And passes and the second of t		The second secon	**************************************		***************************************						
Statement of the Control of the Cont	MO	DIFIED RATION				ATIONS- Dete		D	<u> </u>		-
- Constant of the Constant of			(10ac.	School Site	lt 9.3 ac. Sha	et flow from s	subdivision)				
			Existina					Б			
		indexes and the second of the		anima - anata mana anata manana ana anata an		Detained	A Soul copy and the property and anomatory warm 1875 have made the street with	Proposed			
Return Period	Existing Area	Te	4 222	C	Q _{eniet}	Area	Te	*	C		
100	19.30	20	8.30	0.35	56.07	19.30	10	9.80	0.60	Q _y 113.5	
Modified Ration	d Calculations					107		The state of the s	January Control of the Control of th		terroren en e
Return Period	100										
Q allow	56.07										
T _c prop (min)	10										
***		, , , , , , , , , , , , , , , , , , ,		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU			3101-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				operation scott
T _d (min)	! (in/hr)	CA .	Q _p (cfs)	Vol = (ft)	Vol _{out} (ff)	Total Starage		Example	e (40 min)		
10	9.8	11.580	183.48	68090	33640	34451					
<u>20</u> 30	8.3	11.580	96.11	115337	50460		Inflow Volume	= Td*Qp*60			
	6.82	11.580	78.98	142156	67280	74876			$= 40min^{4}$	67.16cfs*60sec/min	
40	5.8	11.580	67.16	161194	84100	77094			$^{3} = 161,194$	ł ft	
50	5	11.580	57.90	173700	100920	72780	Dutflow Volum	e = 0.5 ° (Td+	Tc)*Qallow*60		
60	4,44	11.580	51.42	185095	117740	67355		-		*(40+10)min*56.07cfs*60sec/min	
70	3.98	11.580	46.09	193571	134560	59012			$^{3} = 84,1$		
80	3.62	11.580	41.92	201214	151380	49835	Storage Volum	e = Inflow Vo			
90	3.32	11.580	38.45	207606	168200	39407			ates	94 ft - 84,100 ft	
		W							³ = 77,09		
	***************************************					Manus			4		
							. Britistical Ciffere	nce is due to rou	Resig		
CITIC PRODUCTION OF THE PERSON	The state of the s	P							w desirable and the second		

Detention Pond A

Pond Storage Volume Required = 77,094 cubic feet

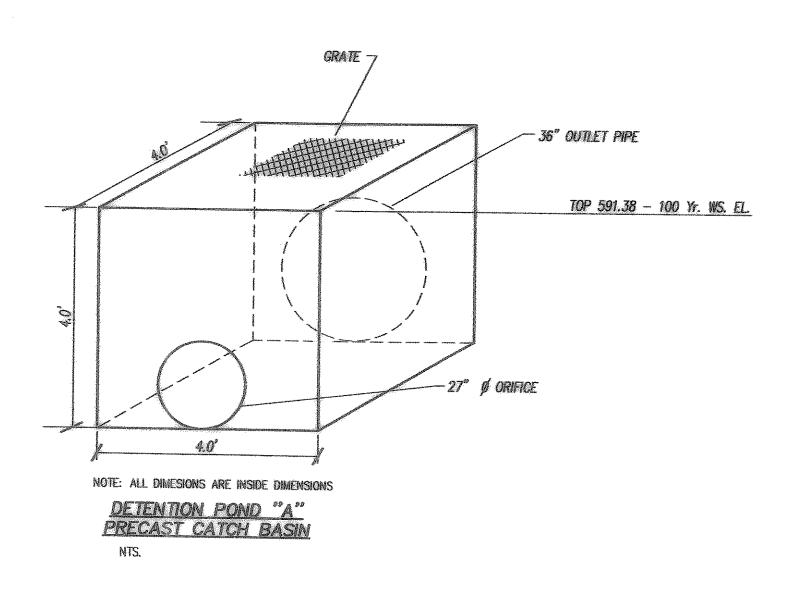
Pond Storage Volume Provided = 108,252 cubic feet

		Average		
Elevation	Area (ft2)	Area (ft2)	Incremental Storage (ft3	
587	0	0	0	0
587,5	486	243	121.5	121.5
588	5507	2996.5	1498.25	1619.75
589	10858	8182.5	8182.5	9802.25
590	23294	17076	17076	26878.25
591	5 9530	31412	31412	58290.25
592	60393	49961.5	49961.5	108251.75

			A Summary	chtpteriolementerionen en
		Ke	guired	
Return Period (yrs)	Q _{Allow} (cfs)	Storage (ft ³)	Min. Pond Elevation (ft)	Q _{released} at Min. Pond Elev. (cfs)
10	39.11	52501	590.82	34.8
25	44.85	61397	591.06	41.6
50	49,99	69538	591.22	47.8
100	56.07	77094	591.38	55.05

Dalendon Pond B

	Y-1000	The second secon		a caranga	n PONE D					
		MODIFI	ED RATIONAL I Existing	METHOD DETE	NTON VOLUM	E CALCULATION	VS	Proposed	Annual Philade our management	
Return Period 100	Existing Area 27.00	T c 20	8.30	c 0.35	9 adds 78.44	Detained Area 27.00	C C C C C C C C C C C C C C C C C C C	i 9.80	c 0.50	Q _p 132.3
Modified Ration Return Period Q _{allow} T _c prop (min)	al Calculations 100 78.44 10	ndet de skolor forske med en diktor forske på træske skolor skolor								
T _d (min) 10	l (in/hr)	ÇĄ.	Q _p (efs)	Vol _{ia} (fč)	Vol out (ft)	Total Storage		Example	(80 min)	maand variatiis liiduska ee mma aa tahdi yay ke inig edyamiis ah jini igaa rina) varyon isaanaka ee mmaad eleerid kantaaban hiskeera yadeendig sabaah
20	9.8	13.500	102.30	79380	47061	32,519		1	444	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY
	6.82	13.500 13.500	112.05 92.07	134460	70592		Inflow Volume	$= Td^*Qp^*60$		
40	5.8	Control for a dissiplement of the minute particular security	The state of the s	165726	94122	71604			and the same of th	2.98cfs*60sec/min
50	5	13.500 13.500	78.30 67.50	187920	117653	70268			3 = 14,304	ft
ĎŨ	4.44	13.500	59.94	202500 215784	141183	61317	Dutilow Volum	e = 0.5% Td-f	-Tc)*Qallow*60	
70	3.98	13.500	53.73	the same of the sa	164714	51071			7	(80+10)min*1.69cfs*60sec/min
80	3.62	13.500	48.87	225666 234576	188244 211775	37422			= 400	
90	3.32	13.500	44.82		211775);	owege vous !	ie = iugom A	olume – Oufic	
47 V		17.550	**************************************	242028	235305	6723			y = 14,30 y = 9,741	4 ft- 4563 ³ tt ft
							immericai ciffen	nce is due to ro	mäng	

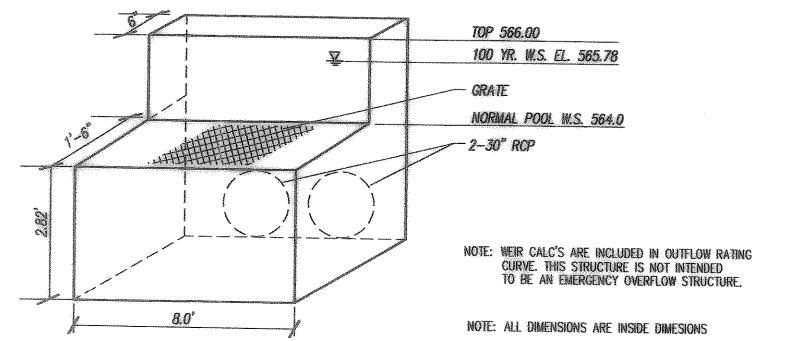


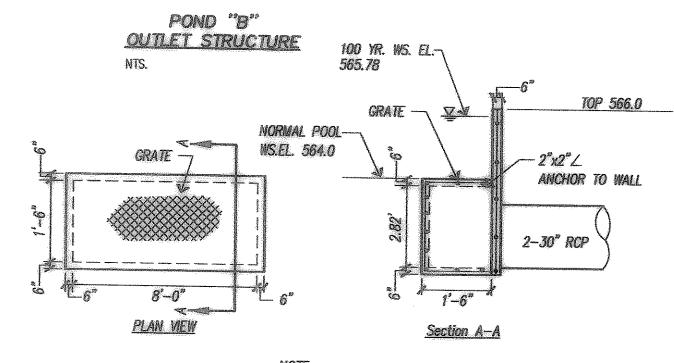
Detention Pond B

Pond Storage Volume Required = 71,604 cubic feet
Pond Storage Volume Provided = 75,919 cubic feet

www.managa.zacquas.zaczon	Detention P	ond B Sto	rage Calculat	ions
Elevation	Area (ft2)	Average Area (ft2)	Incremental Storage (ft3	Cumulative Storage (ft3)
564	36000	0	. O	0
565	41250	38625	38625	38625
565.85	46500	43875	37294	75919

	Deten	tion Pond I	3 Summary	and the second s			
	Required						
Return Period (yrs)	Q _{Allow} (cfs)	Storage (ft ³)	Min. Pond Elevation (ft)	Q _{released} a Min. Pond Elev. (cfs			
10	54,72	50009	565.29	48.3			
25	62.75	57866	565.47	58.8			
50	69.93	65772	565.65	69.9			
100	78.44	71604	565.78	78.4			





RUIE:
ALL REINF. SHALL
BE #3 BARS ON
12" O.C.E.W.

RETENTION / DETENTION POND "B"
OUTLET STRUCTURE

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER R. CUNY, P.E. 65642



4.22.2003

Construction Record Drawing 8-22-2007

Detention and Retention									
Pond calculations									
Fontanna Ranch									
<u>Ci</u>	City of Rockwall, Rockwall County, Texas								
Spring Haven Investmets, Inc. 6750 Hillcrest Plaza Dr. • Suite 305 • Dallas, Texas 75230 • 972.386.3333									
F.C. CUNY CORPORATION									
#2 Horizon Court • Heath, Texas 75032 • 469—402—7700									
Drawn By:	Checked By:	Date:	Scale:	Project No.:	Sheet No.:				
MSC	DJW	10/18/06	No Scale	05013	23 or 45				