



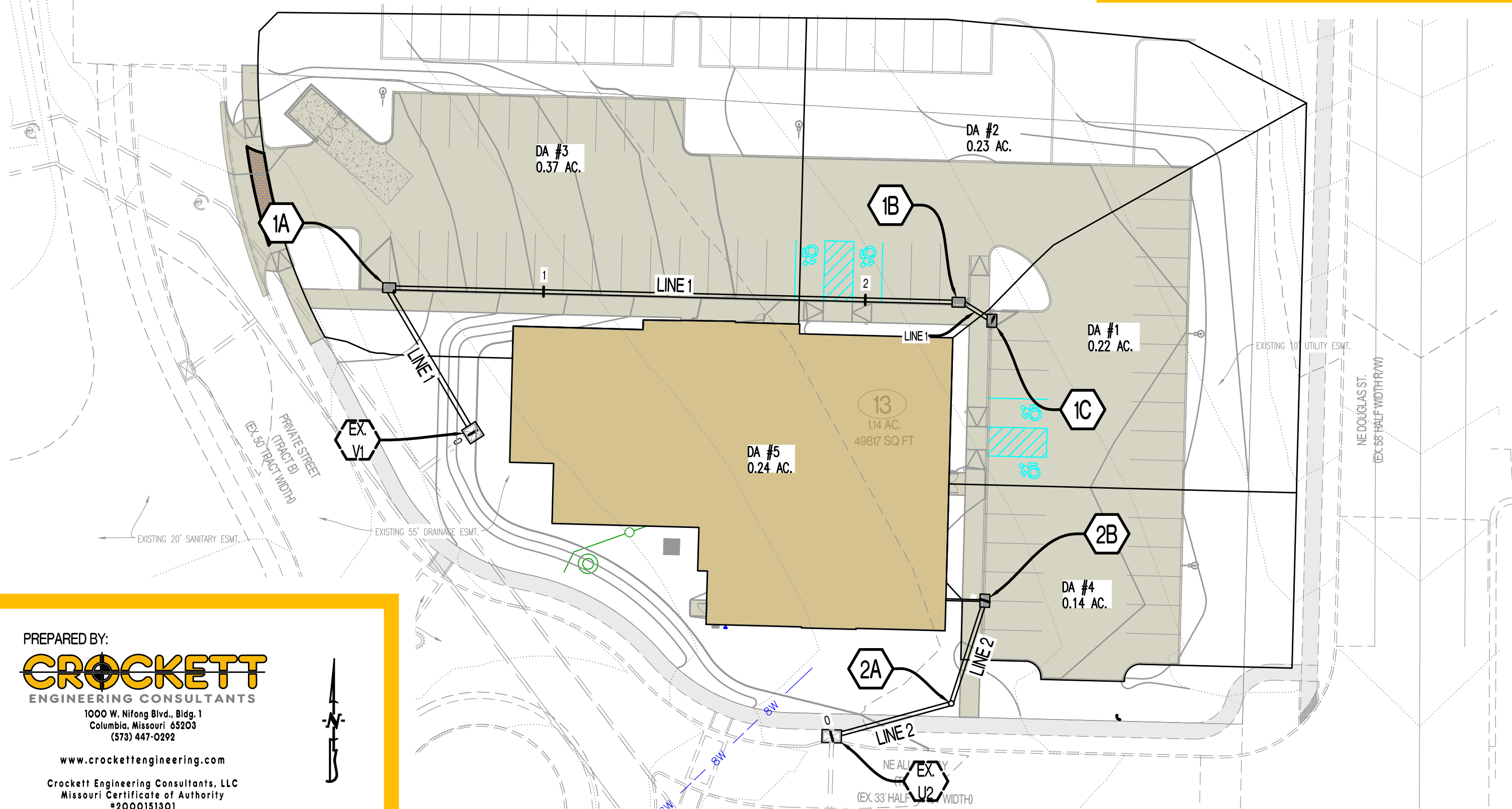
STORM WATER CALCULATIONS
FOR
The Village at Discovery Park
Lot 13

PROJECT NO.
230286



April 08, 2025

THE VILLAGE AT DISCOVERY PARK
LOT 13
DRAINAGE AREA MAP
SCALE: 1" = 30'



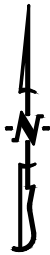
PREPARED BY:

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Missouri Certificate of Authority
#2000151301



[illegible]

STORM DRAIN PIPE SIZE												
DESCRIPTION		STORM DRAIN HYDRAULICS										NOTES
AREA NO.	UPSTREAM STRUCTURE LABEL	TIME OF CONCENTRATION	CA		RAINFALL INTENSITY	RUNOFF	STORM DRAIN SLOPE	STORM DRAIN DIAMETER	STORM DRAIN MATERIAL	CAPACITY FLOWING FULL	VELOCITY FLOWING FULL	
			ADDED	CUMUL					RCP, CMP, PVC OR HDPE			
		min	acres	acres	in/hr	cfs	ft/ft	in		cfs	fps	
LINE 1												
1	1C	<5		0.20	8.53	1.67	0.010	12	HDPE	3.86	4.91	
2	1B	<5	0.20	0.40	8.53	3.42	0.020	12	HDPE	5.46	6.95	
3	1A	<5	0.33	0.73	8.53	6.23	0.020	15	HDPE	9.89	8.06	
LINE 2												
5+4	2B	<5		0.36	8.53	3.06	0.010	12	HDPE	3.86	4.91	

[illegible]



PROJECT: The Village at Discovery Park - Lot 13

CALCULATED BY: NMD CHECKED BY: NTE

DATE: 4/8/25 PROJECT NO: 230286

STORM DRAIN PIPE SIZE												
DESCRIPTION		STORM DRAIN HYDRAULICS										NOTES
AREA NO.	UPSTREAM STRUCTURE LABEL	TIME OF CONCENTRATION	CA		RAINFALL INTENSITY	RUNOFF	STORM DRAIN SLOPE	STORM DRAIN DIAMETER	STORM DRAIN MATERIAL	CAPACITY FLOWING FULL	VELOCITY FLOWING FULL	
			ADDED	CUMUL					RCP, CMP, PVC OR HDPE			
		min	acres	acres	in/hr	cfs	ft/ft	in		cfs	fps	
LINE 1												
1	1C	<5		0.22	10.32	2.25	0.010	12	HDPE	3.86	4.91	
2	1B	<5	0.23	0.45	10.32	4.60	0.020	12	HDPE	5.46	6.95	
3	1A	<5	0.37	0.81	10.32	8.38	0.020	15	HDPE	9.89	8.06	
LINE 2												
5+4	2B	<5		0.37	10.32	3.82	0.010	12	HDPE	3.86	4.91	