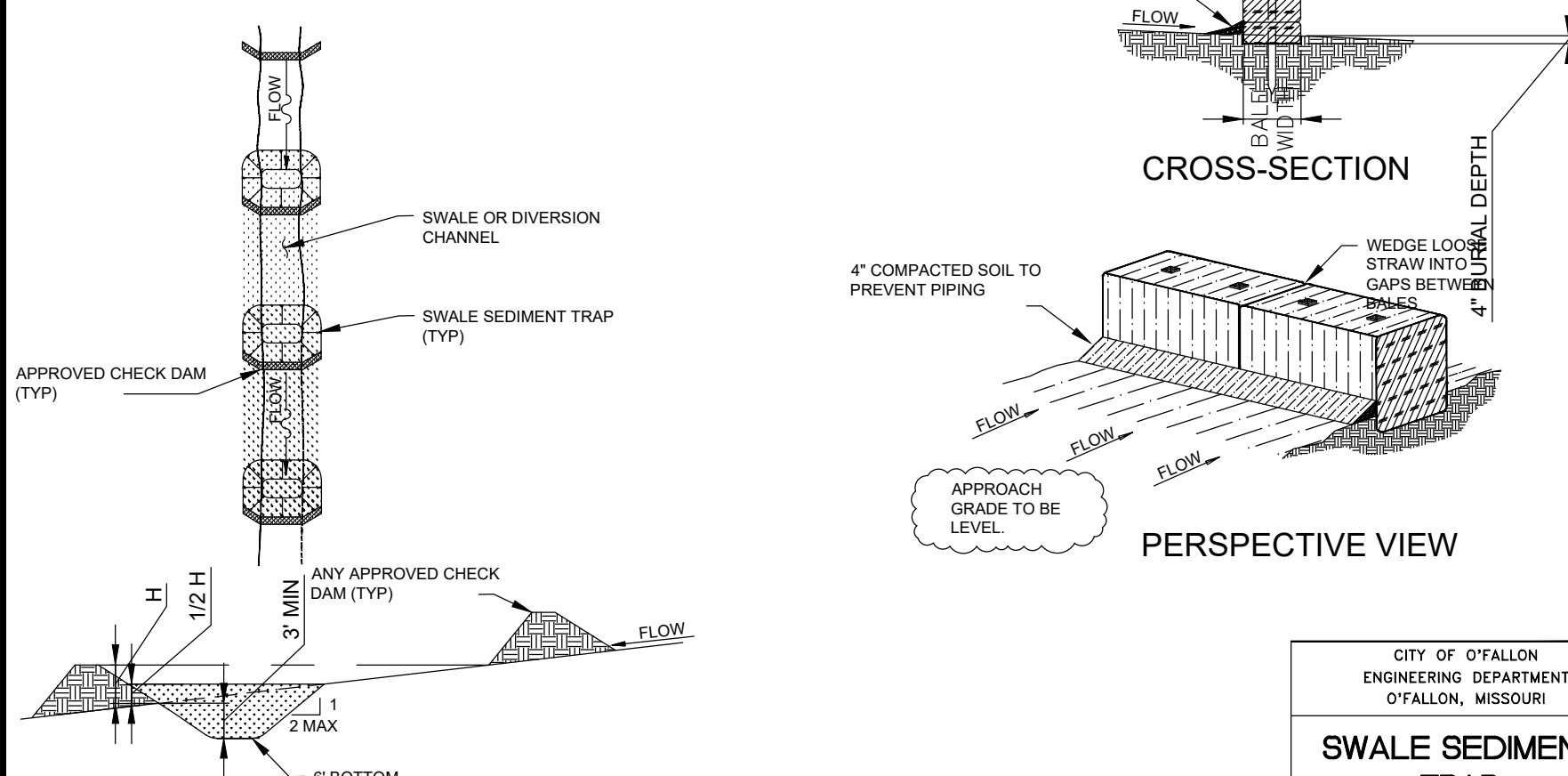
- DESIGN CRITERIA**
1. MAXIMUM DRAINAGE AREA - 1 ACRE.
  2. PEAK RUNOFF SHALL BE  $\leq 2$  CFS BASED ON THE 6-MONTH STORM.
  3. STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

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**CURB INLET  
PROTECTION**

**CRITERIA**

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

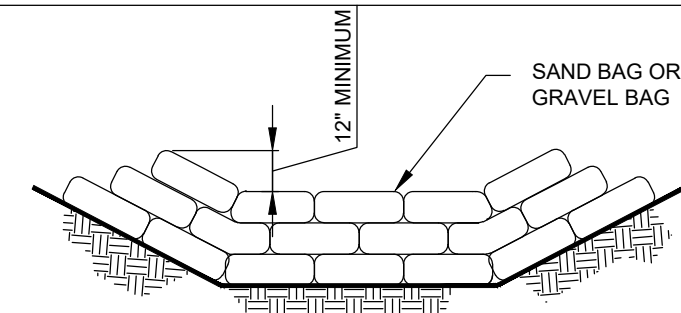


**CROSS-SECTION**

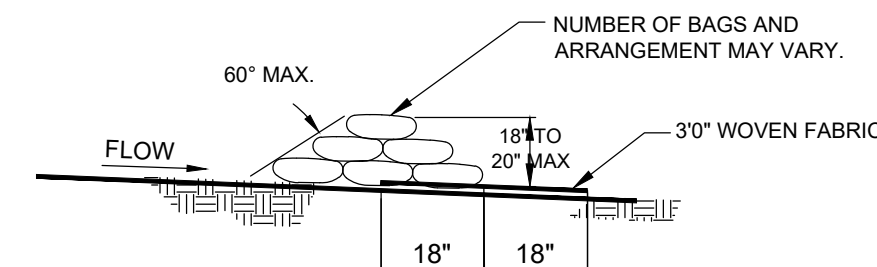
**PERSPECTIVE VIEW**

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ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI

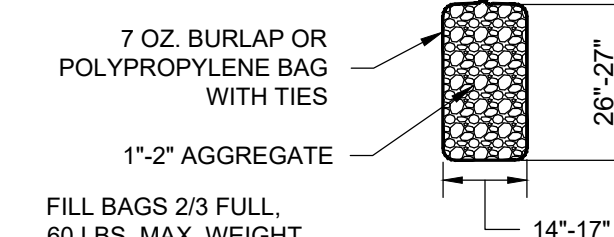
**SWALE SEDIMENT TRAP  
STRAW BALE  
BARRIER INSTALLATION**



**CROSS SECTION**



**PROFILE  
SAND BAG OR GRAVEL BAG  
CHECK DAM**

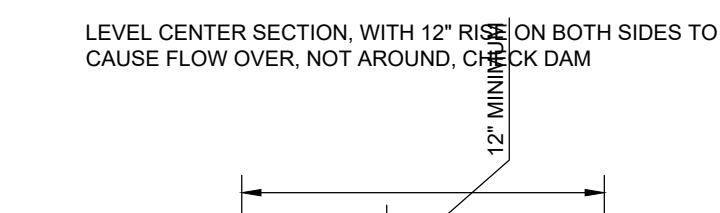


**GRAVEL BAG**

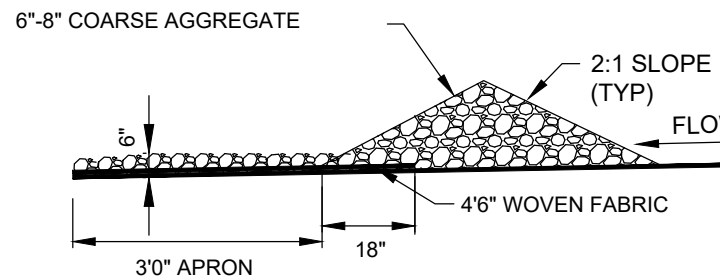
- NOTE:**
1. CHECK DAMS MAY BE CONSTRUCTED OF SEVERAL ESC CHECK DAM PRODUCTS.
  2. SEE TABLE 60-12 AND ESC 1 FOR CHECK DAM SPACING.

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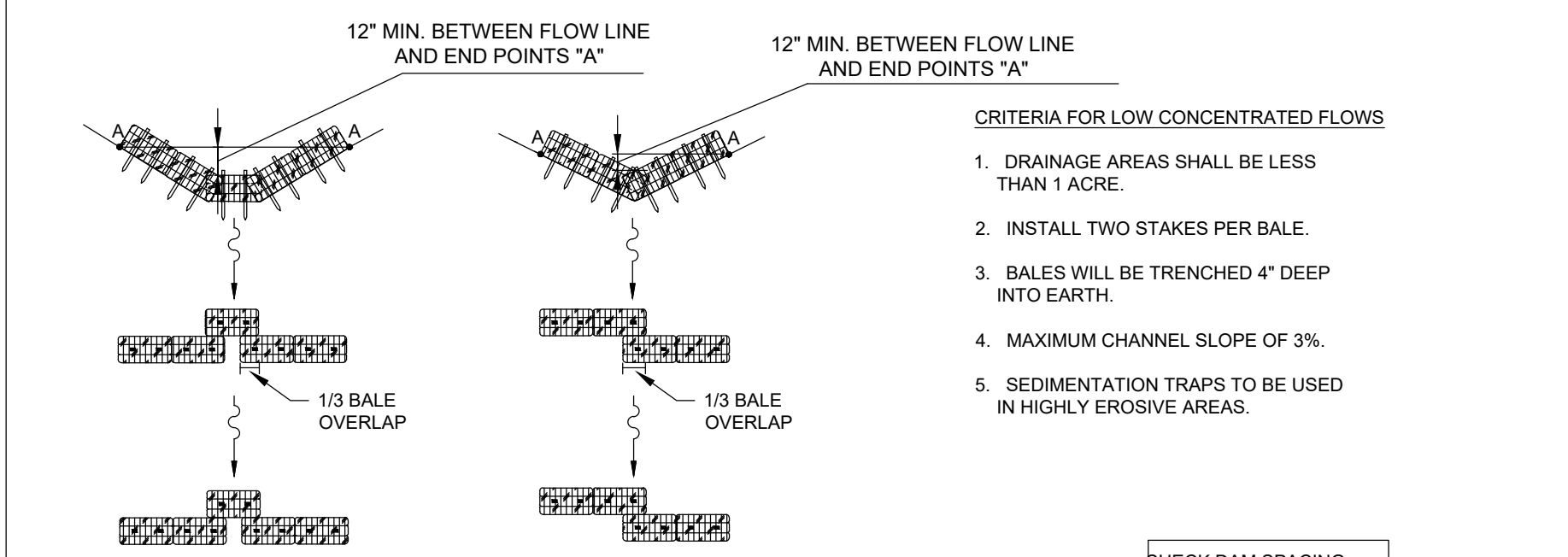
**CHECK DAMS**



**CROSS SECTION**



**PROFILE  
ROCK CHECK DAM**

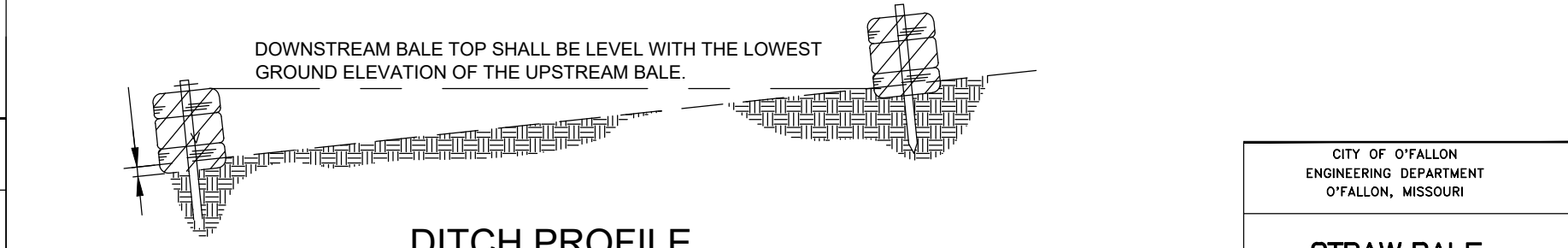


- CRITERIA FOR LOW CONCENTRATED FLOWS**
1. DRAINAGE AREAS SHALL BE LESS THAN 1 ACRE.
  2. INSTALL TWO STAKES PER BALE.
  3. BALES WILL BE TRENCHED 4\"/>

CHECK DAM SPACING	
Ditch Maximum Slope	Spacing
3%	50'
2%	75'

**TRAPEZOIDAL DITCH**

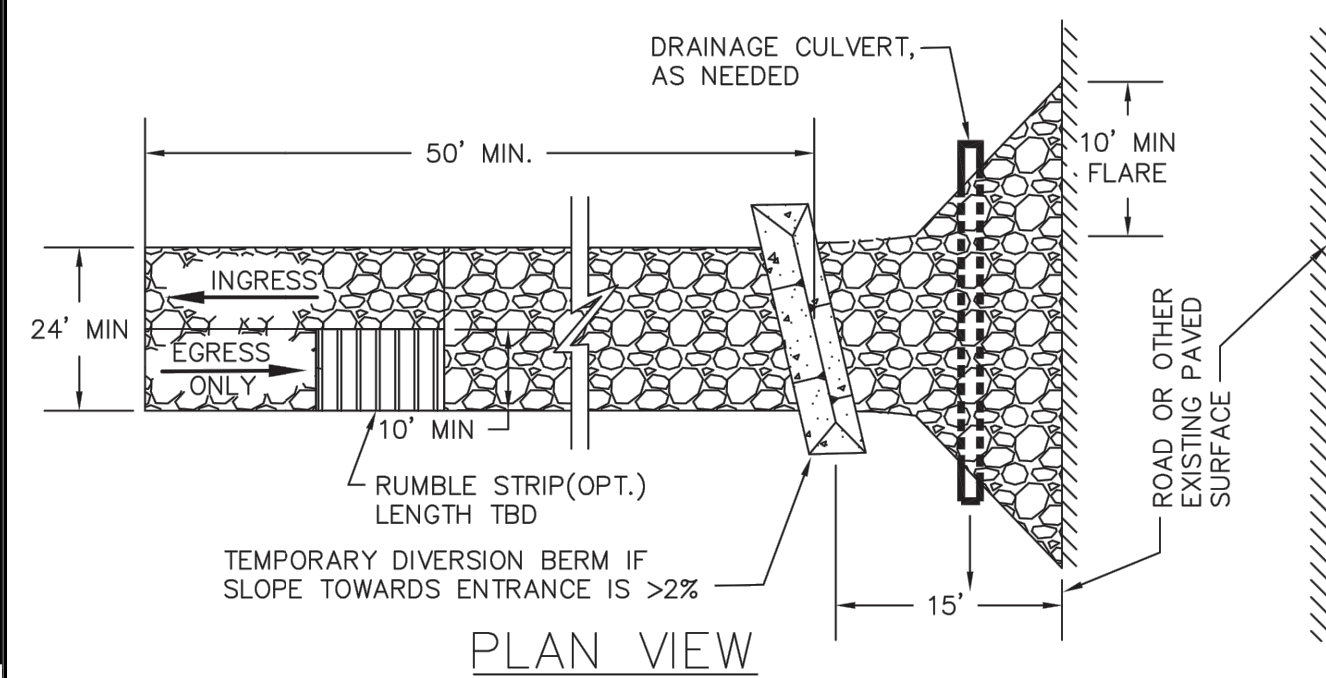
**V-DITCH**



**DITCH PROFILE**

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O'FALLON, MISSOURI

**STRAW BALE  
CHECK DAM**



**PLAN VIEW**

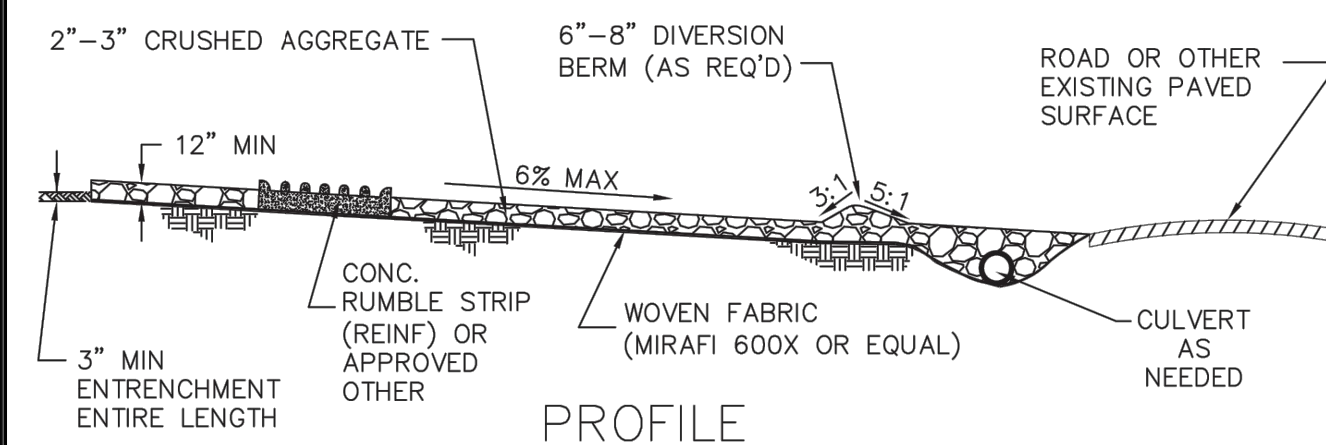
NOTE:  
A SPECIAL USE PERMIT IS REQ'D FOR THE ENTRANCE.



**RUMBLE STRIP  
(OPTIONAL)**

**DESIGN NOTES**

1. DIVERT ALL RUNOFF TO A SEDIMENTATION CONTROL DEVICE.
2. PROVIDE WATER SUPPLY FOR WASHDOWN.



**PROFILE**

**St. Charles County  
Erosion & Sediment Controls  
Standard Drawings**

**CONSTRUCTION  
TRAFFIC WASH-OFF  
PAD**

DATE: **APRIL 2008** DRAWING: **ESC-4**



10/17/18