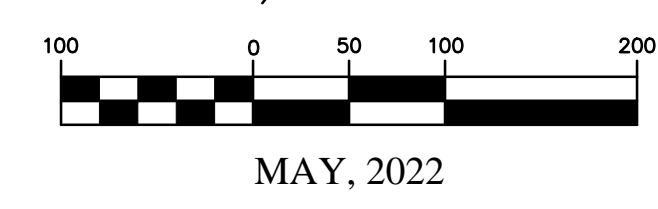


# STORM SEWER DRAINAGE AREA MAP - PHASE 4

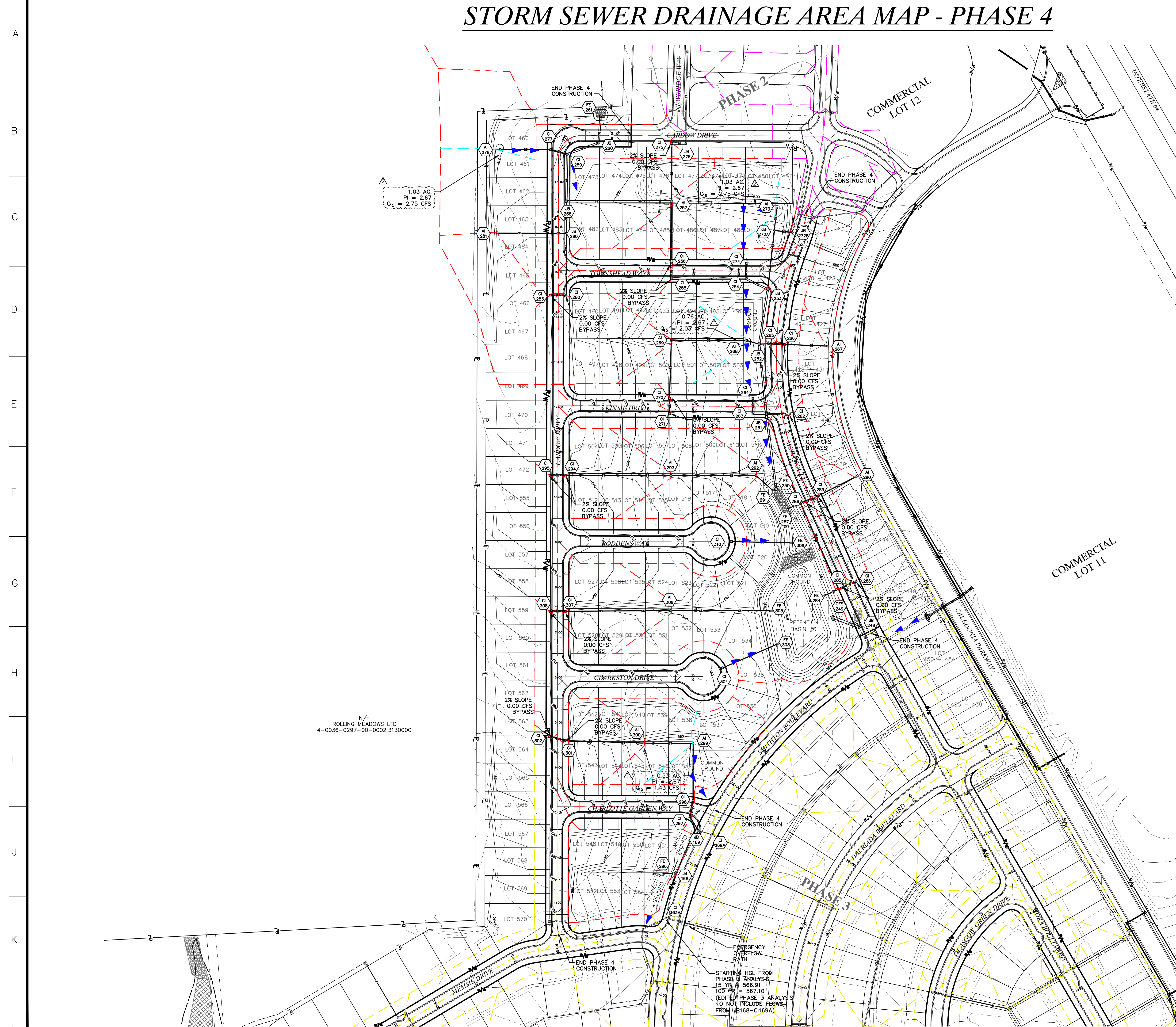


MAY, 2022

Drainage Area	Inlet Number	AREA (AC.)	% IMPERVIOUS	DRAINAGE TABLE					
				15 YEAR - 20 MIN		100 YEAR - 20 MIN			
				P.I. VALUE (CFS/AC.)	RUNOFF (CFS)	P.I. VALUE (CFS/AC.)	RUNOFF (CFS)		
				PREVIOUS PHASES					
CI #169A				0.25	55%	2.67	0.67	3.6	0.90
				PHASE 4					
1	CI #254	0.28	55%	2.67	0.75	3.6	1.01		
2	CI #255	0.28	55%	2.67	0.74	3.6	1.00		
3	CI #256	0.26	55%	2.67	0.71	3.6	0.95		
4	AI #257	0.90	55%	2.67	2.41	3.6	3.24		
5	CI #259	0.55	55%	2.67	1.47	3.6	1.99		
6	FE #261	13.92	55%	2.67	37.17	3.6	50.12		
7	CI #262	0.18	55%	2.67	0.48	3.6	0.64		
8	CI #263	0.28	55%	2.67	0.75	3.6	1.01		
9	CI #264	0.32	55%	2.67	0.85	3.6	1.15		
10	CI #265	0.09	55%	2.67	0.25	3.6	0.33		
11	CI #266	0.34	55%	2.67	0.90	3.6	1.21		
12	AI #267	0.48	55%	2.67	1.28	3.6	1.73		
13	AI #268	1.27	55%	2.67	3.38	3.6	4.56		
14	AI #269	0.63	55%	2.67	1.69	3.6	2.28		
15	CI #270	0.26	55%	2.67	0.69	3.6	0.93		
16	CI #271	0.26	55%	2.67	0.70	3.6	0.94		
17	JB #272B	1.31	65%	2.88	4.25	3.88	5.73		
18	AI #273	1.30	55%	2.67	3.47	3.6	4.68		
19	CI #274	0.35	55%	2.67	0.94	3.6	1.27		
20	CI #275	0.24	65%	2.88	0.69	3.88	0.93		
21	JB #276	4.61	65%	2.88	14.00	3.88	18.86		
22	CI #277	0.62	55%	2.67	1.66	3.6	2.24		
23	AI #278	1.82	55%	2.67	4.85	3.6	6.54		
24	AI #281	1.00	55%	2.67	2.66	3.6	3.59		
25	CI #282	0.22	55%	2.67	0.58	3.6	0.78		
26	CI #283	0.22	55%	2.67	0.58	3.6	0.78		
27	CI #285	0.13	55%	2.67	0.34	3.6	0.46		
28	CI #286	0.25	55%	2.67	0.65	3.6	0.88		
29	CI #288	0.13	55%	2.67	0.33	3.6	0.45		
30	CI #289	0.22	55%	2.67	0.58	3.6	0.78		
31	AI #290	0.55	55%	2.67	1.46	3.6	1.97		
32	AI #292	0.90	55%	2.67	2.40	3.6	3.24		
33	AI #293	0.64	55%	2.67	1.71	3.6	2.30		
34	CI #294	0.14	55%	2.67	0.37	3.6	0.50		
35	CI #295	0.22	55%	2.67	0.59	3.6	0.80		
36	FE #296	0.94	55%	2.67	2.51	3.6	3.39		
37	CI #297	0.32	55%	2.67	0.85	3.6	1.15		
38	CI #298	0.44	55%	2.67	1.17	3.6	1.58		
39	AI #299	1.13	55%	2.67	3.02	3.6	4.07		
40	AI #300	0.43	55%	2.67	1.16	3.6	1.56		
41	CI #301	0.13	55%	2.67	0.35	3.6	0.47		
42	CI #302	0.32	55%	2.67	0.87	3.6	1.17		
43	CI #304	1.11	55%	2.67	2.97	3.6	4.01		
44	AI #306	0.69	55%	2.67	1.85	3.6	2.49		
45	CI #307	0.14	55%	2.67	0.38	3.6	0.51		
46	CI #308	0.35	55%	2.67	0.93	3.6	1.25		
47	CI #310	1.15	55%	2.67	3.08	3.6	4.15		
48	Basin #6	3.03	55%	2.67	8.10	3.6	10.92		

Percent Impervious	20 MIN DURATION	
	15 YEAR	100 YEAR
5%	1.70	2.29
10%	1.79	2.42
15%	1.89	2.54
20%	2.00	2.70
25%	2.09	2.82
30%	2.19	2.95
35%	2.28	3.07
40%	2.39	3.22
45%	2.48	3.35
50%	2.58	3.47
55%	2.67	3.60
60%	2.76	3.72
65%	2.88	3.88
70%	2.97	4.00
75%	3.06	4.12
80%	3.15	4.25
85%	3.24	4.37
90%	3.36	4.53
95%	3.45	4.65
100%	3.54	4.77

RETENTION BASIN #6  
 100 YR BLOCKED HWL = 582.85  
 100 YR HWL = 582.49  
 25 YR = 582.01  
 15 YR = 581.73  
 2 YR = 580.19  
 NORMAL POOL = 578.00  
 BOTTOM = 567.00



N/F  
 ROLLING MEADOWS LTD  
 4-0036-0297-00-0002.3130000

STARTING HGL FROM  
 PHASE 3 ANALYSIS  
 15 YR = 586.91  
 100 YR = 567.10  
 (EDITED PHASE 3 ANALYSIS  
 TO INCLUDE FLOODING  
 FROM #B168-CH169A)

OWNER/DEVELOPER:  
 DD LAND DEVELOPMENT, LLC  
 10407 BAUR BLVD, SUITE B  
 ST. LOUIS, MO 63132

636-594-0540 (tel.)  
 636-594-0512 (fax)  
 mail@ochran.com  
 530A E. Independence Dr.  
 Union, Missouri 63084

**CHORAN**  
 Civil Engineering  
 Land Surveying  
 Architecture  
 Site Development  
 General Consulting  
 Master Planning

Missouri State Certificate  
 of Authority Numbers:  
 Survey: 000380  
 Engineering: 001655  
 Architecture: 2002014240

Three working days prior to  
 the start of any excavation,  
 call 1-800-UGC-RTTE for utility  
 location information.

All OSHA rules & regulations  
 construction required by these  
 plans shall be strictly followed  
 (ie. trenching, blasting, etc.)

STATE OF MISSOURI  
 TIMOTHY SCHOWE  
 PROFESSIONAL ENGINEER  
 NUMBER  
 PE-201800268  
 7-15-22

THE STREETS OF CALEDONIA  
 PHASE 4 RESIDENTIAL  
 O'FALLON, MISSOURI

STORM SEWER DRAINAGE AREA MAP - PHASE 4  
 DATE: 08-22-22  
 REVISION: 07-13-22  
 CITY COMMENTS: SITE CHANGE DIRECTIVE #1

DESIGN BY: JMM  
 APPROVED BY: ERR

DATE: MAY 09, 2022  
 SCALE: 1" = 100'

PROJ. NO.: 17-6821  
 DRWG. NO.: C8.02

Drawing name: E:\17-6821 - 860 Acre Tract along Hwy 40, O'Fallon, MO\AutoCad Drawings\6821 - Plan Sheets\Construction Drawings\PH4 Residential\Storm Sewer Drainage Area Map Phase 4.dwg Tab: STORM OVERVIEW PH4 Plotted on: Jul 13, 2022 - 12:58pm Plotted by: jmeyer