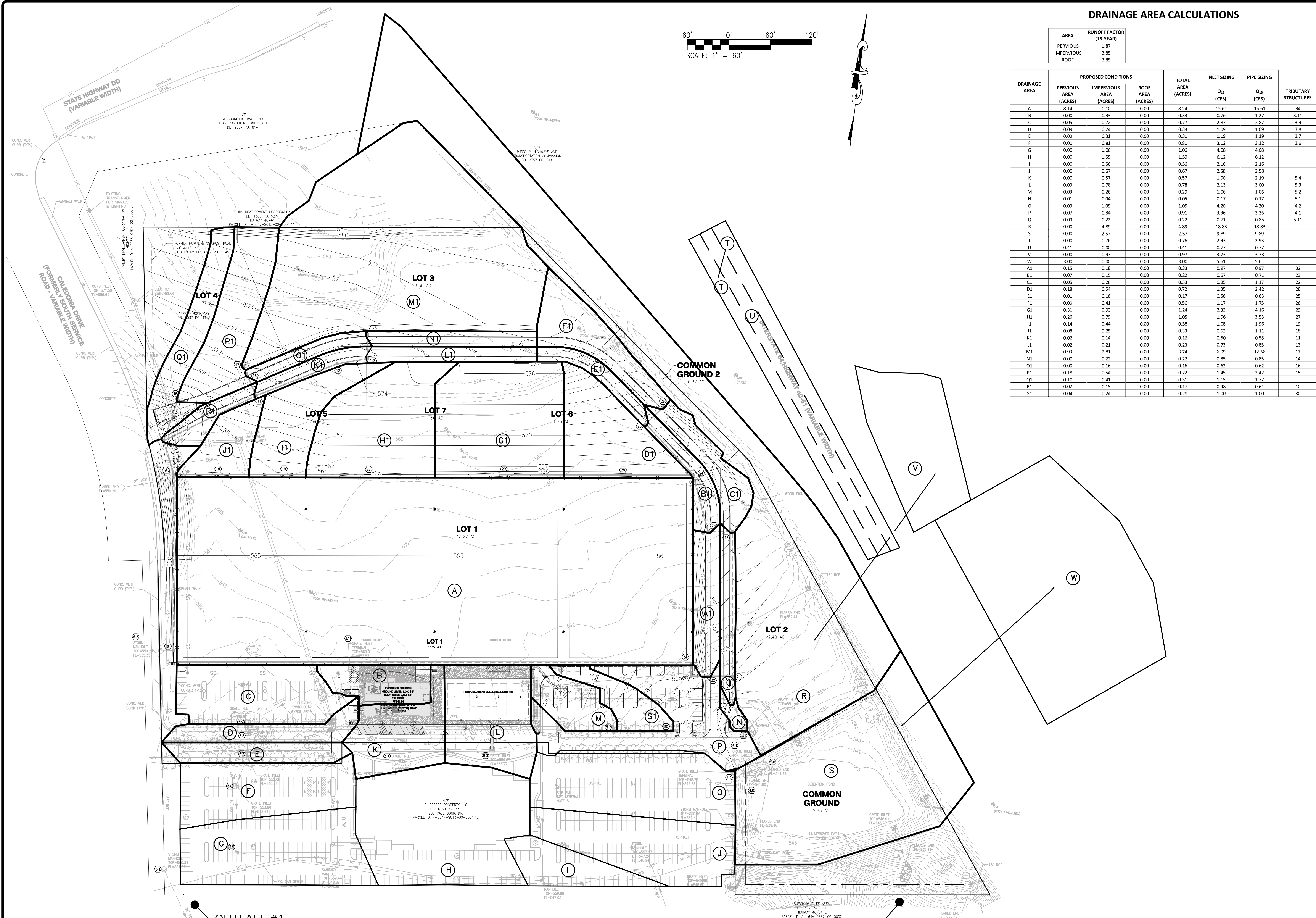
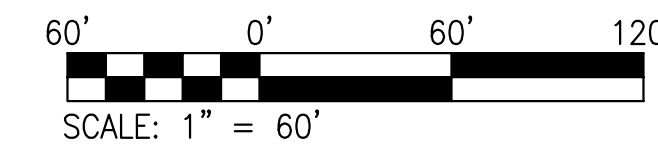


**DRAINAGE AREA CALCULATIONS**

AREA	RUNOFF FACTOR (15-YEAR)
PERVIOUS	1.87
IMPERVIOUS	3.85
ROOF	3.85

DRAINAGE AREA	PROPOSED CONDITIONS			TOTAL AREA (ACRES)	INLET SIZING		PIPE SIZING	TRIBUTARY STRUCTURES
	PERVIOUS AREA (ACRES)	IMPERVIOUS AREA (ACRES)	ROOF AREA (ACRES)		Q <sub>s</sub> (CFS)	Q <sub>s</sub> (CFS)		
A	8.14	0.10	0.00	8.24	15.61	15.61	34	
B	0.00	0.33	0.00	0.33	0.76	1.27	3.11	
C	0.05	0.72	0.00	0.77	2.87	2.87	3.9	
D	0.09	0.24	0.00	0.33	1.09	1.09	3.8	
E	0.00	0.31	0.00	0.31	1.19	1.19	3.7	
F	0.00	0.81	0.00	0.81	3.12	3.12	3.6	
G	0.00	1.06	0.00	1.06	4.08	4.08	5.4	
H	0.00	1.59	0.00	1.59	6.12	6.12	8.1	
I	0.00	0.56	0.00	0.56	2.16	2.16	2.8	
J	0.00	0.67	0.00	0.67	2.58	2.58	3.4	
K	0.00	0.57	0.00	0.57	1.90	2.19	2.9	
L	0.00	0.78	0.00	0.78	2.13	3.00	4.0	
M	0.03	0.26	0.00	0.29	1.06	1.06	1.4	
N	0.01	0.04	0.00	0.05	0.17	0.17	0.2	
O	0.00	1.09	0.00	1.09	4.20	4.20	5.6	
P	0.07	0.84	0.00	0.91	3.36	3.36	4.4	
Q	0.00	0.22	0.00	0.22	0.71	0.85	1.1	
R	0.00	4.89	0.00	4.89	18.83	18.83	25.1	
S	0.00	2.57	0.00	2.57	9.89	9.89	13.1	
T	0.00	0.76	0.00	0.76	2.93	2.93	3.9	
U	0.41	0.00	0.00	0.41	0.77	0.77	1.0	
V	0.00	0.97	0.00	0.97	3.73	3.73	4.9	
W	3.00	0.00	0.00	3.00	5.61	5.61	7.4	
A1	0.15	0.18	0.00	0.33	0.97	0.97	1.3	
B1	0.07	0.15	0.00	0.22	0.67	0.71	0.9	
C1	0.05	0.28	0.00	0.33	0.85	1.17	1.5	
D1	0.18	0.54	0.00	0.72	1.35	2.42	3.2	
E1	0.01	0.16	0.00	0.17	0.56	0.63	0.8	
F1	0.09	0.41	0.00	0.50	1.17	1.75	2.3	
G1	0.31	0.99	0.00	1.24	2.32	4.16	5.5	
H1	0.26	0.79	0.00	1.05	1.96	3.53	4.7	
I1	0.14	0.44	0.00	0.58	1.08	1.96	2.6	
J1	0.08	0.25	0.00	0.33	0.62	1.11	1.5	
K1	0.02	0.14	0.00	0.16	0.50	0.58	0.8	
L1	0.02	0.21	0.00	0.23	0.73	0.85	1.1	
M1	0.93	2.81	0.00	3.74	6.99	12.56	16.7	
N1	0.00	0.22	0.00	0.22	0.85	0.85	1.1	
O1	0.00	0.16	0.00	0.16	0.62	0.62	0.8	
P1	0.18	0.54	0.00	0.72	1.45	2.42	3.2	
Q1	0.10	0.41	0.00	0.51	1.15	1.77	2.3	
R1	0.02	0.15	0.00	0.17	0.48	0.61	0.8	
S1	0.04	0.24	0.00	0.28	1.00	1.00	1.3	



OUTFALL #1

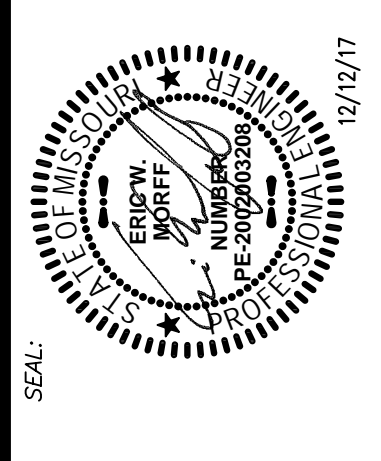
OUTFALL #2

**THIS SHEET IS FOR DRAINAGE CALCULATION PURPOSES ONLY AND NOT TO BE USED AS CONSTRUCTION PLANS**

USER: Eric North TAB: DAM  
 DATE: December 12, 2017  
 DRAWING: S:\JOBS\16-0042\16-0042-000A\16-0042-000A.dwg  
 1:49:46 PM  
 12/12/17

NO	REVISION DESCRIPTION	DATE
1 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
2 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
3 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
4 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
5 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
6 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
7 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
8 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
9 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
10 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
11 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
12 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
13 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
14 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
15 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
16 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
17 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
18 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
19 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
20 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
21 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
22 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
23 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
24 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
25 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
26 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
27 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
28 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
29 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17
30 <td>CITY COMMENTS</td> <td>12/06/17</td>	CITY COMMENTS	12/06/17

DEVELOPER/OWNER:  
**40 DD SPORTS, LLC**  
**1 ASPEN CIRCLE DRIVE**  
**MINNEAPOLIS, MN 55425**  
**612-339-0621**



MISSOURI RUSH SOCCER COMPLEX  
 CLUBHOUSE ADDITION  
 901 CALEDONIA DRIVE  
 OFALLON, MO 63366  
**DRAINAGE AREA MAP**

+ ST. LOUIS  
 1515 17th Street  
 Suite 100  
 St. Louis, MO 63103  
 314.984.9887 tel  
 www.colestl.com  
**COLE**  
 CIVIL ENGINEERING / SURVEYING / PLANNING / LANDSCAPE ARCHITECTURE  
Cole & Associates, Inc. is a Missouri Corporation. Cole Design Group, Inc. is a Missouri & Texas limited liability company.

DESIGN/CALC BY: BSJ  
 DRAWN BY: BSJ  
 CHECKED BY: EWM  
 DRAWING SCALE: AS SHOWN  
 DATE: 09/07/17  
 Job Number: 16-0042-A  
 Sheet Number: C7.0