

xisting Ru ypass	noff	E	ea # EX1 22	(sf) 725126 39350	(acres) 16.65 0.90	Coefficient 0.35 0.50	(min) 20 10	(in/ 4. 6.	9	(cfs) 28.5 2.8			
	, I	Post-F	Project R	unoff Calcu		D		Allowed F		25.8			
		Area # 1-7,19-21		Area (sf) 875608	Area (acres) 20.10	Runoff Coefficient 0.50	Tc - Existing (min) 10	Rainfall Intensity (in/hr) 6.1		Q - Post Development     Difference between Pre and       (cfs)     Post Development Conditions       61.3     Post Development Conditions			
			ar Storm roject Ri	unoff Calcul	ations					61.3 35.5			
xisting Ru		Area # f EX1		Area (sf) 725126	Area (acres) 16.65	Runoff Coefficient 0.35	Tc - Existing (min) 20	Rainfall Intensity (in/hr) 5.9		Q - Undeveloped (cfs) 34.4			
ypass		22		39350	0.90	0.50	10	Allowed F	1	34.4 3.2 <b>31.2</b>			
	[	Post-Project Area # 1-7,19-21 25-Year Storr		Area (sf)	Area (acres)	Runoff Coefficient 0.50	Tc - Existing (min) 10	Rainfall Intensity (in/hr) 7.1		Q - Post Development Difference between Pre and (cfs) Post Development Condition			
	[			875608	20.10					71.4 <b>71.4</b>		40.2	
		Pre-P		Area Area (sf) (acres)		Runoff Coefficient	Tc - Existing	Rainfall I		Q - Undevelo (cfs)	ped		
xisting Runoff ypass		EX1 22		725126 39350	16.65 0.90	0.35 0.50	(min) 20 10	(in/ 6. 8.	6 3	38.5 3.7			
		Area # 1-7,19-21 100-Year Stor		875608 m unoff Calculat	lations Area	Runoff Coefficient 0.50	Tc - Existing (min) 10	(in/hr) 8.3		34.7   Q - Post Development (cfs) Difference between Pre and Post Development Conditions   83.4 48.7			
					(acres) 20.10								
xisting Runoff		Area # EX1		Area (sf) 725126	Area (acres) 16.65	Runoff Coefficient 0.35	Tc - Existing (min) 20	Rainfall Intensity (in/hr) 8.3		Q - Undevelo (cfs) 48.4	ped		
ypass		22 Post-Project		39350 0.90		0.50	10	9.8 Allowed Release=		4.4 43.9			
		Ar	ea #	Area (sf)	Area (acres)	Runoff Coefficient 0.50	Tc - Existing (min)	Rainfall I (in/	'hr)	(cfs)	opment Difference between Pre and Post Development Condition		
TENTION			19-21	875608	20.10	0.00	10	9.	-	98.5 98.5	]	54.6	
Storm Duration	Out		CALCUL Area (AC.)	ATIONS - 5 Future "C"		e Future "CA"	Rainfall intensity	Inflow (cfs)	Inflow Volume (cubic ft.)	Outflow Volume (cubic ft.)	Volume (cubic ft.)	Volume (acre-ft.)	Outflow (cfs)
10 20	20		20.10 20.10		1.00	10.05	6.10 4.90	61.3 49.2	36785 59098	14092 21138	22693 37959	0.52 0.87	23.5 23.5
30 40 50	4) 5) 6)	0 0	20.10 20.10 20.10	0.50	1.00 1.00 1.00	10.05 10.05 10.05	4.10 3.40 2.80	41.2 34.2 28.1	74173 82013 84425	28184 35230 42276	45989 46783 42149	1.06 1.07 0.97	23.5 23.5 23.5
60 70	7) 8(	0 0	20.10 20.10	0.50 0.50	1.00 1.00	10.05 10.05	2.60 2.40	26.1 24.1	94074 101310	49322 56369	44751 44941	1.03 1.03	23.5 23.5
80 90 100	90 10 11	0	20.10 20.10 20.10	0.50	1.00 1.00 1.00	10.05 10.05 10.05	2.30 2.10 1.90	23.1 21.1 19.1	110959 113974 114577	63415 70461 77507	47544 43513 37070	1.09 1.00 0.85	23.5 23.5 23.5
110	12	:0	20.10	0.50	1.00	10.05	1.80	18.1 Ma	119401 ximum Stora	84553 ge Required=	34848 47544	<b>0.80</b> cf	23.5
<b>TENTION</b> Storm	I STO Out		CALCUL Area	ATIONS - 10 Future	1	e Future	Rainfall	Inflow	Inflow Volume	Outflow Volume	Volume	Volume	Outflow
Ouration 10	Dura	ation	(AC.)	"C"	"Kf"	"CA"	intensity	(cfs)	(cubic ft.)	(cubic ft.)	(cubic ft.)	(acre-ft.)	(cfs)
20 30		2020.103020.104020.10		0.50	1.00 1.00 1.00	10.05 10.05 10.05	7.10 5.90 4.80	71.4 59.3 48.2	42816 71158 86837	16159 24239 32319	26656 46919 54519	0.61 1.08 1.25	26.9 26.9 26.9
50 0		5020.105020.107020.10		0.50	1.00 1.00 1.00	10.05 10.05 10.05	4.00 3.50 3.00	40.2 35.2 30.2	96486 105531 108546	40398 48478 56558	56088 57053 51989	1.29 1.31 1.19	26.9 26.9 26.9
80		8020.109020.1010020.10		0.50	1.00 1.00 1.00	10.05 10.05 10.05	2.80 2.60 2.50	28.1 26.1 25.1	118195 125431 135683	64637 72717 80796	53558 52715 54887	1.23 1.21 1.26	26.9 26.9 26.9
100 110	10 11 12	0	20.10 20.10 20.10	0.50	1.00 1.00	10.05 10.05	2.40 2.30	24.1 23.1	144729 152568	88876 96956	55853 55612	1.28 1.28	26.9 26.9
				ATIONS - 2					Inflow	ge Required= Outflow		cf	
Storm Duration	Out Dura	flow ation	Area (AC.)	Future "C"	E Future "Kf"	E Future "CA"	Rainfall intensity	Inflow (cfs)	Volume (cubic ft.)	Volume (cubic ft.)	Volume (cubic ft.)	Volume (acre-ft.)	Outflow (cfs)
10 20 30	20 30 40	0	20.10 20.10 20.10	0.50	1.00 1.00 1.00	10.05 10.05 10.05	8.30 6.60 5.50	83.4 66.3 55.3	50052 79601 99501	17947 26920 35894	32105 52680 63607	0.74 1.21 1.46	29.9 29.9 29.9
40 5 50 6		0 0	20.10 20.10	0.50	1.00 1.00	10.05 10.05	4.60 4.00	46.2 40.2	110959 120607	44867 53841	66091 66766	1.52 1.53	29.9 29.9
70 8 80 9		0 0 0	20.10 20.10 20.10	0.50 0.50	1.00 1.00 1.00	10.05 10.05 10.05	3.50 3.30 3.10	35.2 33.2 31.2	126638 139301 149553	62814 71788 80761	63823 67513 68792	1.47 1.55 1.58	29.9 29.9 29.9
90 100 110	10 11 12	0	20.10 20.10 20.10	0.50	1.00 1.00 1.00	10.05 10.05 10.05	2.90 2.70 2.50	29.1 27.1 25.1	157392 162820 165835	89735 98708 107682	67658 64111 58153	1.55 1.47 1.34	29.9 29.9 29.9
TENTION	ISTO	RAGE		ATIONS - 1	)0 Year			Ma	ximum Stora	ge Required=	68792	cf	
Storm Duration	Out		Area (AC.)	Future "C"	1	e Future "CA"	Rainfall intensity	Inflow (cfs)	Volume (cubic ft.)	Volume (cubic ft.)	Volume (cubic ft.)	Volume (acre-ft.)	Outflow (cfs)
10 20	20	0	20.10 20.10	0.50	1.00 1.00	10.05 10.05	9.80 8.30	98.5 83.4	59098 100104	23368 35052	35729 65052	0.82 1.49	38.9 38.9
30 40 50	40 50 60	0 0	20.10 20.10 20.10	0.50	1.00 1.00 1.00	10.05 10.05 10.05	6.90 5.80 5.00	69.3 58.3 50.3	124828 139904 150759	46736 58421 70105	78092 81484 80654	1.79 1.87 1.85	38.9 38.9 38.9
60 70	7) 8(	0 0	20.10 20.10	0.50 0.50	1.00 1.00	10.05 10.05	4.50 4.00	45.2 40.2	162820 168850	81789 93473	81031 75377	1.86 1.73	38.9 38.9
80 90 100	90 10 11	0 0	20.10 20.10 20.10	0.50 0.50	1.00 1.00 1.00	10.05 10.05 10.05	3.70 3.50 3.40	37.2 35.2 34.2	178499 189956 205032	105157 116841 128525	73342 73115 76507	1.68 1.68 1.76	38.9 38.9 38.9
110	12		20.10		1.00	10.05	3.20	32.2	212269	140209 ge Required=	72059 81484	<b>1.65</b> cf	38.9
		г	Elevatio	on-Storage									
		VolumeElevation(cf)530.50											
		532 25		790 255 457	54	<b></b>		_					
		534     68483       535     93969       536     122269				CORWIN ENGINEERING, INC. 200 W. BELMONT, SUITE E							
536 122269						ALLEN, TEXAS 75013 (972)396-1200 TBPE FIRM <b>*</b> 5951							
										OPMENT			
AWING 2024									QUA	AIL H Phas		) VV	
レロノチ									RO	CKWALI	., TEXAS	5	

DRAWN BY DESIGNED BY CHECKED BY SHEET NO. 35 JOB NUMBER DATE SCALE: 1''**-**30' 22036 FEBRUARY 2023

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02/22/2023