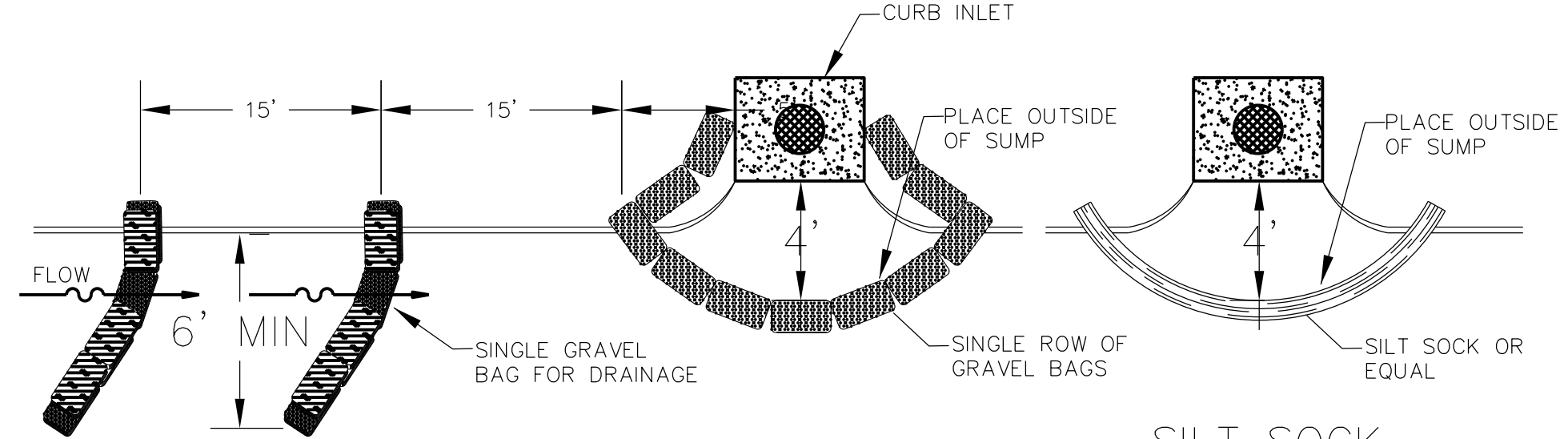


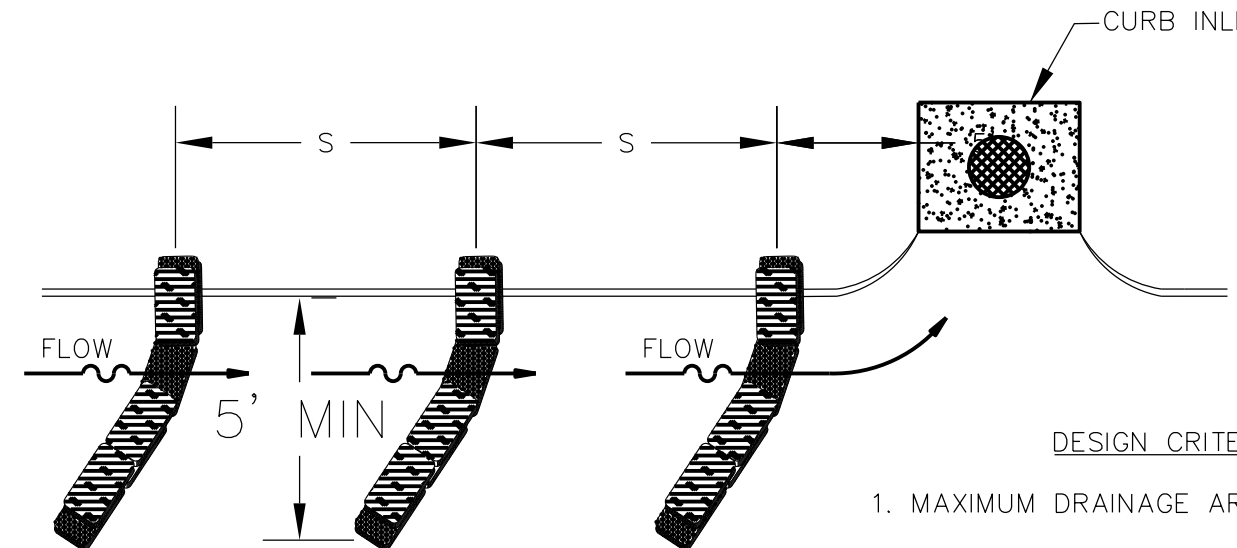
- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
  - TERRACING INCLUDES LOGS, WATTLES & FILTER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

CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI

SPACING CHART  
FOR ESC DEVICES



TRAP PLACEMENT AT LOW POINT



TRAP PLACEMENT AT INTERMEDIATE INLET

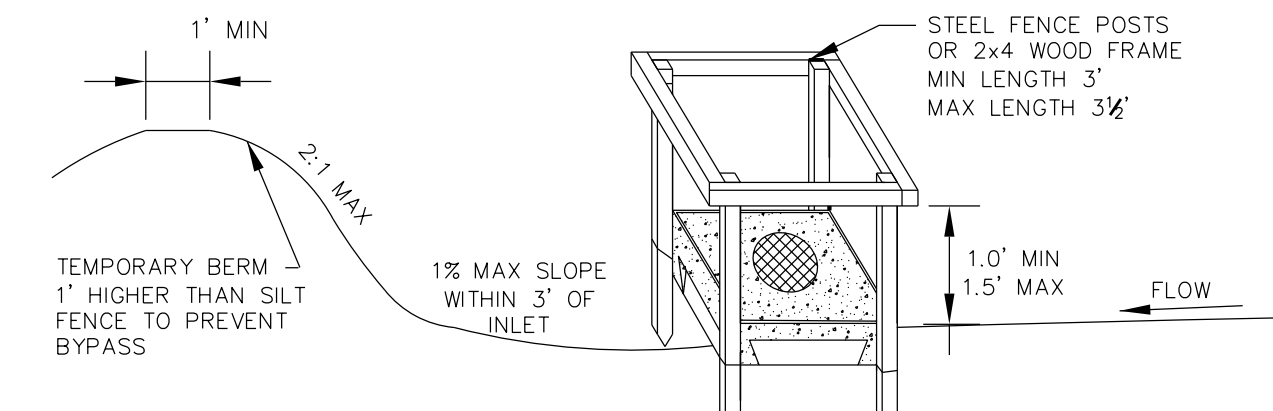
- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
  - PEAK RUNOFF SHALL BE  $\leq 2$  CFS BASED ON THE 6-MONTH STORM.
  - STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

**SPACING OF TRAPS**

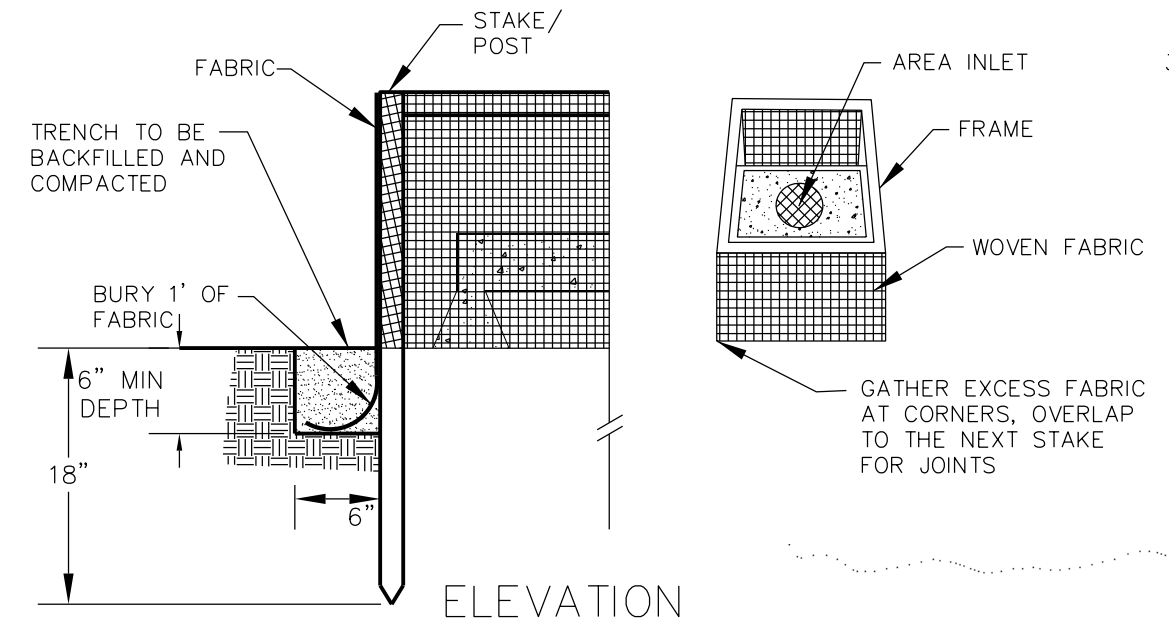
GUTTER SLOPE	S
LOW PT	15'
1%	20'
2%	15'
3% MAX.	10'

CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI

CURB INLET  
PROTECTION



PERSPECTIVE



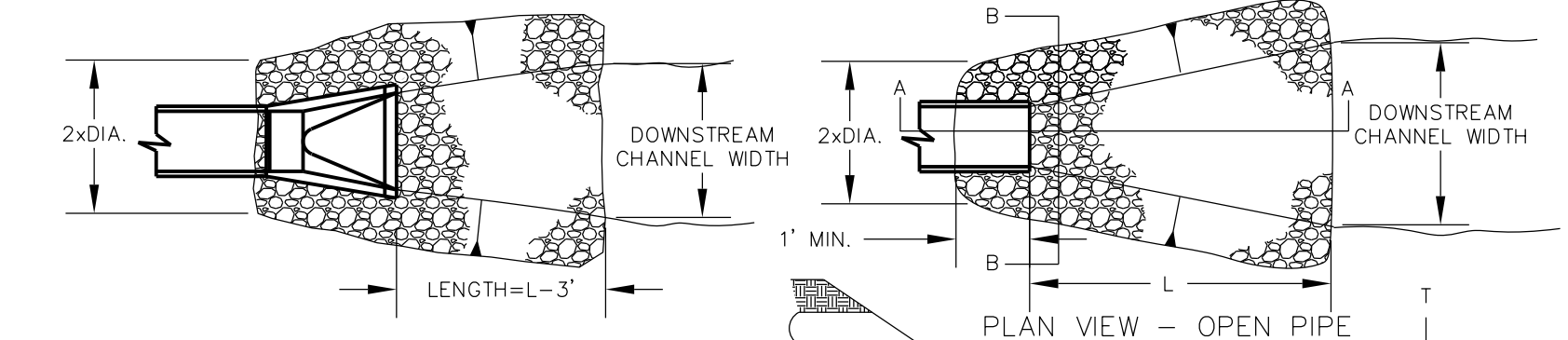
ELEVATION

- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
  - PEAK RUNOFF SHALL NOT EXCEED 2 CFS BASED ON A 6-MONTH STORM EVENT.
  - OTHER SEDIMENT PROTECTION PRODUCTS MAY BE USED, SUCH AS FIBR FENCE™.

St. Charles County  
Erosion & Sediment Controls  
Standard Drawings

**AREA INLET  
PROTECTION  
FABRIC DROP**

DATE: MARCH 2008 DRAWING: ESC-14



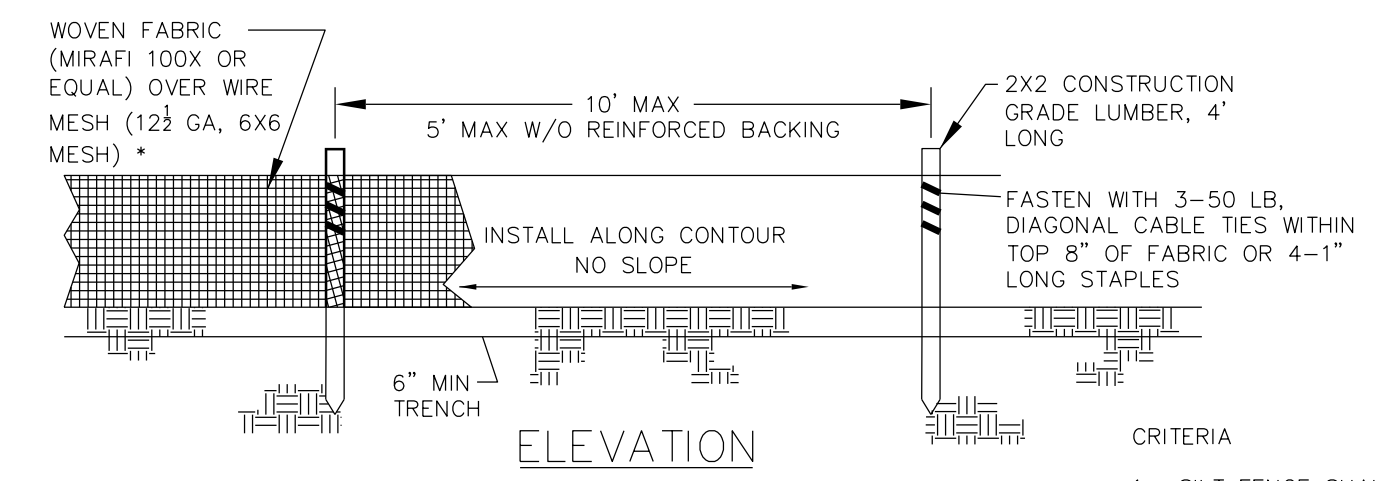
**RIPRAP SIZE & APRON DIMENSION**

PIPE SIZE	VELOCITY < 5 FPS				VELOCITY < 10 FPS				
	ROCK SIZE	APRON DIM	ROCK SIZE	APRON DIM	ROCK SIZE	APRON DIM	ROCK SIZE	APRON DIM	
(inch)	(inch)	(inch)	(ft)	(inch)	(inch)	(inch)	(ft)	(inch)	(ft)
12	5	9	15	12	5	9	15	16	
15	5	9	15	14	5	9	15	18	
18-24	5	9	15	16	9	14	24	20	
27-30	5	9	15	18	9	14	24	22	
36-42	9	15	24	22	12	18	27	26	
48-54	9	15	24	26	12	18	27	30	
60-66	12	18	27	34	15	24	30	38	
72-84	15	24	30	42	15	24	30	46	
96	18	27	30	50	18	27	30	54	

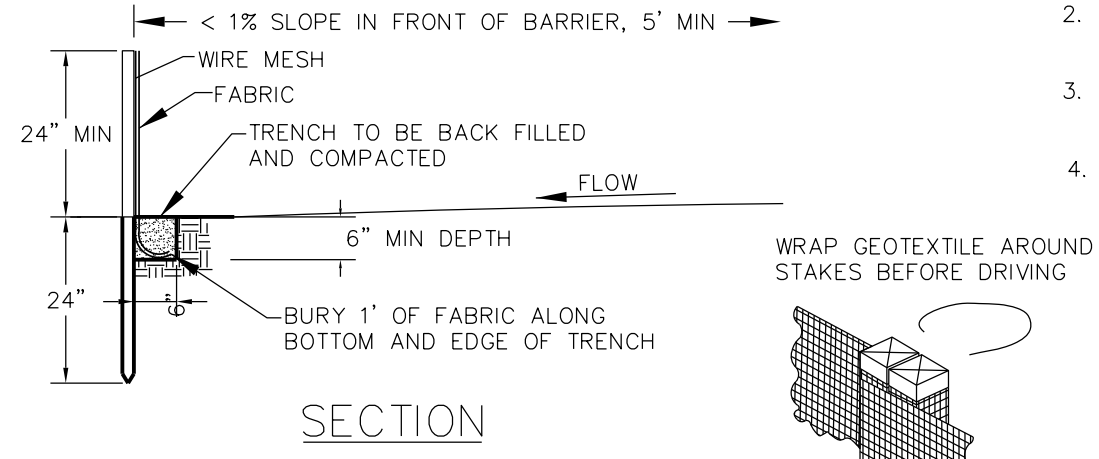
- DESIGN CRITERIA**
- FROUDE NUMBER MUST BE  $\leq 2.50$ .
  - USE 3 TIMES PIPE DIAMETER FOR DOWNSTREAM CHANNEL WIDTH IF THERE IS NO DEFINED CHANNEL.
  - BANK PROTECTION HEIGHT TO BE 2/3 TIMES PIPE DIAMETER.
  - ROCK SLOPES SHALL BE NO STEEPER THAN 3:1.

CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI

TEMPORARY OUTLET  
PIPE DISCHARGE  
PROTECTION



ELEVATION



SECTION

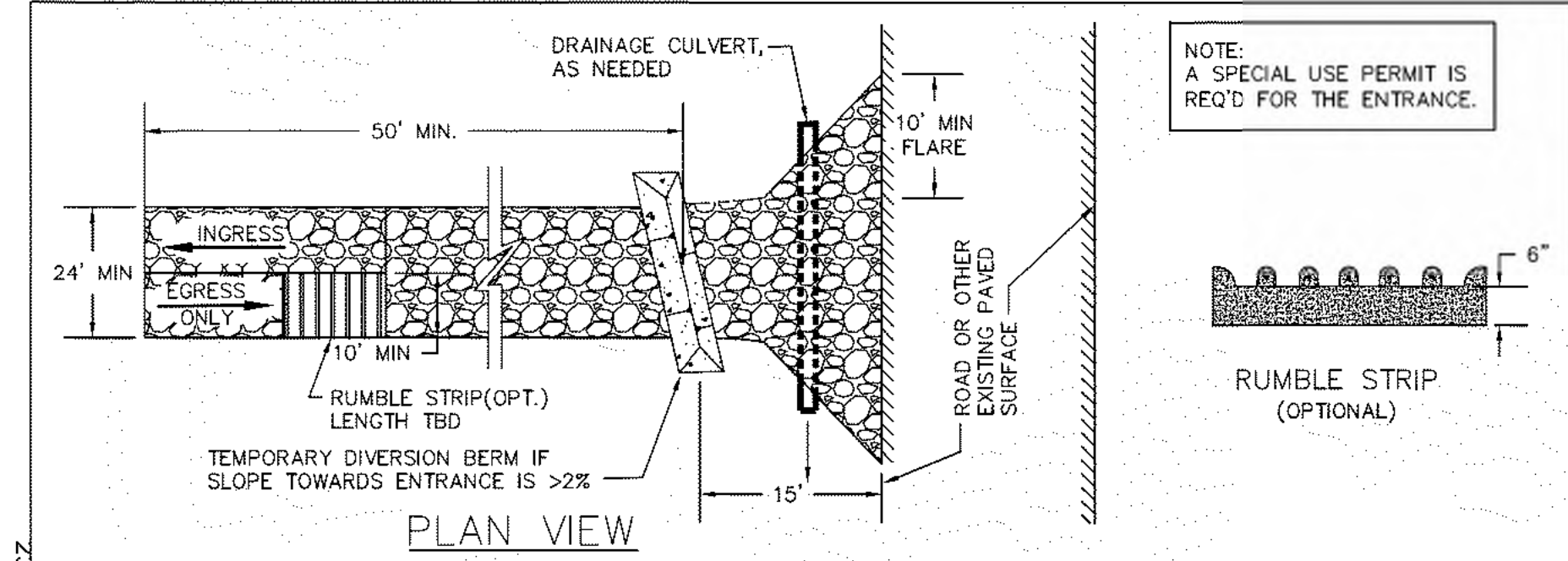
NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQ'D.

JOINING SECTIONS OF  
SILT FENCE

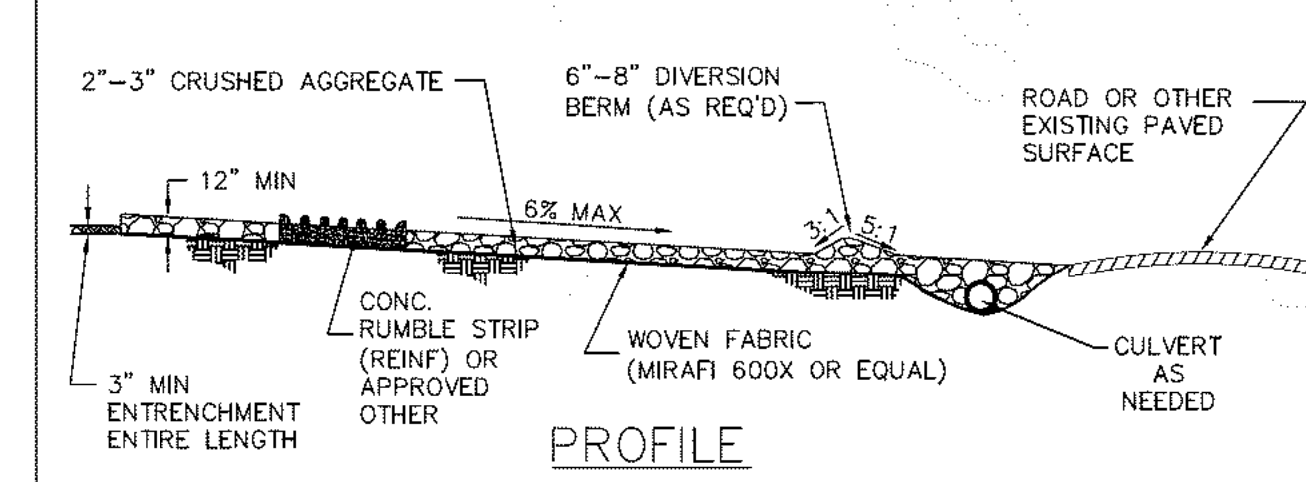
- CRITERIA**
- SILT FENCE SHALL BE 24 INCHES HIGH.
  - SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
  - GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
  - WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.

CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI

SILT FENCE INSTALLATION  
SHEET FLOW (ONLY)



PLAN VIEW



PROFILE

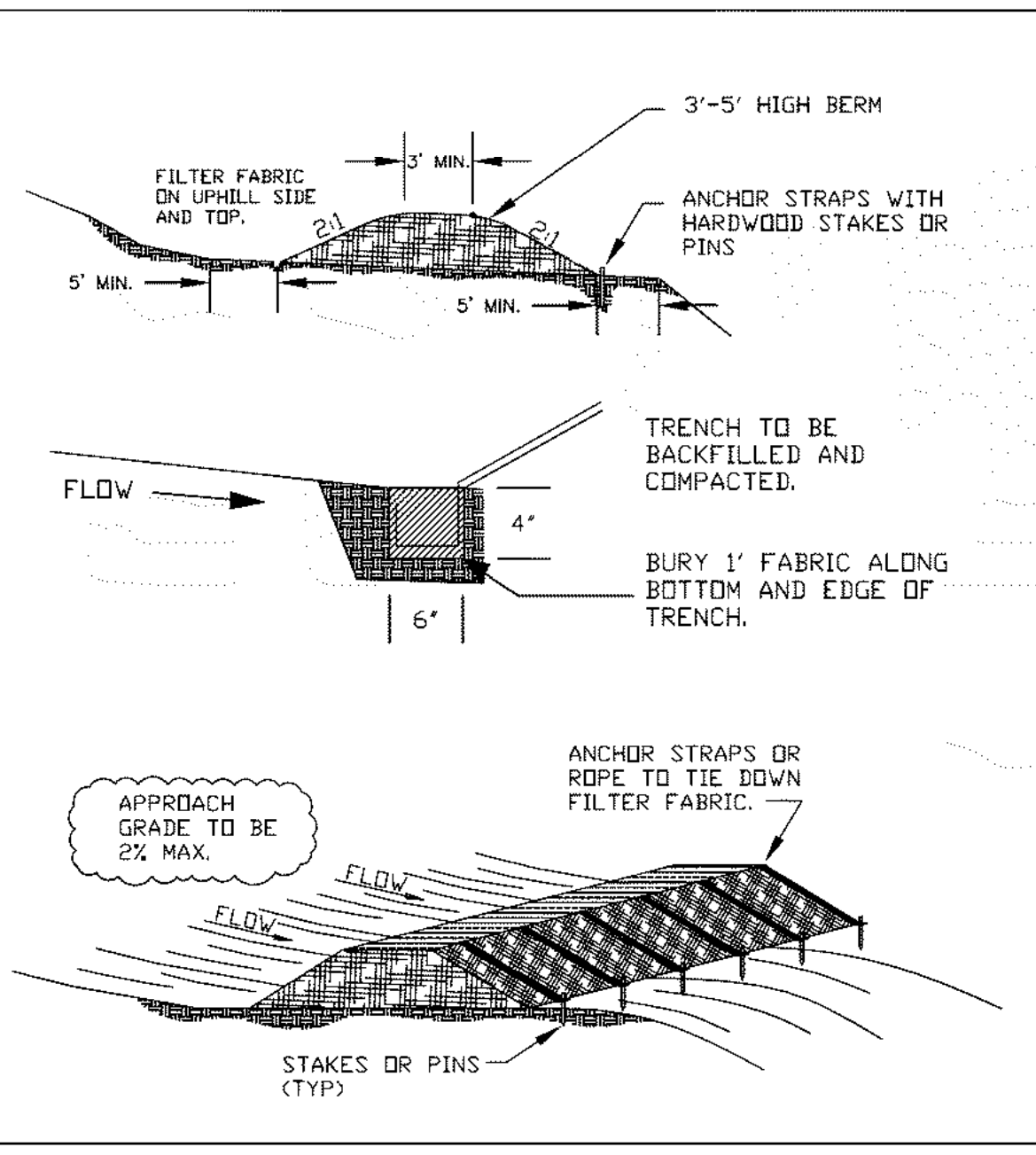
NOTE: A SPECIAL USE PERMIT IS REQ'D FOR THE ENTRANCE.

- DESIGN NOTES**
- DIVERT ALL RUNOFF TO A SEDIMENTATION CONTROL DEVICE.
  - PROVIDE WATER SUPPLY FOR WASHDOWN.

St. Charles County  
Erosion & Sediment Controls  
Standard Drawings

**CONSTRUCTION  
TRAFFIC WASH-OFF  
PAD**

DATE: APRIL 2008 DRAWING: ESC-4



**WOOD CHIP BARRIER DESIGN**

D.A. PER 100' BERM	FILTER FABRIC	BERM HEIGHT
0.5 AC	NO	3'
0.75 AC	YES	3'
1 AC MAX	YES	6'

- CRITERIA**
- WOOD CHIPS GENERATED FROM ON-SITE CLEARING OPERATIONS CAN BE USED.
  - THIS DEVICE MAY BE USED AS AN ALTERNATIVE FOR SILT FENCE.
  - BARRIER MUST BE AT LEAST 5' FROM A DISTURBED EMBANKMENT (EITHER SIDE).
  - REFER TO TABLE FOR DESIGN DETAILS.

St. Charles County  
Erosion & Sediment Controls  
Standard Drawings

**WOOD CHIP  
BARRIER  
INSTALLATION**

DATE: APRIL 2008 DRAWING: ESC-7