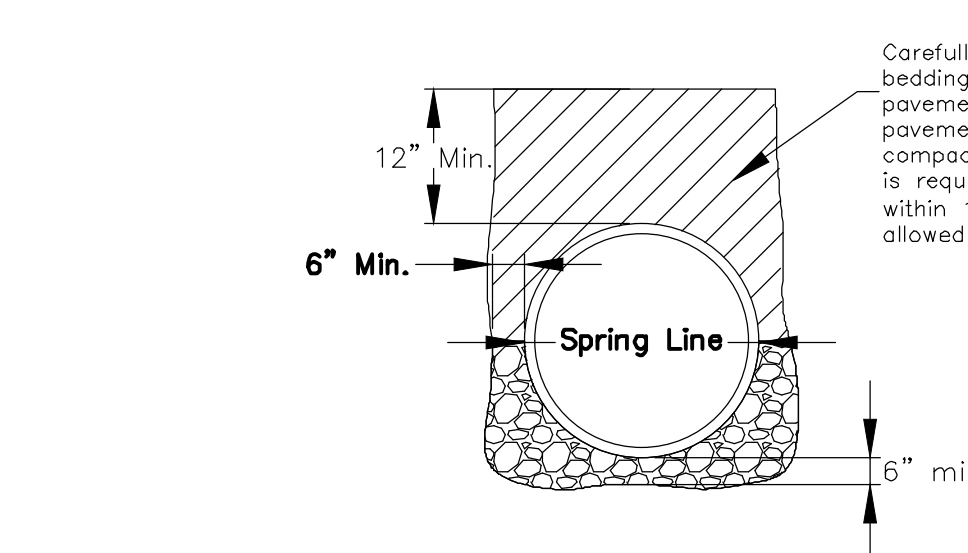
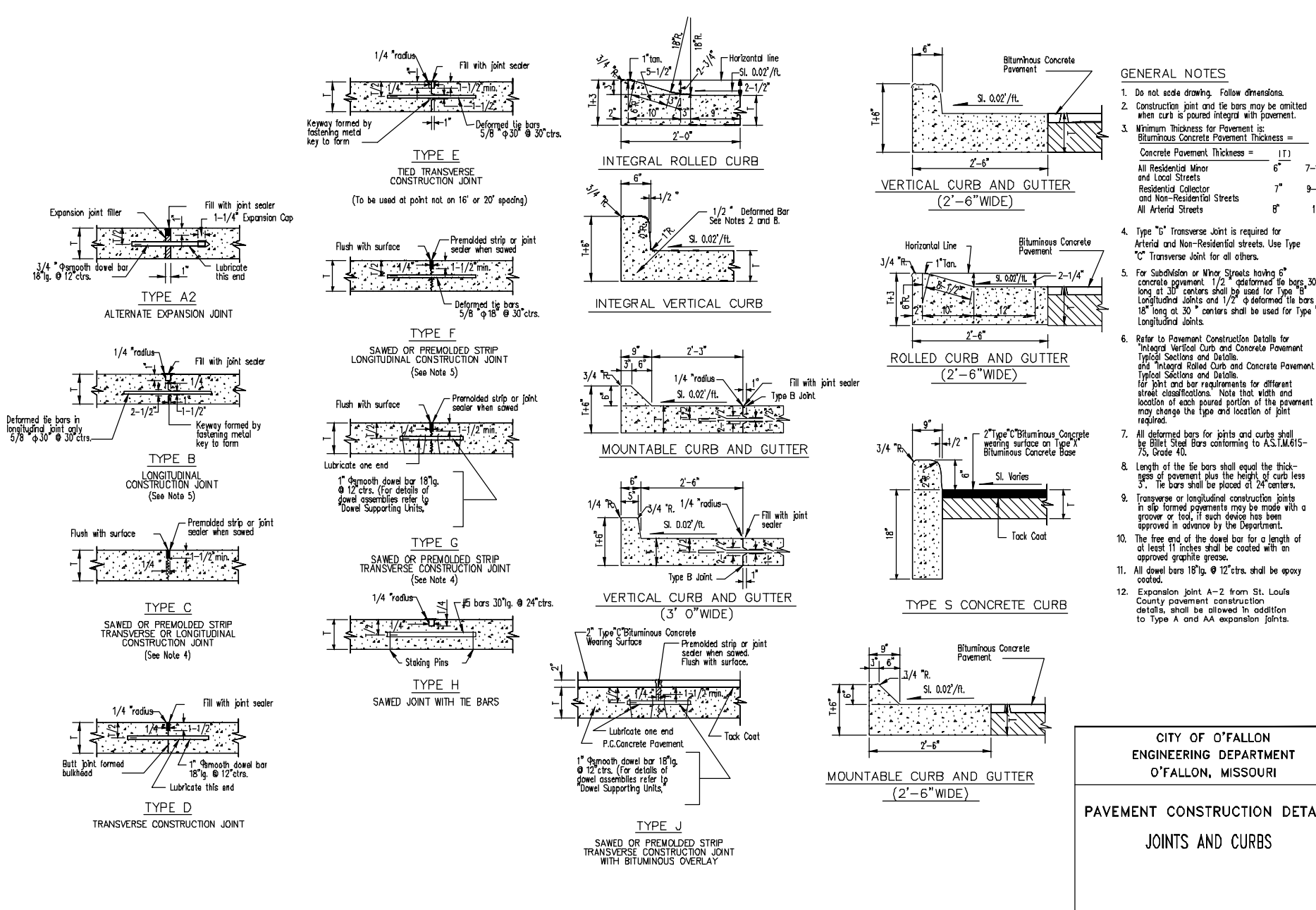
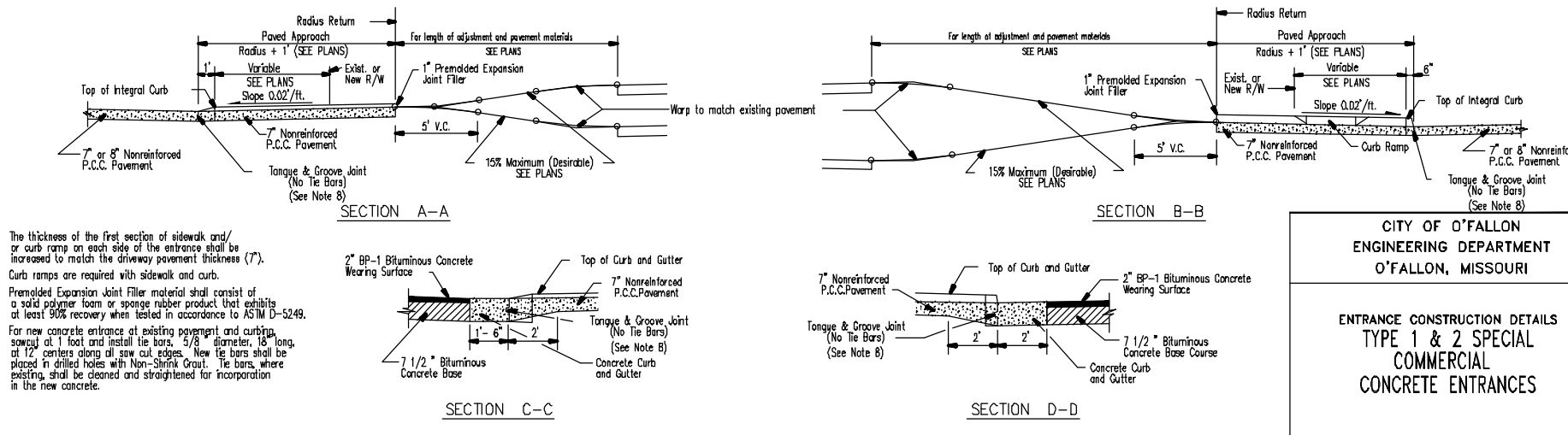
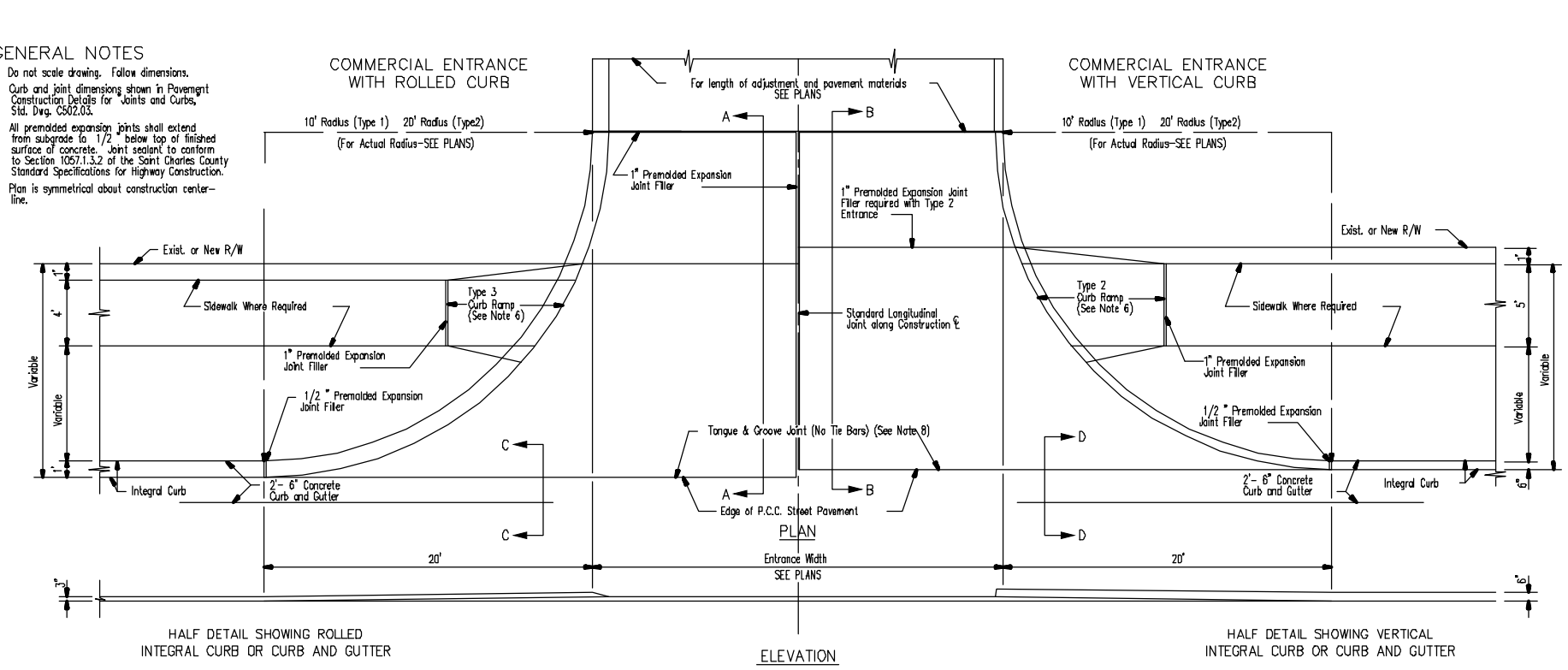


* The discharge point of all flared end sections shall be protected by rip rap or other approved means.
 ** Rip rap shown at flared end sections will be evaluated in the field by the Engineer, Contractor, and City Inspectors after installation for effectiveness and field modified, if necessary to reduce erosion on and off site.

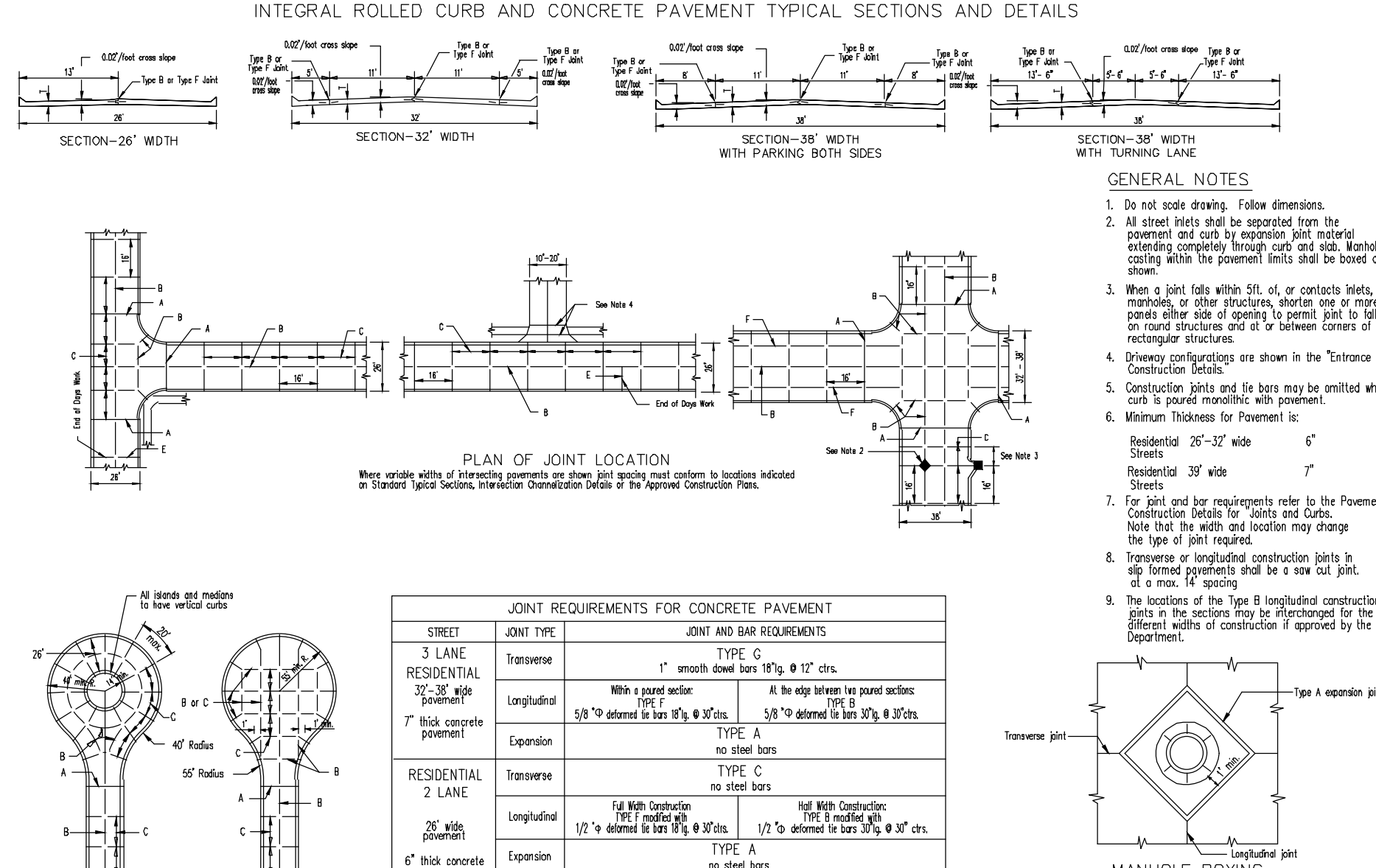
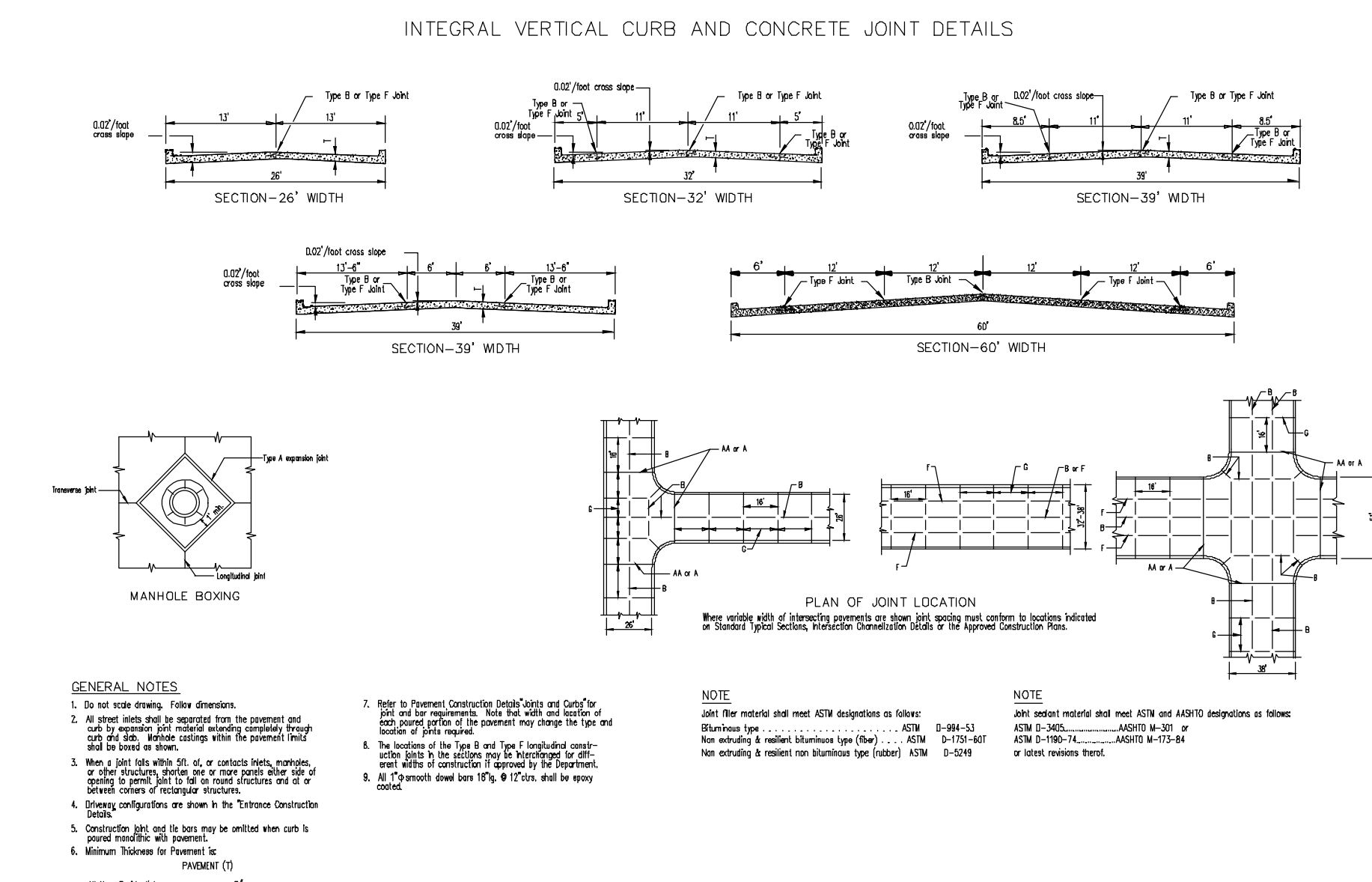
MSD Type 5 Rock Blanket (% By Weight Passing)

Sieve	Maximum	Minimum
12 inch	90	70
6 inch	30	10
1/2 inch	5	0

NOTE:
 1. To be used at intake and discharge end of pipe. Grade of Rock Blanket to be adjusted accordingly.
 2. Woven Geotextile Fabric required under Rock Blanket.



Carefully placed compacted selected earth bedding will be used except if under pavement, or through rock cut areas. If under pavement, or through rock cut areas compacted crushed limestone and screenings is required to the base of pavement or to within 12\"/>



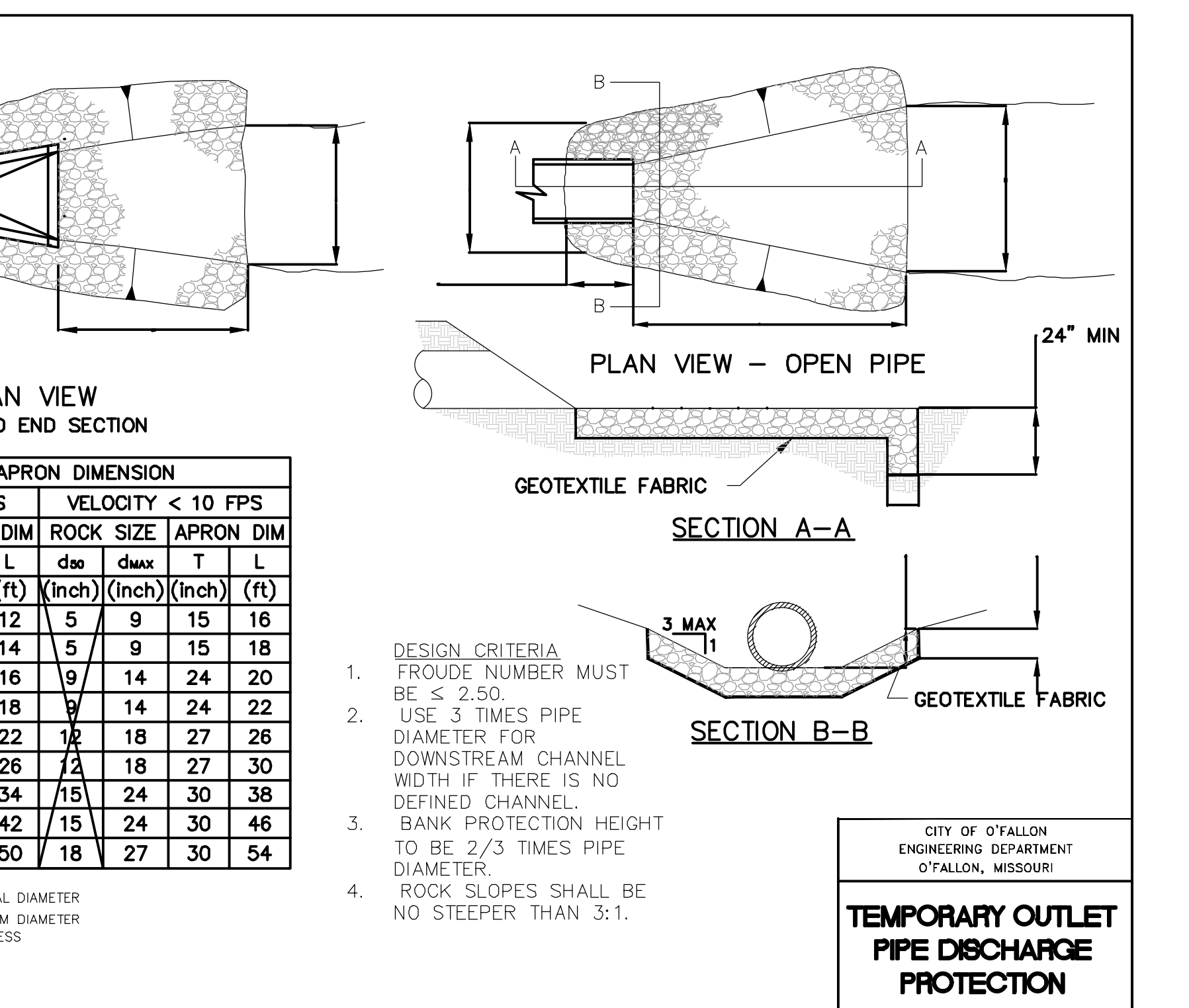
CITY OF O'FALLON ENGINEERING DEPARTMENT O'FALLON, MISSOURI

JOINT REQUIREMENTS FOR CONCRETE PAVEMENT

STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS
All Arterial, Inter-Expressway	Transverse	Type C 1\"/>
36\"/>		
17\"/>		

JOINT REQUIREMENTS FOR CONCRETE PAVEMENT

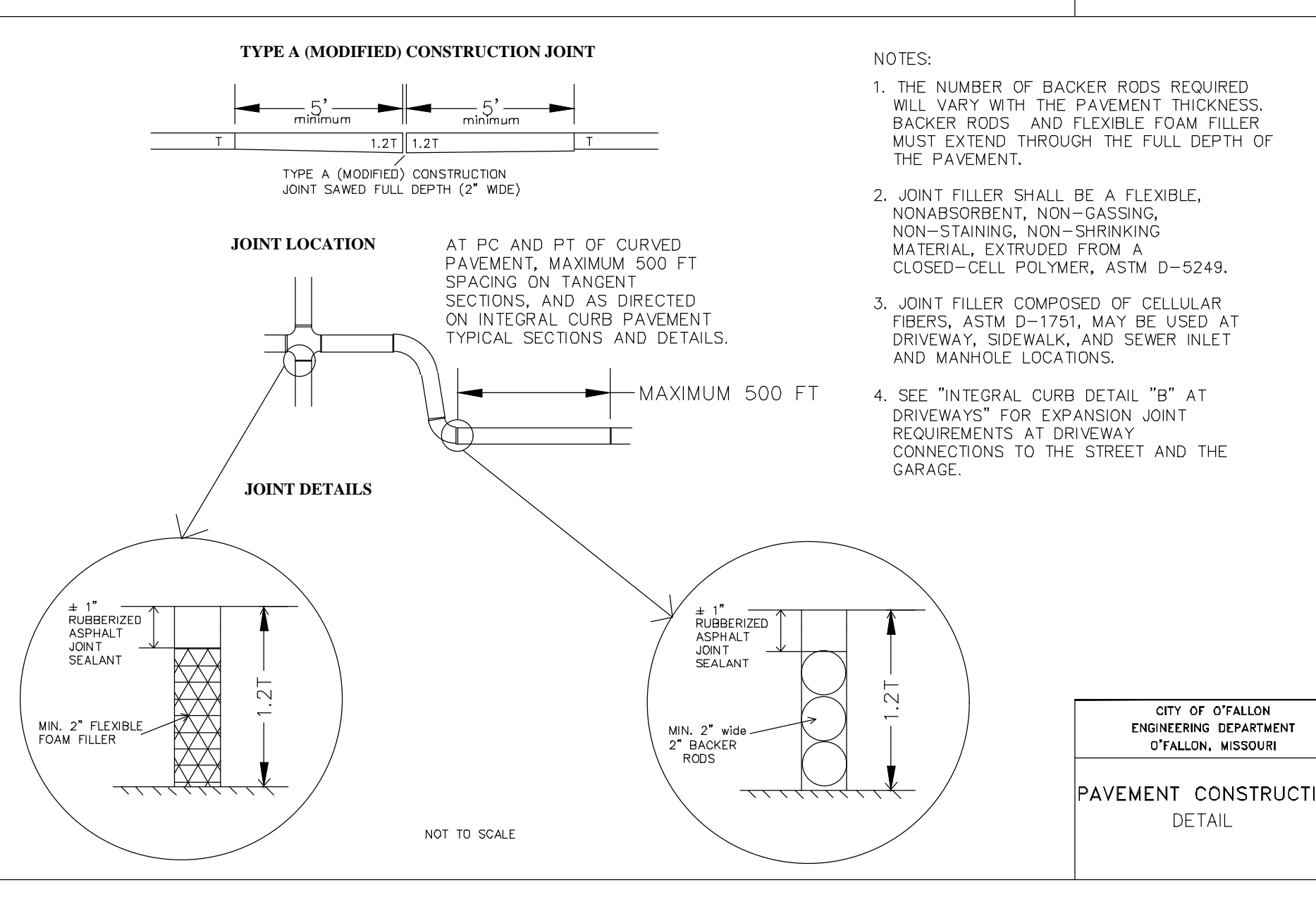
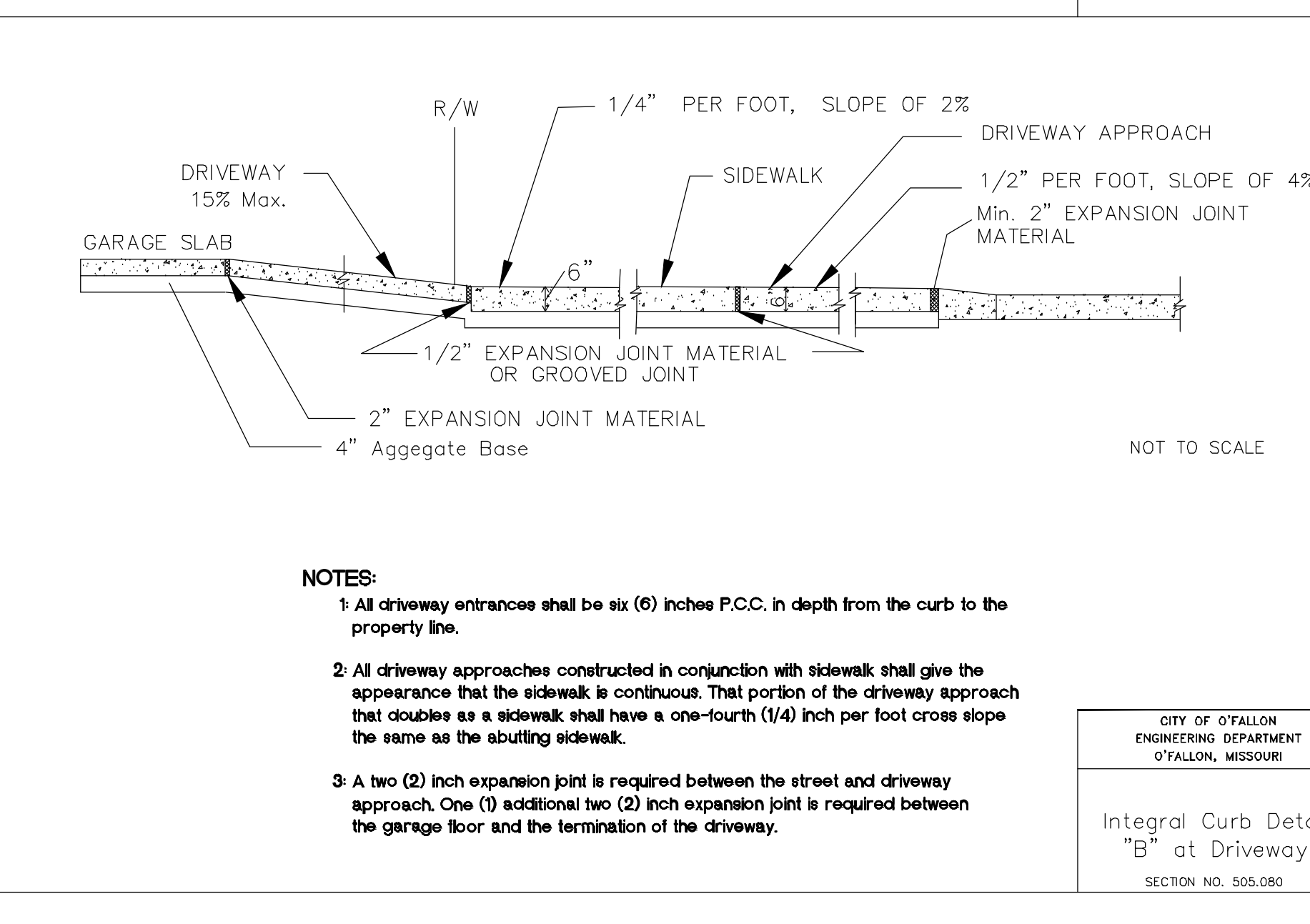
SHEET	JOINT TYPE	JOINT AND BAR REQUIREMENTS
RESIDENTIAL 3\"/>		
RESIDENTIAL 2\"/>		



RIPRAP SIZE & APRON DIMENSION

PIPE SIZE (Inch)	VELOCITY < 5 FPS				VELOCITY < 10 FPS			
	ROCK SIZE d50	APRON DIM dmax	T	L	ROCK SIZE d50	APRON DIM dmax	T	L
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	14	24	24	22
36-42	9	14	24	22	18	24	27	26
48-54	9	14	24	26	18	24	30	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 ≤ 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.



PROJECT TITLE
 IMPROVEMENT PLANS
 MIDWAY TRAILERS INC DBA
 MISSOURI GREAT DANE
 DETAILS

St. Peters
 22 Richmond Center Court
 St. Peters, MO 65276
 Phone (636) 397-1211
 Fax (636) 397-1104
 www.prs.com

Pickett Ray & Silver
 Civil Engineering & Land Surveying
 Beyond Standard

ENGINEER AUTHORIZATION
 KARL A. SCHENKLE, P.E.
 PROFESSIONAL ENGINEER LICENSE 20030150339

Developer / Owner Information
 STEVE + PATTI JONES
 PO BOX 275
 Benton, Missouri 63796

PAVEMENT CONSTRUCTION DETAIL
 CITY OF O'FALLON ENGINEERING DEPARTMENT O'FALLON, MISSOURI

PAVEMENT CONSTRUCTION DETAILS TYPICAL SECTIONS AND DETAILS
 CITY OF O'FALLON ENGINEERING DEPARTMENT O'FALLON, MISSOURI

ENTRANCE PLANS
 *** 10/04/2019, ENTRANCE PLANS ***

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