



# DITCH ANALYSIS

**PID :** 118119      **Date :** 09/28/2023      **Project :** LAW-052-21.52

**Location :** Fayette Township

**Description :** Sta. 1262+25 to Sta. 1264+25 RT

**Designer :** BMG

**Rainfall Area :** C

**Allowable Shears**

	<b>Seed:</b>	0.40	<b>Jute Mat:</b>	0.45	<b>Temporary Mat:</b>	1.00
<b>Permanent Mat</b>	<b>Type 1:</b>	2.00	<b>Type 2:</b>	3.00	<b>Type 3:</b>	5.00
<b>RCP</b>	<b>Type B:</b>	6.00				

(\*) Warning: Grade is steeper than allowable.

If value is parantheses, design parameters have been exceeded. - See user manual.

STATION BEGIN	STATION END	SIDE	LENGTH (ft.)	RADIUS (ft.)	IN SLOPE (ft./ft.)	BACK SLOPE (ft./ft.)	GRADE (ft./ft.)	AREA (acres)	AREA SUM (acres)	RUNOFF COEFF.	CA (Sum)	PROTECT TYPE	RAIN INT. (in./hr.)	STORM FREQ. (yrs.)	MANN. COEFF.	TIME FLOW (min.)	VEL. FLOW (fps.)	SHEAR (lbs./ sq.ft.)	DESIGN FLOW (cfs.)	DEPTH FLOW (ft.)	WIDTH FLOW (ft.)
1262+00	1263+00	R	100.00	2.00	3.00	2.00	0.0270	1.20	1.20	0.69	0.83	Seed	4.73	5	0.030	10.48	3.47	0.64	3.91	0.38	3.91
												Jute Mat	4.71	5	0.040	10.59	2.82	0.75	3.90	0.44	4.22
												Temp. Mat	4.71	5	0.040	10.59	2.82	0.75	3.90	0.44	4.22
												Temp. Mat	5.21	10	0.040	10.57	2.90	0.79	4.31	0.47	4.34
1263+00	1263+75	R	75.00	2.00	2.00	2.00	0.0270	0.09	1.29	0.76	0.90	Seed	4.64	5	0.030	10.93	3.64	0.69	4.16	0.41	3.63
												Jute Mat	4.63	5	0.040	11.01	2.97	0.80	4.15	0.47	3.90
												Temp. Mat	4.63	5	0.040	11.01	2.97	0.80	4.15	0.47	3.90
												Temp. Mat	5.13	10	0.040	10.98	3.06	0.84	4.60	0.50	4.00
1263+75	1264+25	R	50.00	8.00	2.00	2.00	0.2620*	1.79	3.08	0.69	2.13	Seed	4.61	5	0.030	11.12	7.29	2.65	9.82	0.16	8.65
												Jute Mat	4.60	5	0.040	11.14	6.10	3.14	9.82	0.19	8.77
												Temp. Mat	4.60	5	0.040	11.14	6.10	3.14	9.82	0.19	8.77
												Perm, Type 1	4.60	5	0.040	11.14	6.10	3.14	9.82	0.19	8.77
												Perm, Type 2	4.60	5	0.040	11.14	6.10	3.14	9.82	0.19	8.77



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STATION BEGIN	END	SIDE LENGTH (ft.)	RADIUS WIDTH (ft.)	IN SLOPE (ft./ft.)	BACK SLOPE (ft./ft.)	GRADE (ft./ft.)	AREA (acres)	AREA SUM (acres)	RUNOFF COEFF.	CA (Sum)	PROTECT TYPE	RAIN INT. (in./hr.)	STORM FREQ. (yrs.)	MANN. COEFF.	TIME FLOW (min.)	VEL. FLOW (fps.)	SHEAR (lbs./ sq.ft.)	DESIGN FLOW (cfs.)	DEPTH FLOW (ft.)	WIDTH FLOW (ft.)
											Perm, Type 3	4.60	5	0.040	11.14	6.10	3.14	9.82	0.19	8.77
											Perm, Type 3	5.11	10	0.040	11.11	6.34	3.34	10.89	0.20	8.82



# DITCH ANALYSIS

**PID :** 118119      **Date :** 09/28/2023      **Project :** LAW-052-21.52

**Location :** Fayette Township

**Description :** Sta. 1266+50 to Sta. 1268+75 RT

**Designer :** BMG

**Rainfall Area :** C

**Allowable Shears**

	<b>Seed:</b>	0.40	<b>Jute Mat:</b>	0.45	<b>Temporary Mat:</b>	1.00
<b>Permanent Mat</b>	<b>Type 1:</b>	2.00	<b>Type 2:</b>	3.00	<b>Type 3:</b>	5.00
<b>RCP</b>	<b>Type B:</b>	6.00				

(\*) Warning: Grade is steeper than allowable.

If value is parantheses, design parameters have been exceeded. - See user manual.

STATION BEGIN	STATION END	SIDE	LENGTH (ft.)	RADIUS WIDTH (ft.)	IN SLOPE (ft./ft.)	BACK SLOPE (ft./ft.)	GRADE (ft./ft.)	AREA (acres)	AREA SUM (acres)	RUNOFF COEFF.	CA (Sum)	PROTECT TYPE	RAIN INT. (in./hr.)	STORM FREQ. (yrs.)	MANN. COEFF.	TIME FLOW (min.)	VEL. FLOW (fps.)	SHEAR (lbs./ sq.ft.)	DESIGN FLOW (cfs.)	DEPTH FLOW (ft.)	WIDTH FLOW (ft.)
1268+75	1267+00	R	175.00	2.00	4.00	4.00	0.0280	0.64	0.64	0.58	0.37	Seed	3.85	5	0.030	16.19	2.43	0.36	1.43	0.21	3.67
												Seed	4.28	10	0.040	16.41	2.05	0.45	1.59	0.26	4.05
1267+00	1267+50	R	50.00	2.00	3.00	2.00	0.0280	0.24	0.88	0.76	0.55	Seed	3.82	5	0.030	16.47	2.91	0.47	2.10	0.27	3.35
												Jute Mat	3.81	5	0.040	16.53	2.38	0.55	2.10	0.32	3.58
												Temp. Mat	3.81	5	0.040	16.53	2.38	0.55	2.10	0.32	3.58
												Temp. Mat	4.24	10	0.040	16.75	2.46	0.58	2.34	0.33	3.67
1267+50	1268+75	R	125.00	2.00	2.00	2.00	0.1880*	0.24	1.11	0.58	0.69	Seed	3.77	5	0.030	16.87	6.11	2.11	2.59	0.18	2.72
												Jute Mat	3.76	5	0.040	16.95	5.03	2.49	2.59	0.21	2.85
												Temp. Mat	3.76	5	0.040	16.95	5.03	2.49	2.59	0.21	2.85
												Perm, Type 1	3.76	5	0.040	16.95	5.03	2.49	2.59	0.21	2.85
												Perm, Type 2	3.76	5	0.040	16.95	5.03	2.49	2.59	0.21	2.85
												Perm, Type 2	4.19	10	0.040	17.15	5.22	2.65	2.88	0.23	2.90