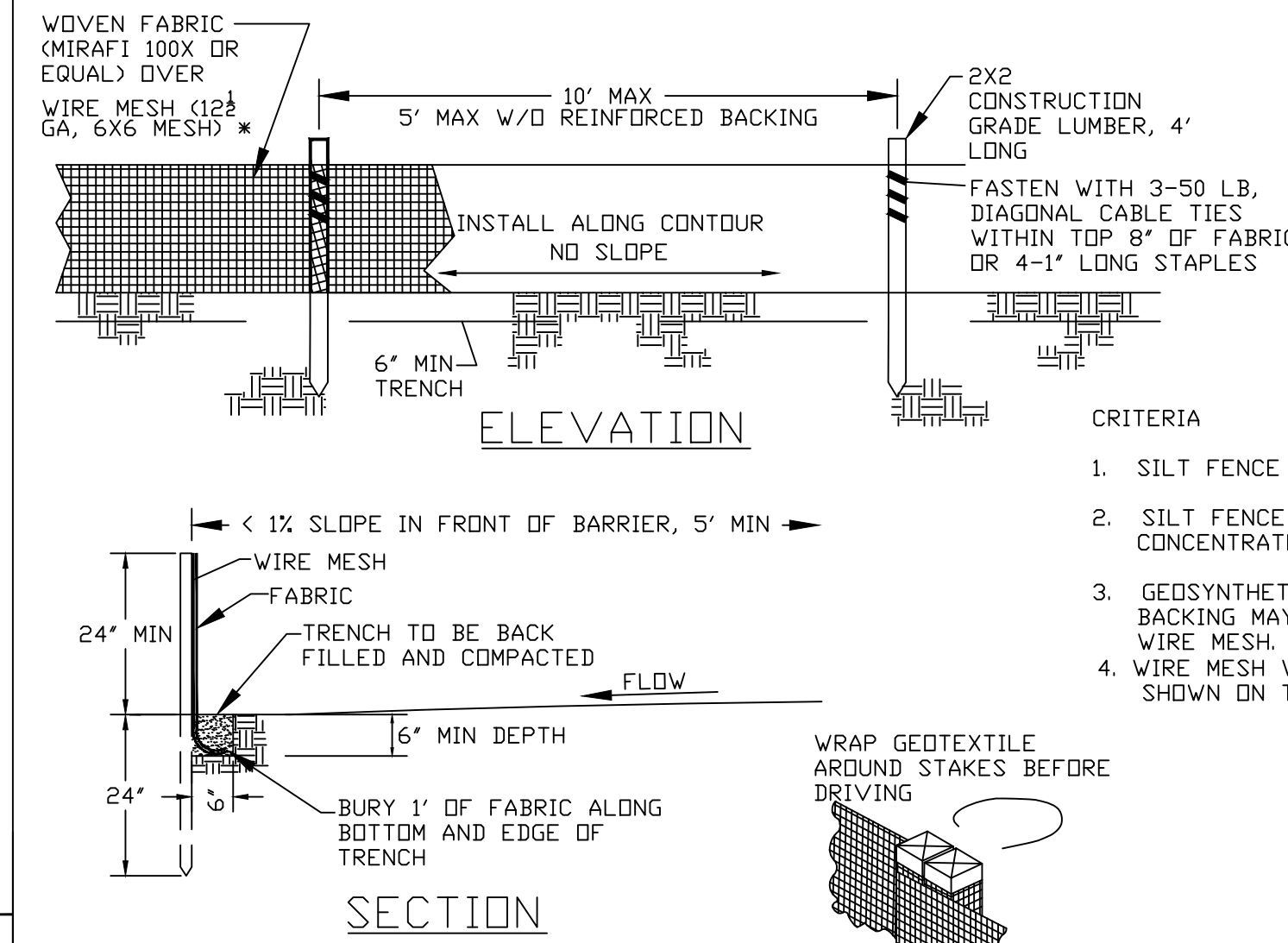


- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
  - TERRACING INCLUDES LOGS, WATTLES & FILTER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

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

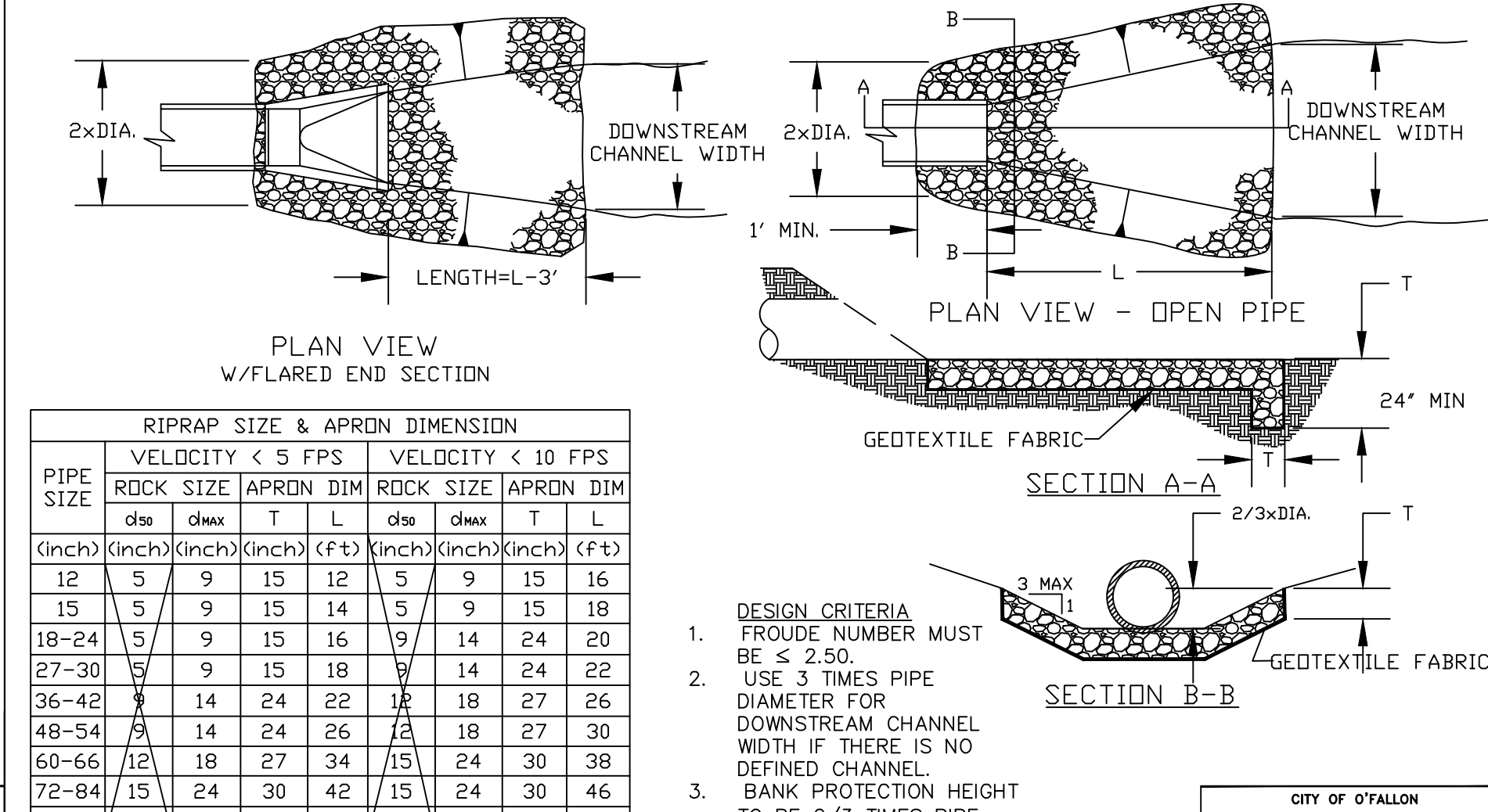
**SPACING CHART FOR ESC DEVICES**



- 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)**



**RIPRAP SIZE & APRON DIMENSION**

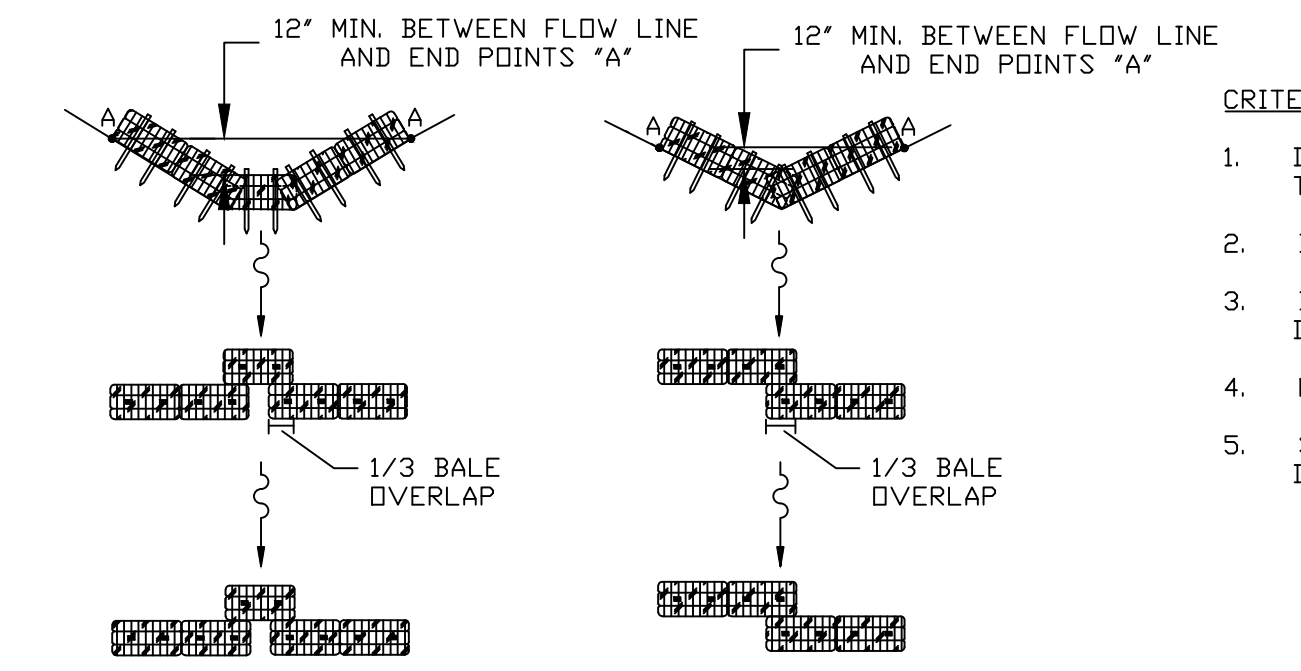
PIPE SIZE (inch)	VELOCITY < 5 FPS				VELOCITY < 10 FPS			
	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)
12	5	9	15	12	5	9	15	16
15	5	9	15	14	5	9	15	18
18-24	5	9	15	16	9	14	24	20
27-30	5	9	15	18	9	14	24	22
36-42	5	14	24	22	18	18	27	26
48-54	5	14	24	26	18	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

d<sub>50</sub> - NOMINAL DIAMETER  
d<sub>max</sub> - MAXIMUM DIAMETER  
T - THICKNESS  
L - LENGTH

- DESIGN CRITERIA**
- FROUDE NUMBER MUST BE ≤ 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**



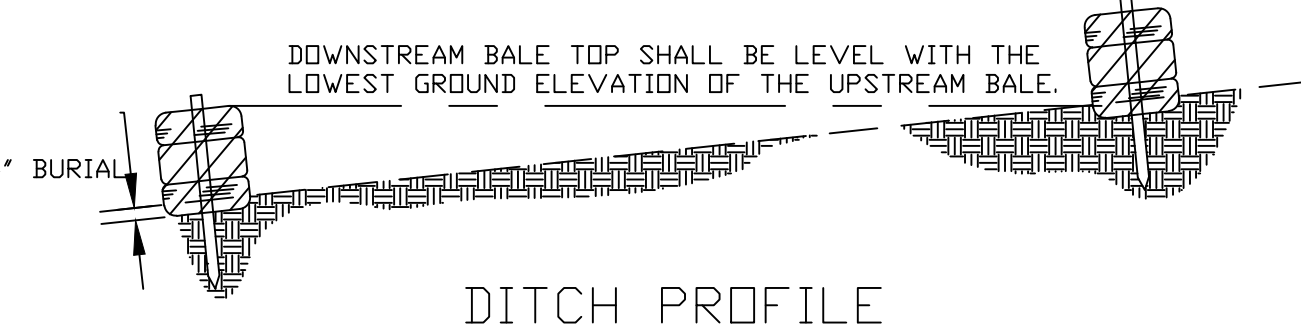
- CRITERIA FOR LOW CONCENTRATED FLOWS**
- DRAINAGE AREAS SHALL BE LESS THAN 1 ACRE.
  - INSTALL TWO STAKES PER BALE.
  - BALES WILL BE TRENCHED 4\"/>

**CHECK DAM SPACING**

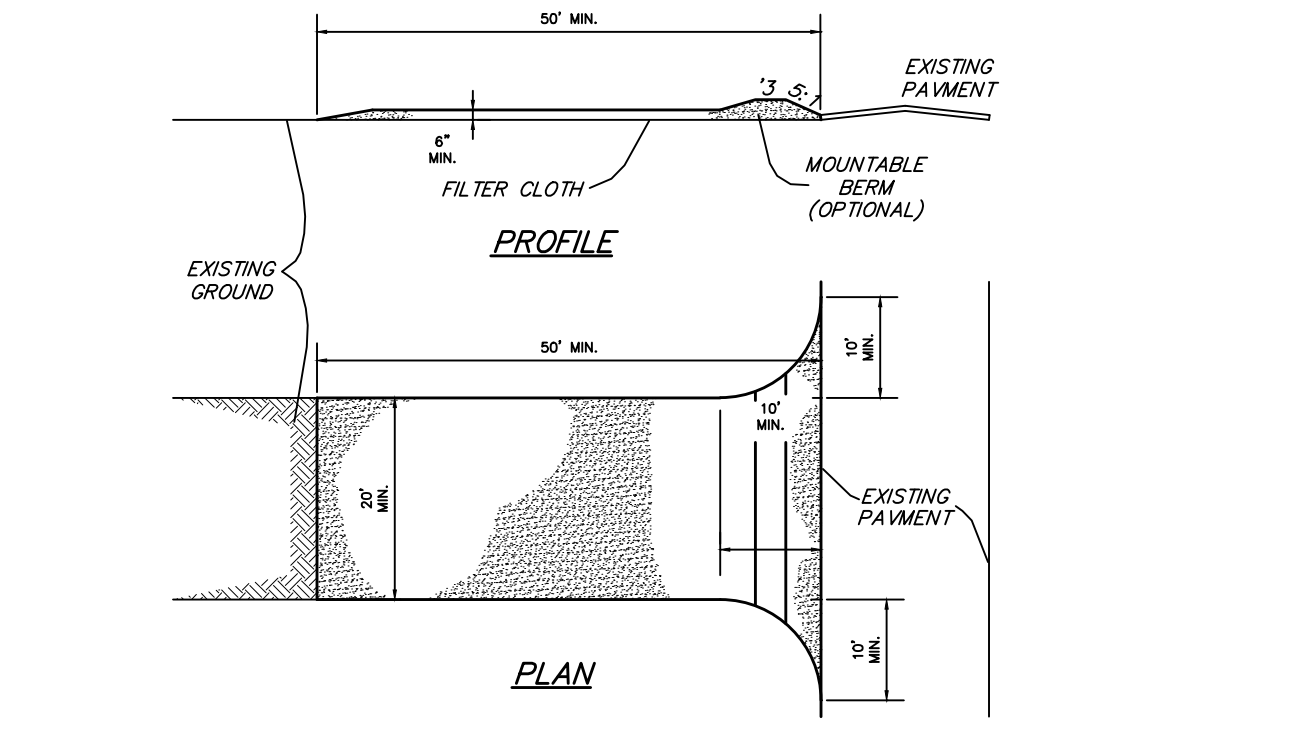
Ditch Slope	Maximum Spacing
3%	50'
2%	75'

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

**STRAW BALE CHECK DAM**



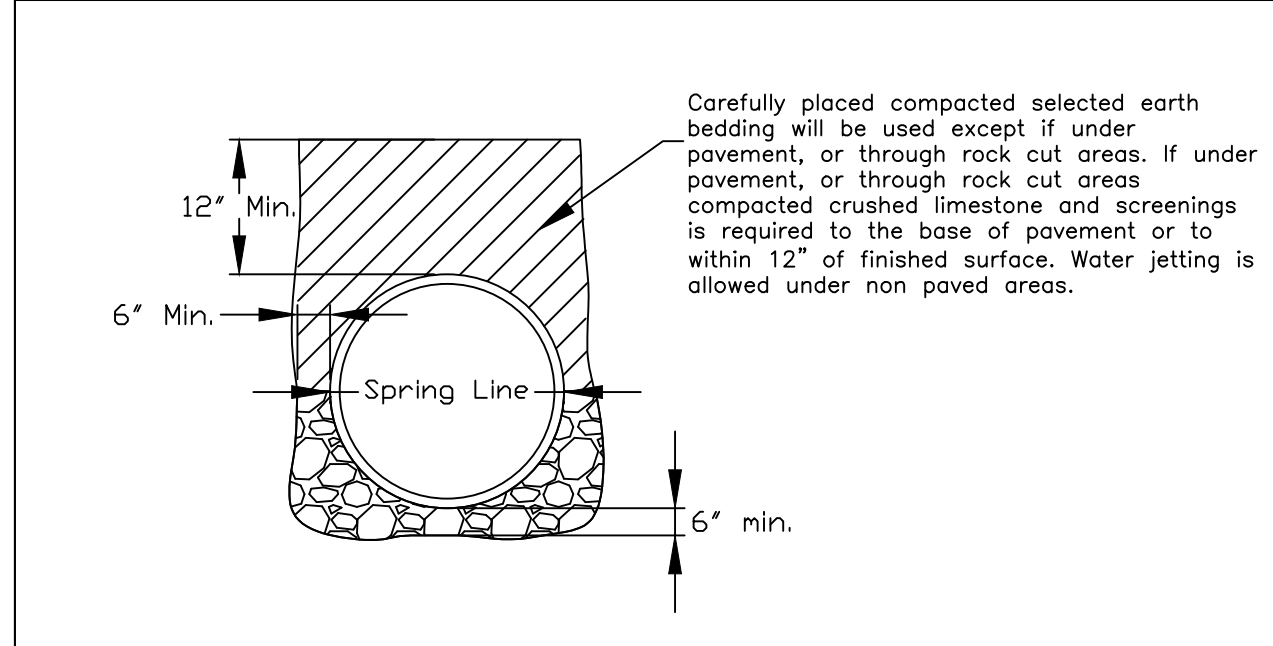
**DITCH PROFILE**



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2\"/>

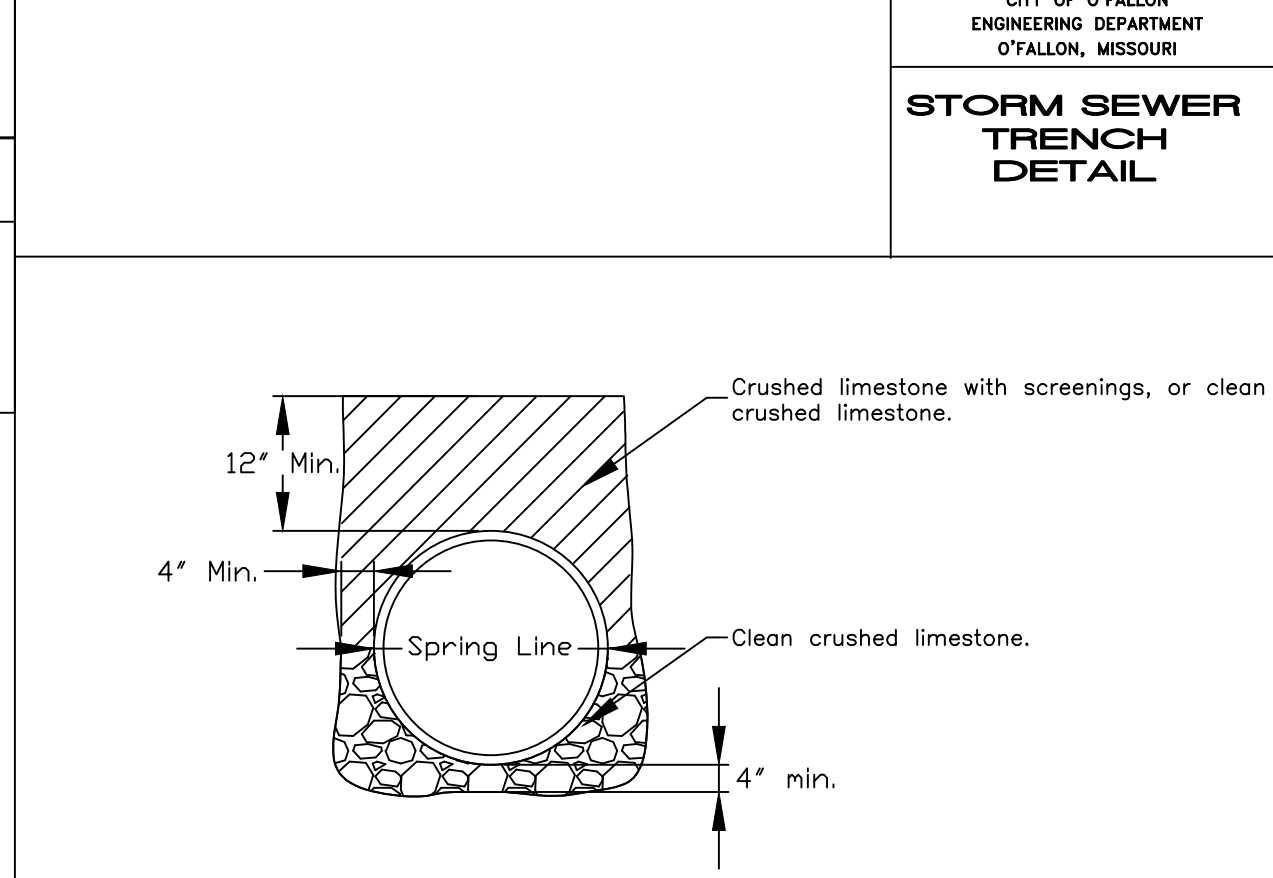
**STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA**  
NOT TO SCALE

- \* All other Storm or Sanitary Sewer Details will be by M.S.D. Standards and Specifications.**  
**\*\* All inlets shall have 5/8\"/>**



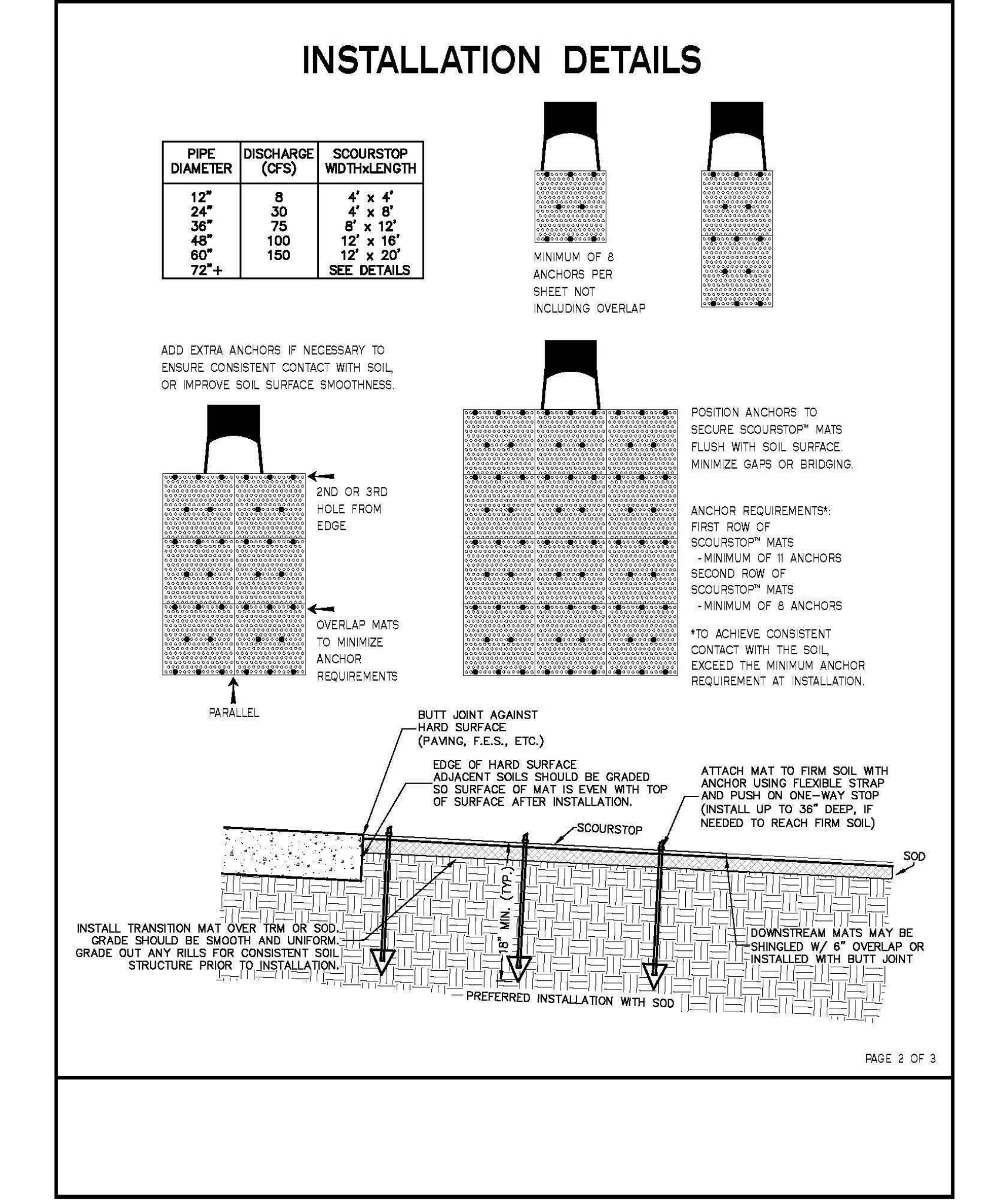
CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI

**STORM SEWER TRENCH DETAIL**



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

**SANITARY SEWER TRENCH DETAIL**

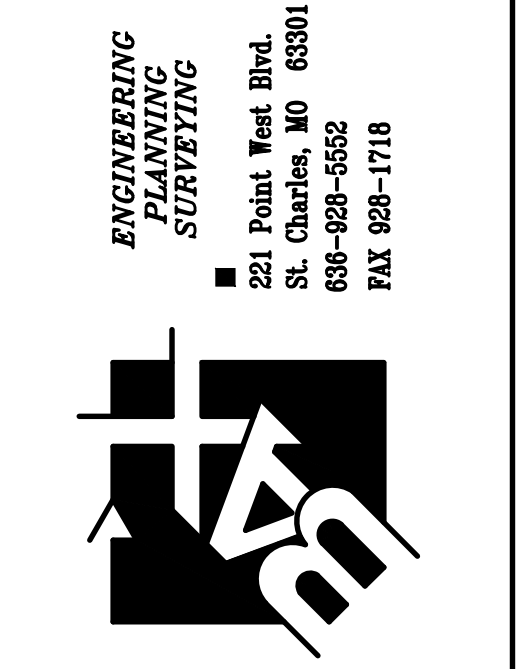


**PIPE DIAMETER DISCHARGE (CFS) SCOURSTOP WIDTHxLENGTH**

12"	8	4' x 4'
24"	30	4' x 8'
36"	75	8' x 12'
48"	100	12' x 16'
60"	150	12' x 20'
72"+		SEE DETAILS

PAGE 2 OF 3

**PROJECT TITLE:**  
**SHANE ESTATES PHASE TWO**  
#566 HIGHWAY P  
CITY OF O'FALLON  
ST. CHARLES COUNTY, MO. 63366



**DISCLAIMER OF RESPONSIBILITY**  
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

**REVISIONS**

DATE	CITY COMMENTS
03/04/20	CITY COMMENTS
03/19/20	CITY COMMENTS
04/15/20	CITY COMMENTS
10/01/20	CLIENT COMMENTS

**Developer / Owner:**  
ELLA REAL PROPERTY HOLDINGS, L.L.C.  
428 NORTH MAIN STREET  
O'FALLON, MO 63366  
(636) 577-2458

**CONSTRUCTION DETAILS**

**P+Z No.** #19-009651  
**Approval Date:** 11/07/2019  
**City No.** #City number

**Page No.**  
11 of 14

**ENGINEERS SEAL DOES NOT APPLY TO DETAILS ON THIS SHEET.**