

Sub Area	Total Sub Area (sf)	Total Sub Area (ac)
A7	9620.54	0.22
A6	8222.20	0.19
A5	14314.90	0.33
A3	25108.86	0.58
A2	31959.24	0.73
C4	25271.71	0.58
C3	7260.16	0.17
C2	14379.04	0.33
D4	6542.82	0.20
D3	12497.85	0.29
D2	5401.47	0.12
D1	46531.83	1.07
E1	5931.57	0.14
EX1	18289.11	0.42
F5	3855.33	0.09
F3	18416.82	0.42
F1	7943.32	0.18
G4	20497.95	0.47
G3	11522.62	0.26
G2	30379.50	0.70
H1	17374.76	0.40
J6	4170.60	0.10
J5	9399.39	0.22
J4	7605.44	0.17
K1	10049.32	0.23

Line	Cumulative Area (acres)	Time in Line	Length of Line	Cumulative C	Tc Cumulative (min)	1-10 (in/hr)	Q-10 (cfs)	Pipe Dia (inches)	Pipe n	Grade %	Capacity (cfs)
A7-A6	0.22	0.00	1.00	0.81	5.0	7.35	1.32	12	0.013	1.00	3.57
A6-A5	0.41	0.00	1.00	0.81	5.0	7.35	2.44	12	0.013	1.00	3.57
A5-A4	0.74	0.00	1.00	0.81	5.0	7.35	4.40	15	0.013	1.00	6.48
A4-A3	1.31	0.00	1.00	0.81	5.0	7.35	7.83	18	0.013	1.00	10.53
A3-A2	0.73	0.00	1.00	0.81	5.0	7.35	4.37	18	0.013	1.00	10.53
A2-A1	0.73	0.00	1.00	0.81	5.0	7.35	4.37	18	0.013	1.00	10.53
B3-B2	0.00	0.00	1.00	0.81	5.0	7.35	0.00	12	0.013	1.00	3.57
B2-B1	0.00	0.00	1.00	0.81	5.0	7.35	0.00	36	0.013	1.00	66.88
C4-C3	0.58	0.00	1.00	0.81	5.0	7.35	3.46	36	0.013	1.00	66.88
C3-C2	0.75	0.00	1.00	0.81	5.0	7.35	4.45	18	0.013	1.00	10.53
C2-C1	1.08	0.00	1.00	0.81	5.0	7.35	6.41	18	0.013	1.00	10.53
D4-D3	0.20	0.00	1.00	0.81	5.0	7.35	1.17	12	0.013	1.00	3.57
D3-D2	0.48	0.00	1.00	0.81	5.0	7.35	2.88	12	0.013	1.00	3.57
D2-D1	0.61	0.00	1.00	0.81	5.0	7.35	3.62	15	0.013	1.00	6.48
D1-C1	1.68	0.00	1.00	0.81	5.0	7.35	9.98	18	0.013	1.00	10.53
F5-F4	0.09	0.00	1.00	0.81	5.0	7.35	0.53	18	0.013	1.00	10.53
F4-F3	0.09	0.00	1.00	0.81	5.0	7.35	0.53	18	0.013	1.00	10.53
F3-F2	0.51	0.00	1.00	0.81	5.0	7.35	3.05	18	0.013	1.00	10.53
F2-F1	0.69	0.00	1.00	0.81	5.0	7.35	4.13	18	0.013	1.00	10.53
F1-EX1	1.11	0.00	1.00	0.81	5.0	7.35	6.63	18	0.013	1.00	10.53
G4-G3	0.47	0.00	1.00	0.81	5.0	7.35	2.80	12	0.013	1.00	3.57
G3-G2	0.74	0.00	1.00	0.81	5.0	7.35	4.38	15	0.013	1.00	6.48
G2-G1	1.43	0.00	1.00	0.81	5.0	7.35	8.53	18	0.013	1.00	10.53
J6-J5	0.10	0.00	1.00	0.81	5.0	7.35	0.57	12	0.013	1.00	3.57
K1-J5	0.23	0.00	1.00	0.81	5.0	7.35	1.37	12	0.013	1.00	3.57
J5-J4	0.54	0.00	1.00	0.81	5.0	7.35	3.23	12	0.013	1.00	3.57
J4-J3	0.72	0.00	1.00	0.81	5.0	7.35	4.27	15	0.013	1.00	6.48
A1-J3	0.73	0.00	1.00	0.81	5.0	7.35	4.37	15	0.013	1.00	6.48
J3-J2	0.73	0.00	1.00	0.81	5.0	7.35	4.37	15	0.013	1.00	6.48
J2-J1	0.73	0.00	1.00	0.81	5.0	7.35	4.37	15	0.013	1.00	6.48
J1-G1	0.73	0.00	1.00	0.81	5.0	7.35	4.37	15	0.013	1.59	8.17

SUB Area	Total Sub Area sf	Total Sub Area acres	Pervious Area sf	Impervious Area sf	Pervious Area acres	Impervious Area acres	Impervious %	Pervious %	Composite C	Composite CN
EXISTING	443271	10.18	443271	0	10.18	0.00	0.00	100.00	0.30	74.0
PROPOSED	443271	10.18	163399	279872	3.75	6.42	63.14	36.86	0.68	89.2



NOT FOR CONSTRUCTION

The Rush Funplex
New Entertainment Center
Lot 10A - Summit Orchards West
Lee's Summit, MO

#	Revisions:

Project #: 251203-C
Preliminary Development Plan
13 March 2026

DRAINAGE CALCULATIONS
C501