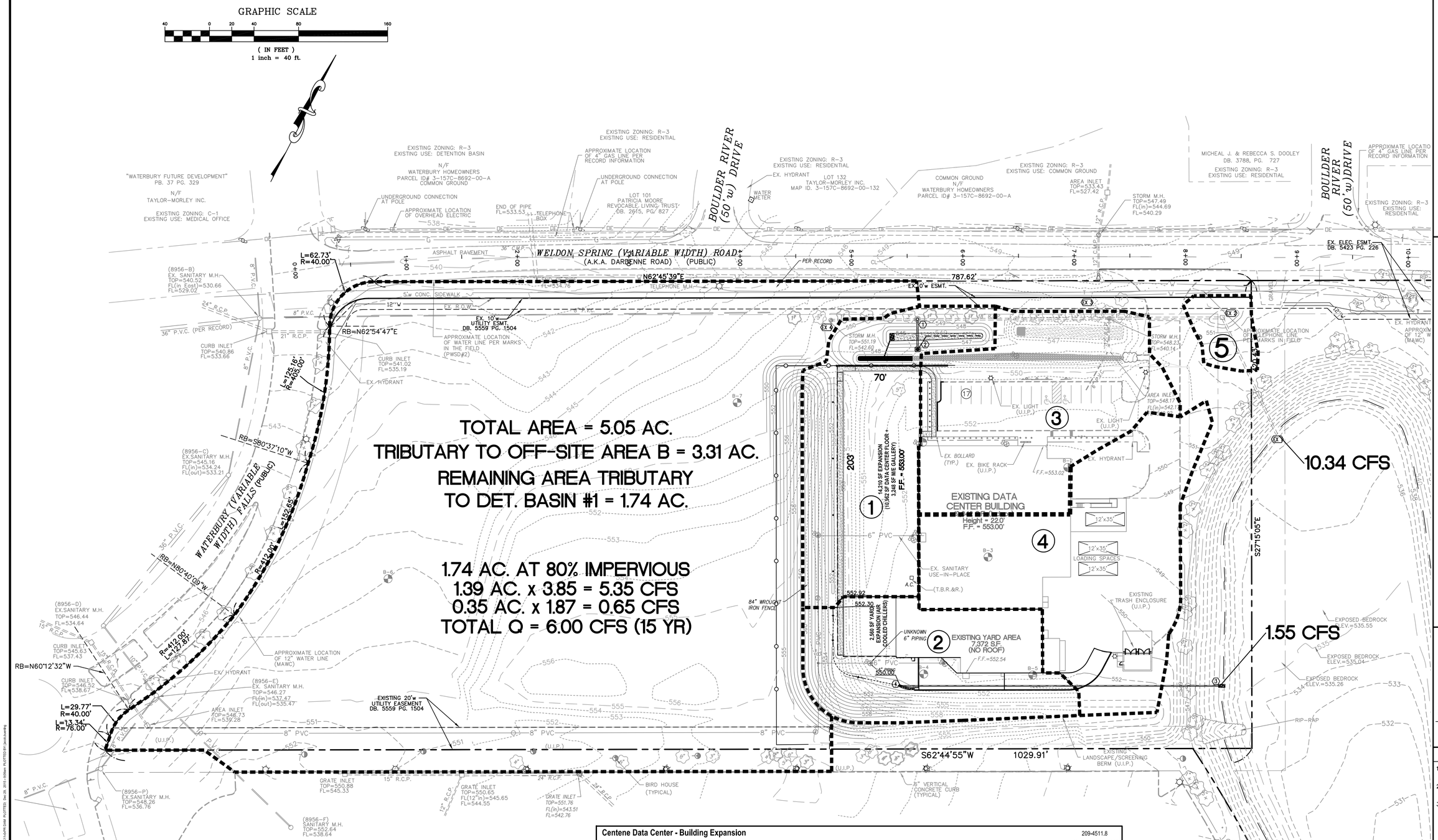

UTILITY NOTE:

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND , THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

Centene Data Center - Building Expansion
STORMWATER RUNOFF CALCULATIONS

209-4511.8
November 13, 2015
REV: December 30, 2015

POST-DEVELOPMENT RUNOFF Tc = 20 min.

Q(15) 5%=1.87; Q(15) 100%(pavement)=3.85; Q(15) 100%=3.85; Q(15) 100%(roof)=3.85

Q(100) 5%=2.95; Q(100) 100%(pavement)=6.08; Q(100) 100%=6.08; Q(100) 100%(roof)=6.08

SUBAREA	AREA (SQ FT) IMPERVIOUS	AREA (SQ FT) PERVIOUS	TOTAL AREA SQ FT	TOTAL AREA AC	Q(15) IMPERVIOUS ACERAGE	Q(15) IMPERVIOUS Q(15)	Q(15) PERVIOUS ACERAGE	Q(15) PERVIOUS Q(15)	Q(15) TOTAL Q(15)	Q(100) IMPERVIOUS ACERAGE	Q(100) IMPERVIOUS Q(100)	Q(100) PERVIOUS ACERAGE	Q(100) PERVIOUS Q(100)	Q(100) TOTAL Q(100)
1	15,316	13,107	28,423	0.65	0.35	1.35	0.30	0.56	1.91	0.35	2.13	0.30	0.89	3.02
2	12,383	10,704	23,087	0.53	0.28	1.08	0.25	0.47	1.55	0.28	1.70	0.25	0.74	2.44
3	20,625	10,925	31,550	0.72	0.47	1.81	0.25	0.47	2.28	0.47	2.86	0.25	0.74	3.60
4	26,799	9,294	36,093	0.83	0.62	2.39	0.21	0.39	2.78	0.62	3.77	0.21	0.62	4.39
5	0	3,685	3,685	0.08	0	0	0.08	0.15	0.15	0	0	0.08	0.24	0.24
				2.81				TOTAL	8.67				TOTAL	13.69

FOR DRAINAGE AREAS ONLY.
NOT FOR CONSTRUCTION.

PREPARED BY:
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IMPROVEMENT PLANS FOR:

CENTENE DATA CENTER BUILDING EXPANSION

6430 WELDON SPRING ROAD
O'FALLON, MISSOURI

STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PE-25116
PROFESSIONAL ENGINEER
12/30/2015

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY NUMBER: 000996

REVISIONS:

1. 2015-12-07 PROGRESS PRINT
2. 2015-12-09 REVISED PER CITY COMMENTS
3. 2015-12-30 REVISED PER CITY & CLIENT COMMENTS

DRAWN BY: J.M.B.	CHECKED BY: G.M.S.
DATE: 11/10/2015	JOB NO: 209-4511.8
DUCKETT CREEK #: P-	BASE MAP #: --
S.C.C. H&T #: -	H&T S.U.P. #: -
M.D.N.R. #: MO-RA07437	

SHEET TITLE:
PROPOSED DRAINAGE AREA MAP

SHEET NO.:
C11.0