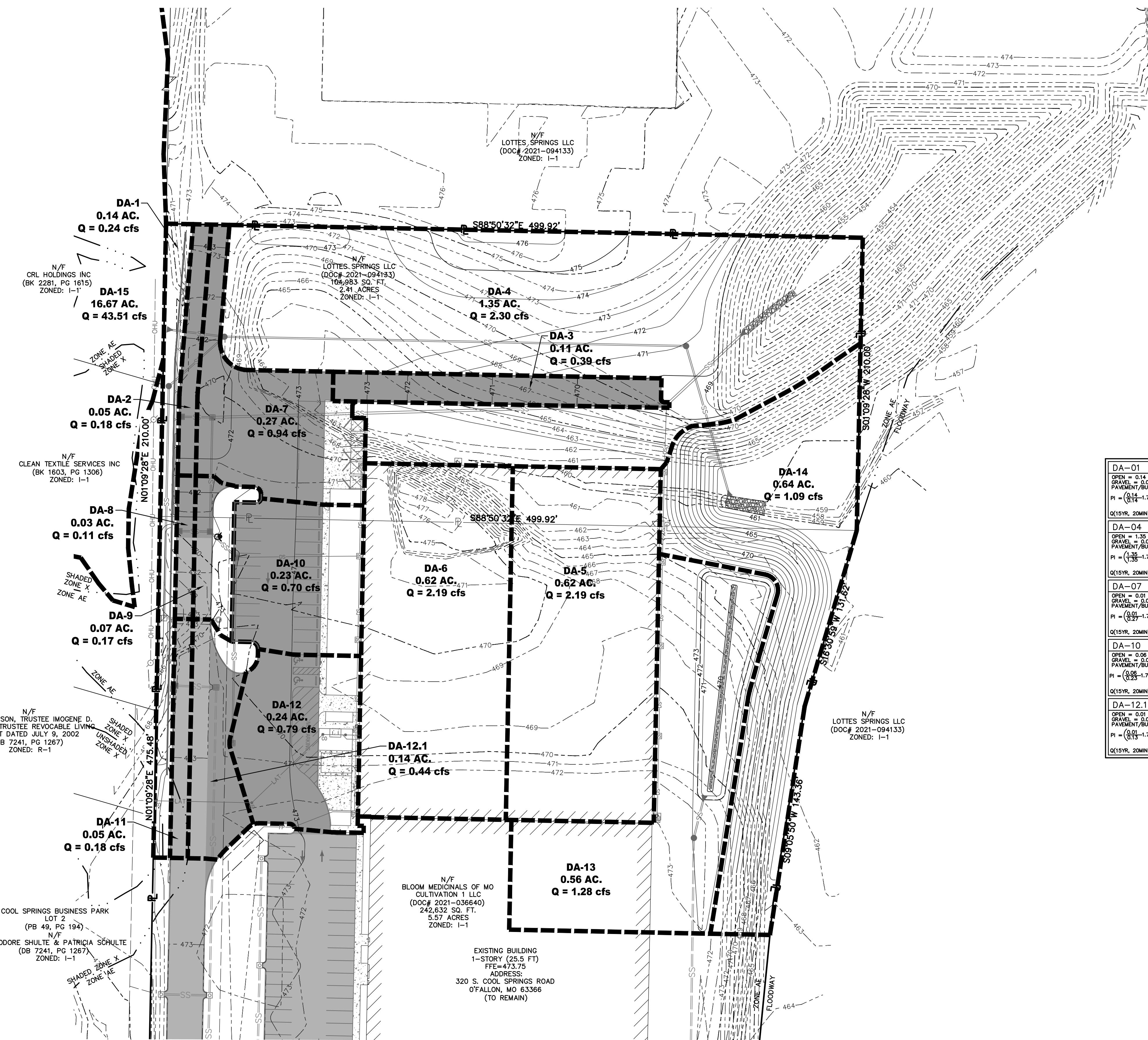


PROPOSED DRAINAGE AREA MAP



C3 INDUSTRIES
C3

SCALE: 1"=40'
SEPTEMBER 2022

INDUSTRIES
C3



Cochran
Engineering
Architecture
Site Development
General Consulting
Master Planning

Missouri State Certificate
of Authority Number: 2010000046
Cochran Project No. M20-8003C



Michael L. Hackmeister
Registered Professional Engineer
State of Missouri
for Cochran Engineering & Surveying

ALL AREAS	
PI VALUE OPEN = 1.70	
PI VALUE GRAVEL = 3.36	
DA-01	PI VALUE PAVEMENT/BUILDING = 3.54
OPEN = 0.14 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.00 ACRES PI = $(0.14 - 1.70) / (0.14 - 3.36) = 0.00 / (-2.26) = 0.00$	DA-02 OPEN = 0.00 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.05 ACRES PI = $(0.00 - 1.70) / (0.00 - 3.36) = 0.00 / (-2.66) = 0.00$
Q(15YR, 20MIN) = API = $(0.14)(1.70) = 0.24$	DA-03 OPEN = 0.00 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.11 ACRES PI = $(0.00 - 1.70) / (0.11 - 3.36) = 0.00 / (-2.25) = 0.00$
Q(15YR, 20MIN) = API = $(0.05)(3.54) = 0.18$	DA-04 OPEN = 0.15 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.00 ACRES PI = $(0.15 - 1.70) / (0.15 - 3.36) = 0.00 / (-2.15) = 0.00$
Q(15YR, 20MIN) = API = $(0.04)(3.54) = 0.14$	DA-05 OPEN = 0.00 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.62 ACRES PI = $(0.00 - 1.70) / (0.62 - 3.36) = 0.00 / (-2.74) = 0.00$
Q(15YR, 20MIN) = API = $(0.00)(3.54) = 0.00$	DA-06 OPEN = 0.00 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.82 ACRES PI = $(0.00 - 1.70) / (0.82 - 3.36) = 0.00 / (-2.54) = 0.00$
Q(15YR, 20MIN) = API = $(0.00)(3.54) = 0.00$	DA-07 OPEN = 0.01 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.26 ACRES PI = $(0.01 - 1.70) / (0.26 - 3.36) = 0.00 / (-3.04) = 0.00$
Q(15YR, 20MIN) = API = $(0.02)(3.47) = 0.09$	DA-08 OPEN = 0.00 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.03 ACRES PI = $(0.00 - 1.70) / (0.03 - 3.36) = 0.00 / (-2.33) = 0.00$
Q(15YR, 20MIN) = API = $(0.00)(3.54) = 0.00$	DA-09 OPEN = 0.00 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.03 ACRES PI = $(0.00 - 1.70) / (0.03 - 3.36) = 0.00 / (-2.33) = 0.00$
Q(15YR, 20MIN) = API = $(0.00)(3.54) = 0.00$	DA-10 OPEN = 0.06 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.17 ACRES PI = $(0.06 - 1.70) / (0.17 - 3.36) = 0.00 / (-1.60) = 0.00$
Q(15YR, 20MIN) = API = $(0.02)(3.06) = 0.07$	DA-11 OPEN = 0.00 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.05 ACRES PI = $(0.00 - 1.70) / (0.05 - 3.36) = 0.00 / (-2.66) = 0.00$
Q(15YR, 20MIN) = API = $(0.00)(3.54) = 0.00$	DA-12 OPEN = 0.03 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.21 ACRES PI = $(0.03 - 1.70) / (0.21 - 3.36) = 0.00 / (-2.13) = 0.00$
Q(15YR, 20MIN) = API = $(0.01)(3.54) = 0.03$	DA-13 OPEN = 0.38 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.18 ACRES PI = $(0.38 - 1.70) / (0.18 - 3.36) = 0.00 / (-1.92) = 0.00$
Q(15YR, 20MIN) = API = $(0.13)(3.40) = 0.44$	DA-14 OPEN = 0.64 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 0.00 ACRES PI = $(0.64 - 1.70) / (0.00 - 3.36) = 0.00 / (-2.66) = 0.00$
Q(15YR, 20MIN) = API = $(0.56)(2.29) = 1.28$	DA-15 OPEN = 4.41 ACRES GRAVEL = 0.00 ACRES PAVEMENT/BUILDING = 8.26 ACRES PI = $(4.41 - 1.70) / (8.26 - 3.36) = 0.00 / (4.85) = 0.00$
Q(15YR, 20MIN) = API = $(16.67)(2.61) = 43.51$	

TOTAL PROPOSED FLOWS = 56.70 cfs

Developer Information
BLOOM MEDICINALS OF MO CULTIVATION 1 LLC
2022 SOUTH STATE STREET; ANN ARBOR, MI 48104
(734)-323-1822

Owner Information
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P+Z No. 22-002935

City No.

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