Structure Specification Sheet

Phil Balch, 2002 - revised 3/2006

Project Name	Stream	County	State	Bank	
Fawn Creek Farms, Site 2 (BBR18)	Blue River	Marshall	Kansas	Length	Height
Repairs				Shaped / Total	
Structure			Key	450 / 1,400	20

#	Type	Spacing	Angle	Area	Height	Length	Key Length	Yards3	yds3	Tons	Material Specifications
		ft.	(Degrees)	sq. ft.	ft.	ft.	ft.				
1	Weir	200	20	0	4	0	0	0	0	0.0	Poorly Sorted Limestone Rock
1	LPSTP	N/A	N/A	720	4	60	20	30	20	75.0	Poorly Sorted Limestone Rock
2	Weir	200	25	0	4	0	0	0	0	0.0	Poorly Sorted Limestone Rock
3	Weir	200	25	665	3	35	0	57	0	85.5	Poorly Sorted Limestone Rock
4	Weir	200	25	660	4	30	0	49	0	73.5	Poorly Sorted Limestone Rock
2	LPSTP	N/A	N/A	300	4	25	0	16.67	0	25.0	Poorly Sorted Limestone Rock
5	Weir	200	20	440	4	20	0	33	0	49.5	Poorly Sorted Limestone Rock
3	LPSTP	N/A	N/A	3420	6	190	0	255	0	382.5	Poorly Sorted Limestone Rock
6	Weir	200	20	1140	3	60	0	10	0	15.0	Poorly Sorted Limestone Rock
4	LPSTP	N/A	N/A	1980	3	220	0	146.67	0	220.0	Poorly Sorted Limestone Rock
7	Weir	200	10	1100	4	50	0	119	0	178.5	Poorly Sorted Limestone Rock
				10425				**716**	**20**	**1,105**	
							Total yds3	**736**			

Site Information

Structure Height / ft.	4		Cord Length / ft.		1305	
Crest Width / ft.	10		Mid Ord / ft.		190	
Finished Slope Grade/H:V	3.00		BkF Elev	1099	At Station	14+00
Schumm Channel Stage	5		Rosgen Classification		C5c-	
Radius of Curvature / ft.	1,215.411		Channel Width / ft.		224.50	
Max. Structure Spacing/ ft.	289.575		Tortuousity		5.414	
Reg. Structure Spacing / ft.	0.000		Critical Shear Stress		0.235	lbs./sq.ft.
Hydraulic Radius / ft.	6.050		Slope = ft./ ft.		0.00062311	3.29 ft./mile
Cross Sectional Area / sq. ft.	1374.5		Wetted Perimeter/ ft.		227.2	
Bank Full Discharge / cfs	15,600		Manning's n		0.030	
			Mean Velocity / fps		4.13	

Quantities List

Shot Rock Rock / Cubic Yards	736
Shot Rock / Tons	1,105
Soil moving/ Cubic Yds.	2,500
Bare Root Trees	350
Live Stakes	3,600
Temporary Seeding / acres	0.60
Native Grass Seeding / acres	0.60
Mulching / acres	0.60
Geo-textile fabric / sq.yds.	0.00

Channel Bank Vegetation - Practice Code 322

Vegetation Type	Quantity
Bare Root Seedlings / ea.	350.00
Live Stakes / ea.	3,600.00
Seeding/ acres	0.60
Mulching - Practice Code 484	
Mulching / acres	0.60

Five Year Flood Frequency -	
Discharge / cfs	40,920
8,448.48 Sq. Mi.	

Landowner	James Musil
C/O	Fawn Creek Farms
Address	759 State Highway 9
City, State Zip	Blue Rapids, KS 66411
Phone	785-363-7461
Legal	SW 1/4, Sec. 17, T4S, R7E
Date	9/9/2022