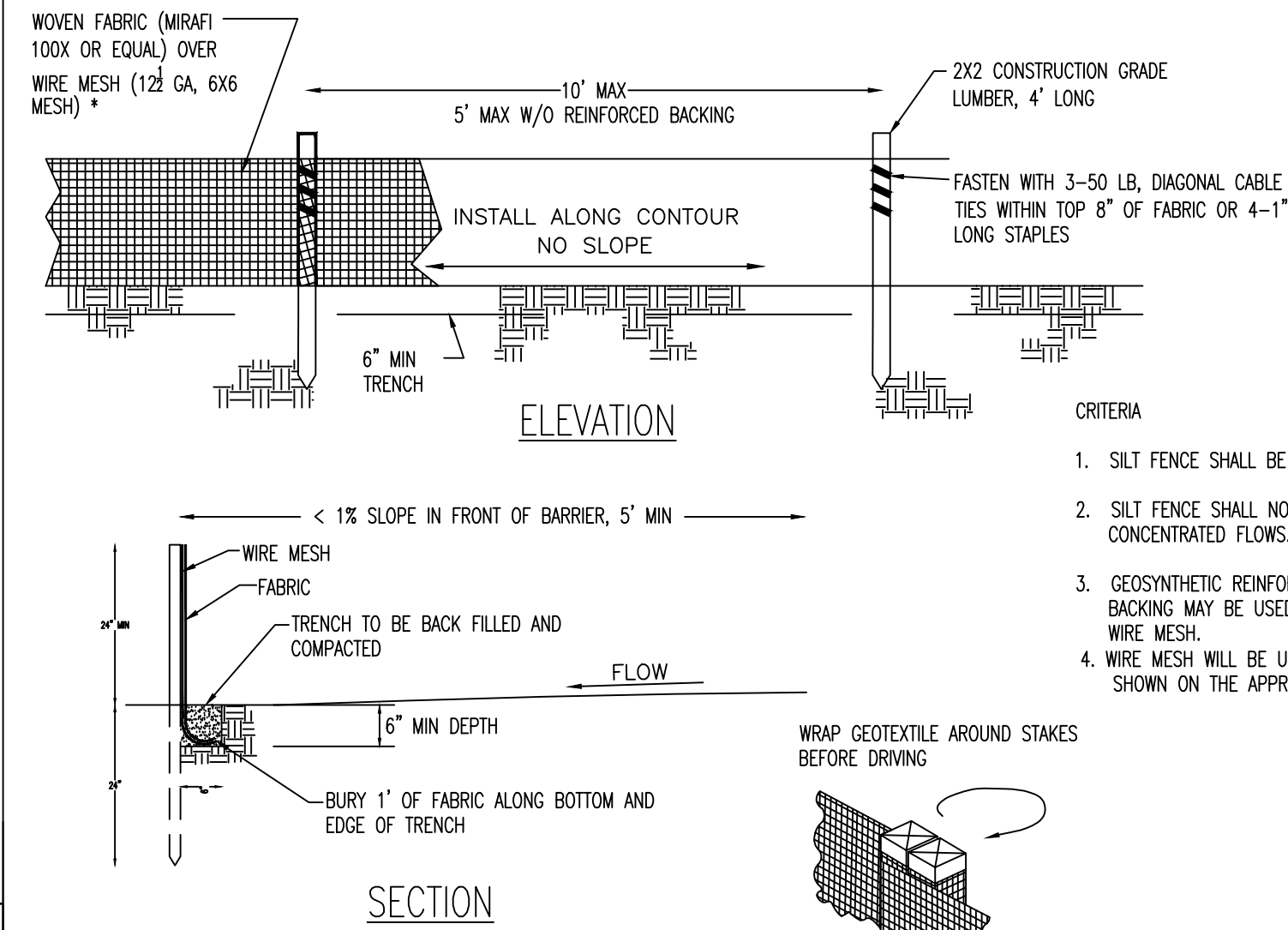


- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
 - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
 - REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
 - TERRACING INCLUDES LOGS, WATTLIES & FILTER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

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ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

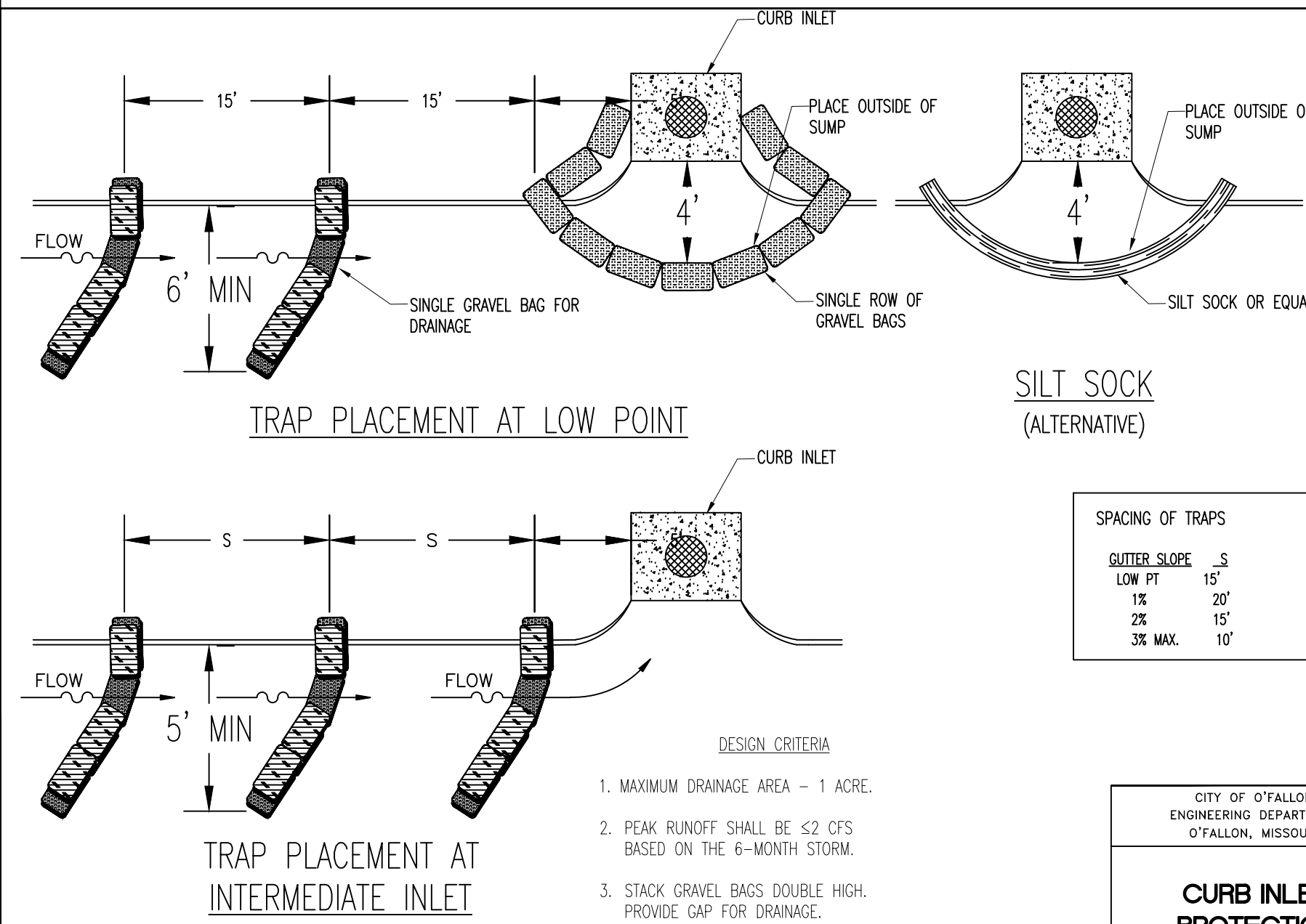
**SPACING CHART
FOR ESC DEVICES**



- 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.

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



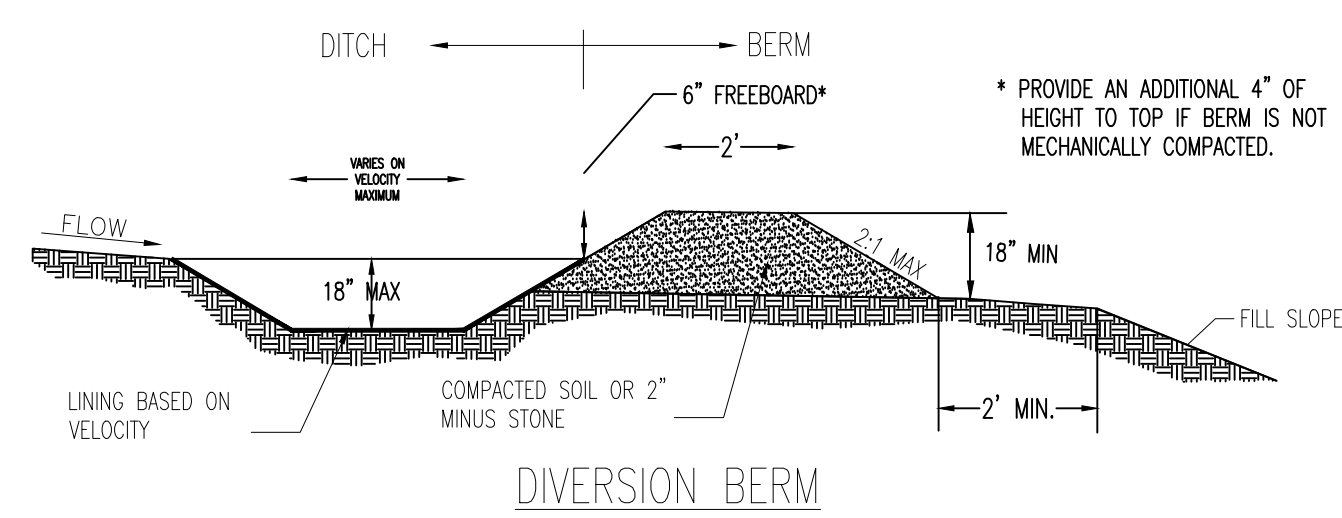
- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
 - PEAK RUNOFF SHALL BE ≤ 2 CFS BASED ON THE 6-MONTH STORM.
 - STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

SPACING OF TRAPS

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

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**CURB INLET
PROTECTION**



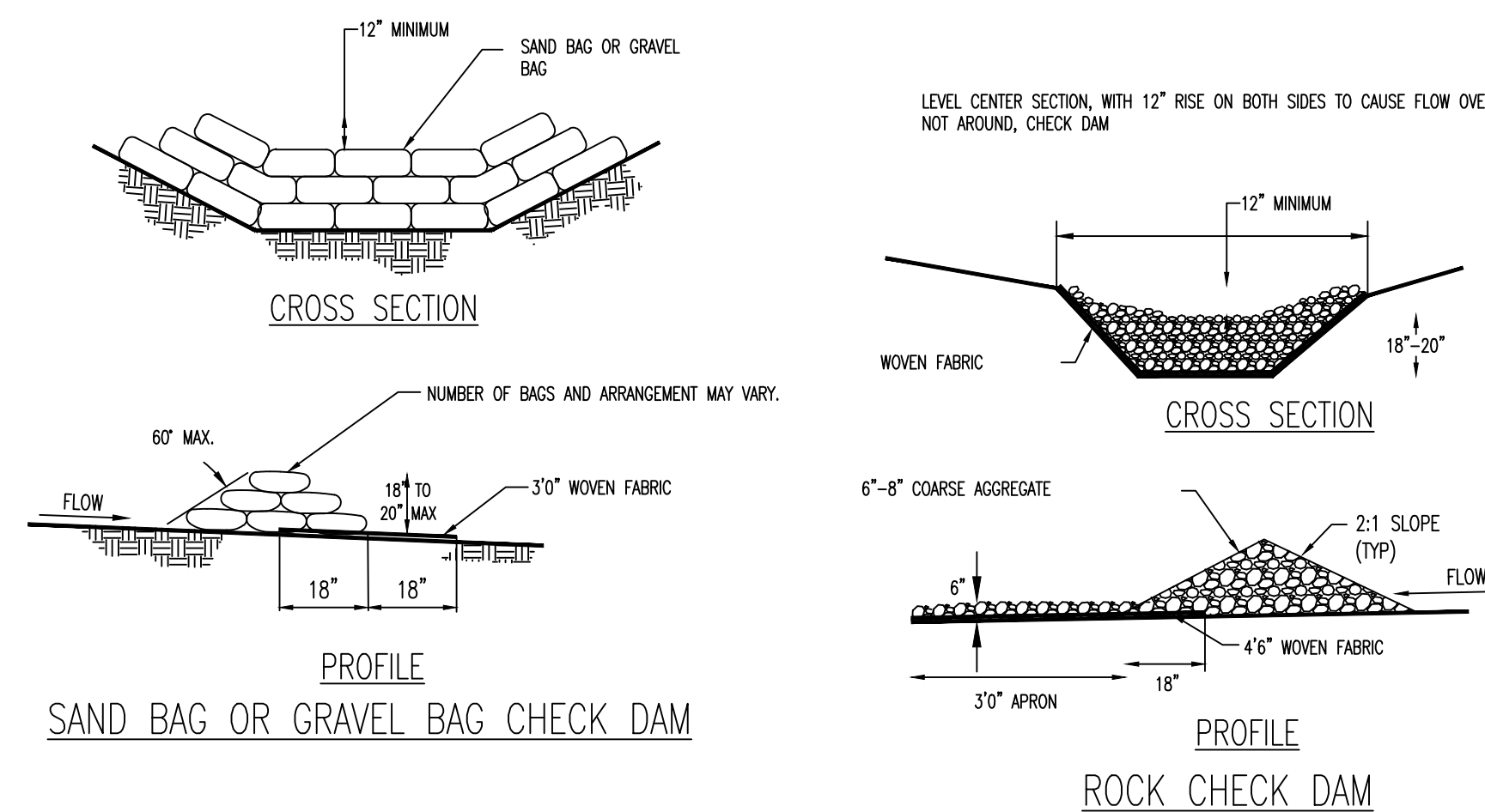
* PROVIDE AN ADDITIONAL 4" OF HEIGHT TO TOP IF BERM IS NOT MECHANICALLY COMPACTED.

DESIGN CRITERIA

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

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**DIVERSION BERMS
+ DIKES**

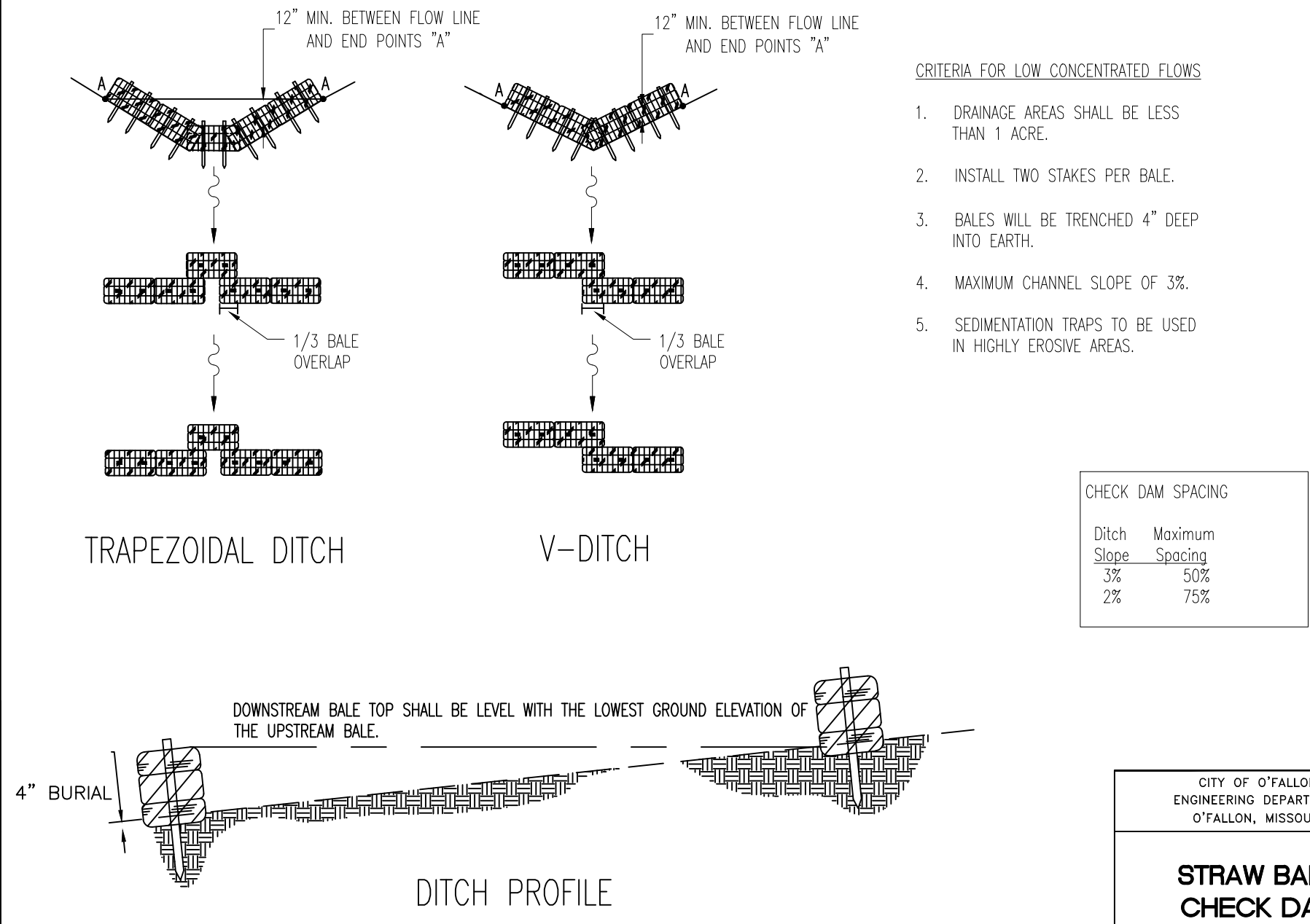


LEVEL CENTER SECTION, WITH 12" RISE ON BOTH SIDES TO CAUSE FLOW OVER, NOT AROUND, CHECK DAM

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

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CHECK DAMS



CRITERIA FOR LOW CONCENTRATED FLOWS

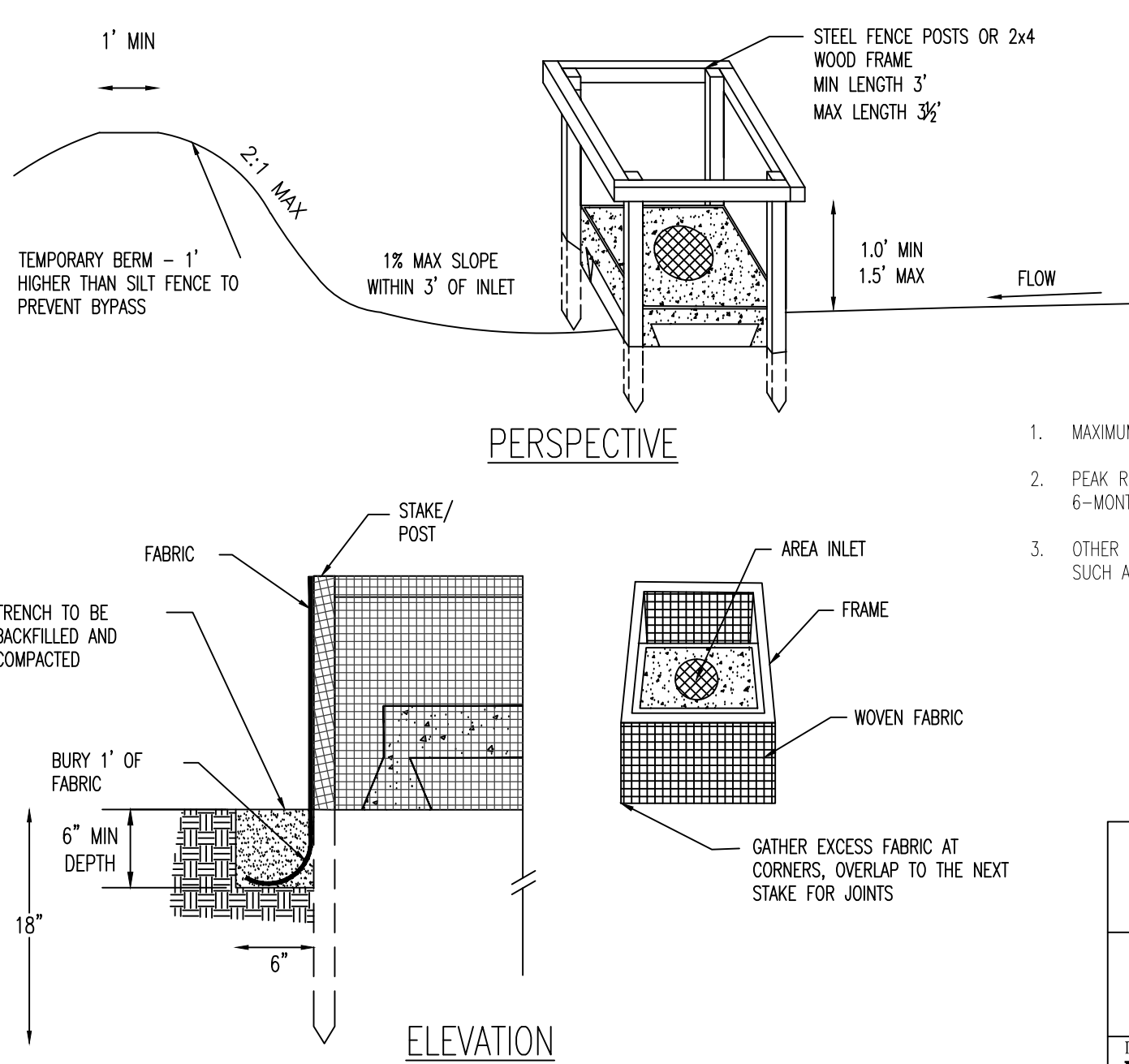
- DRAINAGE AREAS SHALL BE LESS THAN 1 ACRE.
- INSTALL TWO STAKES PER BALE.
- BALES WILL BE TRENCHED 4" DEEP INTO EARTH.
- MAXIMUM CHANNEL SLOPE OF 3%.
- SEDIMENTATION TRAPS TO BE USED IN HIGHLY ERODIBLE AREAS.

CHECK DAM SPACING

Ditch Slope	Maximum Spacing
3%	50'
2%	75'

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**STRAW BALE
CHECK DAM**

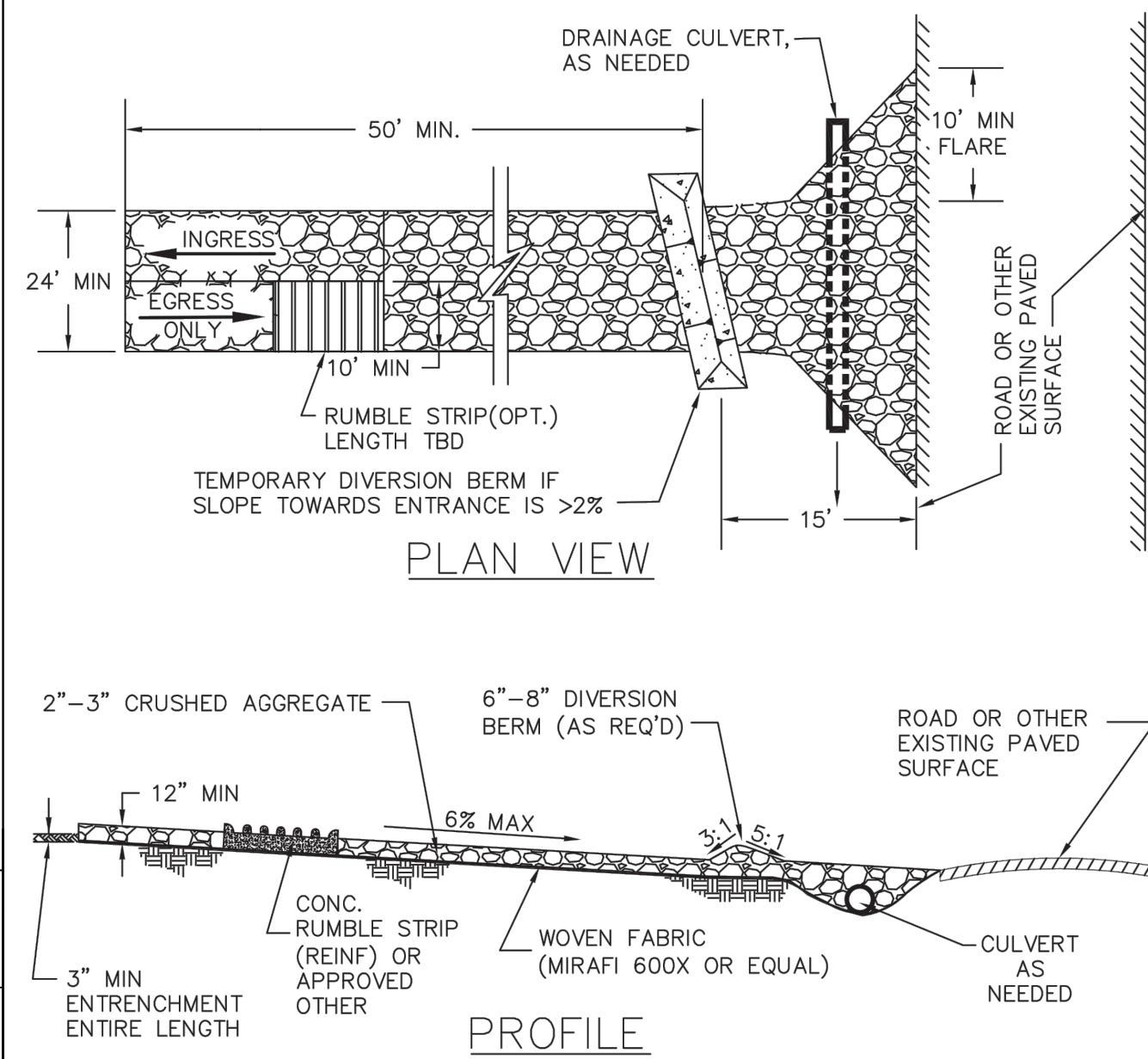


- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
 - PEAK RUNOFF SHALL NOT EXCEED 2 CFS BASED ON A 6-MONTH STORM EVENT.
 - OTHER SEDIMENT PROTECTION PRODUCTS MAY BE USED, SUCH AS FIBR FENCE™.

St. Charles County
Erosion & Sediment Controls
Standard Drawings

**AREA INLET
PROTECTION
FABRIC DROP**

DATE: MARCH 2008 DRAWING: ESC-14



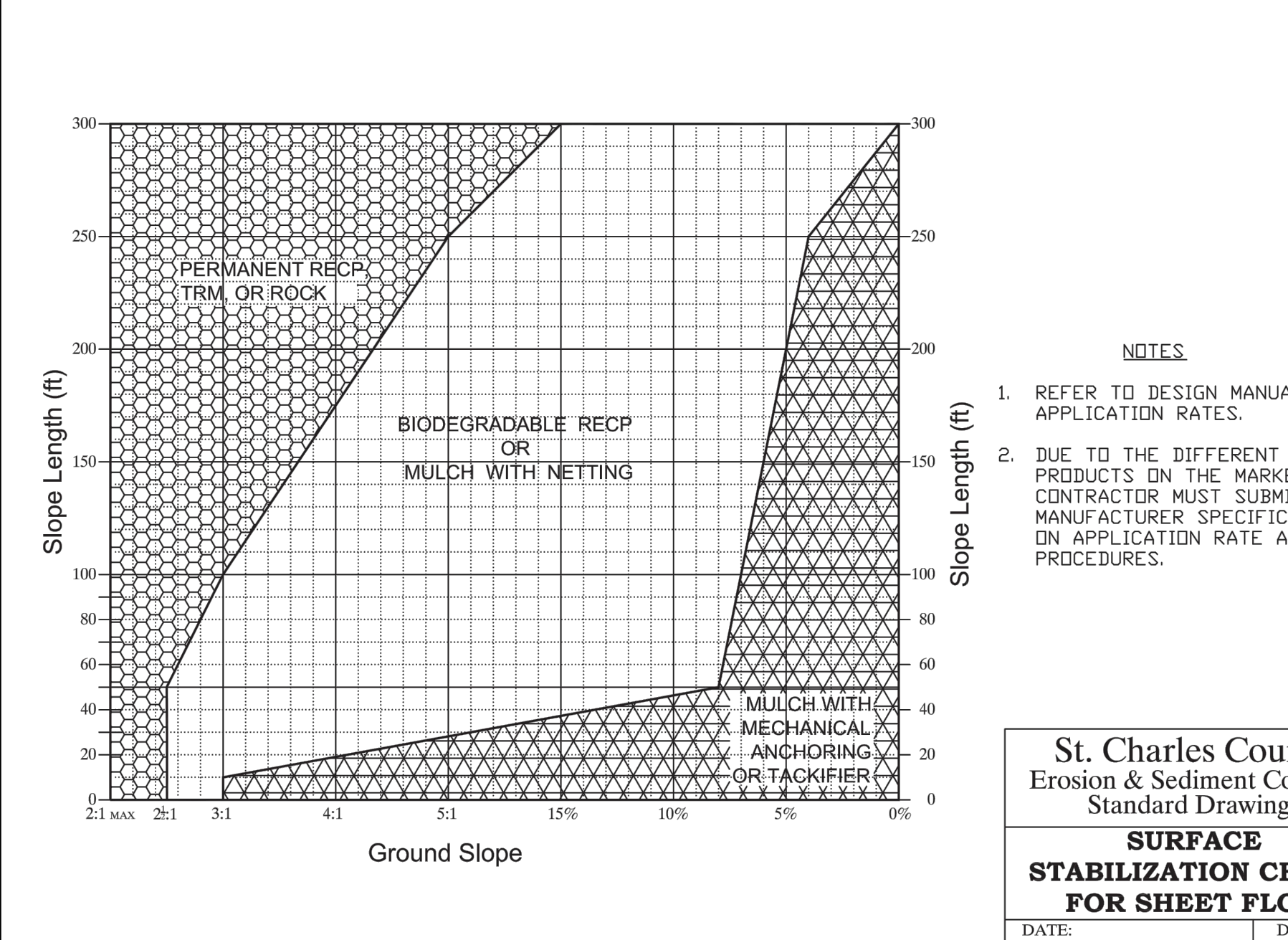
NOTE: A SPECIAL USE PERMIT IS REQ'D FOR THE ENTRANCE.

- 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



- NOTES**
- REFER TO DESIGN MANUAL FOR APPLICATION RATES.
 - DUE TO THE DIFFERENT PRODUCTS IN THE MARKET, CONTRACTOR MUST SUBMIT MANUFACTURER SPECIFICATIONS ON APPLICATION RATE AND PROCEDURES.

St. Charles County
Erosion & Sediment Controls
Standard Drawings

**SURFACE
STABILIZATION CHART
FOR SHEET FLOW**

DATE: MAY 2005 DRAWING: ESC-3

PROJECT TITLE:
LANDMARK COOL
SPRINGS LLC
1024 COOL SPRINGS RD
O'FALLON, MO 63366

Engineering Company's
Information

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O'Fallon, MO 63366
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www.crockettingeering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#00000010

ENGINEER SIGNATURE
BLOCK

STATE OF MISSOURI
JESSE RAY STEPHENS
NUMBER
PE-201000088
PROFESSIONAL ENGINEER

JESSE R STEPHENS
MO LICENSE - 201000088
2-12-2021

Developer / Owner Information
LANDMARK COOL SPRINGS LLC
114 STONE RIDGE MEADOWS
O'FALLON, MO 63366

City of O'Fallon Cover Sheet

P+Z No. - 20-007735
Approval Date: 10-2-2020

Permit No.

Page No.
CE 4 - EROSION CONTROL
DETAILS