## \*\*\*Special Permit Conditions on Next Page



## **COMAL COUNTY**

#### ENGINEER'S OFFICE

#### License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: 03/19/2024 Permit Number: 113610

3660 TANGLEWOOD TRL Location Description:

SPRING BRANCH, TX 78070

Subdivision: Charles Murhart Survey ABS No. 404

Unit: 0 Lot: Block: Acreage: 14.2300

Type of System: Aerobic

**Drip Irrigation** 

Issued to: Rebecca Creek Campgrounds

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to the rules and regulations for on-site sewerage facilities of Comal County, Texas, and the Texas Commission on Environmental Quality.

The license grants permission to operate the facility. It does not guarantee successful operation. It is the responsibility of the owner to maintain and operate the facility in a satisfactory manner.

Alterations to this permit including, but not limited to:

- Increase in the square feet of living area
- Increase in the number of bedrooms
- A change of use (i.e. residential to commercial)
- Relocation of system components (including the relocation of spray heads)
- Installation of landscaping
- Adding new structures to the system

may require a new permit. It is the responsibility of the owner to apply for a new permit, if applicable.

Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

This license to operate is valid for an indefinite period. The holder may transfer it to a succeeding owner, provided the facility has not been remodeled and is functioning properly.

Licensing Authority

**Comal County Environmental Health** 

Assistant: OS0034792

ENVIRONMENTAL HEALTH COORDINATOR

## COMAL COUNTY

#### ENGINEER'S OFFICE

RE: 3660 Tanglewood Trail
Spring Branch, TX, 78070

## Special Permit Conditions for Permit 113610 (Beginning at 03-19-2024)

A flow meter has been installed on the outflow line of the pump tank. As a condition of the License to Operate readings from this meter must be taken daily and recorded. The recorded daily readings must be submitted to the Comal County Environmental Health Office monthly beginning 30 days after the issuance of the License to Operate and continuing monthly every 30 days for 12 consecutive months. Failure to provide the required meter readings every month as indicated, or if at any time the daily meter readings are shown to exceed the total permitted flow of 1755 gallons per day, the License to Operate will be void and a new permit must be obtained.

If you have any questions, you can email me or call the office.

Thank You,

Brandon Olvera Designated Representative OS0034792

Comal County www.cceo.org f: 830-608-2078 e: olverb@co.comal.tx.us

# **CCEO**

	_		
N/A			
System 2	Numbering System is	_	_
System 3	Per submitted readings		
System 4	Not our permit numbering		
System 5	system		

GPD:	N/A			
Sy	System 2			
Sy	stem 3			
Sy	System 4			
Sy	stem 5			

Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/20/25	7483		06/20/25	16695	16695
06/21/25	7521	38	06/21/25	16715	20
06/22/25	7560	39	06/22/25	16780	65
06/23/25	7578	18	06/23/25	16845	65
06/24/25	7620	42	06/24/25	17041	196
06/25/25	7656	36	06/25/25	17158	117
06/26/25	7694	38	06/26/25	17304	146
06/27/25	7739	45	06/27/25	17435	131
06/28/25	7846	107	06/28/25	17495	60
06/29/25	7849	3	06/29/25	17532	37
06/30/25	7850	1	06/30/25	17801	269
07/01/25	7857	7	07/01/25	17839	38
07/02/25	7860	3	07/02/25	17846	7
07/03/25	7865	5	07/03/25	17860	14
07/04/25	7865	0	07/04/25	17846	0
07/05/25	7865	0	07/05/25	17846	0
07/06/25	7865	0	07/06/25	17846	0
07/07/25	7865	0	07/07/25	17846	0
07/08/25	7865	0	07/08/25	17846	0
07/09/25	7865	0	07/09/25	17846	0
07/10/25	7865	0	07/10/25	17846	0
07/11/25	7865	0	07/11/25	17846	0
07/12/25	7881	16	07/12/25	17941	95
07/13/25		0	07/13/25		0
07/14/25		0	07/14/25		0
07/15/25		0	07/15/25		0
07/16/25		0	07/16/25		0
07/17/25		0	07/17/25		0
07/18/25		0	07/18/25		0
07/19/25		0	07/19/25		0
07/20/25		0	07/20/25		0

Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/20/25	84	84	06/20/25	5089	5089
06/21/25	84	0	06/21/25	5234	145
06/22/25	84	0	06/22/25	5329	95
06/23/25	84	0	06/23/25	5473	144
06/24/25	84	0	06/24/25	5649	176
06/25/25	84	0	06/25/25	5737	88
06/26/25	84	0	06/26/25	5792	55
06/27/25	84	0	06/27/25	5863	71
06/28/25	85	1	06/28/25	5863	0
06/29/25	85	0	06/29/25	5863	0
06/30/25	86	1	06/30/25	5863	0
07/01/25	89	3	07/01/25	5863	0
07/02/25	90	1	07/02/25	5984	121
07/03/25	91	1	07/03/25	5991	7
07/04/25	93	2	07/04/25	5994	3
07/05/25	93	0	07/05/25	5994	0
07/06/25	93	0	07/06/25	5994	0
07/07/25	93	0	07/07/25	5994	0
07/08/25	93	0	07/08/25	5994	0
07/09/25	93	0	07/09/25	5994	0
07/10/25	93	0	07/10/25	5994	0
07/11/25	93	0	07/11/25	5994	0
07/12/25	103	10	07/12/25	6022	28
07/13/25	103	0	07/13/25		0
07/14/25	103	0	07/14/25		0
07/15/25	103	0	07/15/25		0
07/16/25	103	0	07/16/25		0
07/17/25		0	07/17/25		0
07/18/25		0	07/18/25		0
07/19/25		0	07/19/25		0
07/20/25		0	07/20/25		0

Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/20/25	62880	62880	06/20/25	230884	230884
06/21/25	62880	0	06/21/25	231116	232
06/22/25	62880	0	06/22/25	231374	258
06/23/25	62880	0	06/23/25	231662	288
06/24/25	62880	0	06/24/25	232056	394
06/25/25	62880	0	06/25/25	232379	323
06/26/25	62880	0	06/26/25	232770	391
06/27/25	62880	0	06/27/25	233339	569
06/28/25	62880	0	06/28/25	233339	C
06/29/25	62880	0	06/29/25	233339	C
06/30/25	62880	0	06/30/25	233339	C
07/01/25	62880	0	07/01/25	233339	(
07/02/25	62880	0	07/02/25	233755	416
07/03/25	62880	0	07/03/25	233950	195
07/04/25	62880	0	07/04/25	233950	C
07/05/25		0	07/05/25	233950	C
07/06/25		0	07/06/25	233950	(
07/07/25		0	07/07/25	233950	(
07/08/25		0	07/08/25	233950	(
07/09/25		0	07/09/25	233950	(
07/10/25		0	07/10/25	233950	(
07/11/25		0	07/11/25	233950	(
07/12/25		0	07/12/25	233955	5
07/13/25		0	07/13/25		C
07/14/25		0	07/14/25		C
07/15/25		0	07/15/25		C
07/16/25		0	07/16/25		C
07/17/25		0	07/17/25		C
07/18/25		0	07/18/25		C
07/19/25		0	07/19/25		(
07/20/25		0	07/20/25		(

Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/20/25	151039	151039	06/20/25	94182	94182	07/21/25		0	08/21/25		0	09/21/25		0	10/22/25		0
06/21/25	151039	0	06/21/25	94182	0	07/22/25		0	08/22/25		0	09/22/25		0	10/23/25		0
06/22/25	151039	0	06/22/25	94292	110	07/23/25		0	08/23/25		0	09/23/25		0	10/24/25		0
06/23/25	151039	0	06/23/25	94292	0	07/24/25		0	08/24/25		0	09/24/25		0	10/25/25		0
06/24/25	151039	0	06/24/25	94447	155	07/25/25		0	08/25/25		0	09/25/25		0	10/26/25		0
06/25/25	151039	0	06/25/25	94447	0	07/26/25		0	08/26/25		0	09/26/25		0	10/27/25		0
06/26/25	151039	0	06/26/25	94447	0	07/27/25		0	08/27/25		0	09/27/25		0	10/28/25		0
06/27/25	151039	0	06/27/25	94728	281	07/28/25		0	08/28/25		0	09/28/25		0	10/29/25		0
06/28/25	151039	0	06/28/25	94728	0	07/29/25		0	08/29/25		0	09/29/25		0	10/30/25		0
06/29/25	151039	0	06/29/25	94728	0	07/30/25		0	08/30/25		0	09/30/25		0	10/31/25		0
06/30/25	151039	0	06/30/25	94728	0	07/31/25		0	08/31/25		0	10/01/25		0	11/01/25		0
07/01/25	151039	0	07/01/25	94728	0	08/01/25		0	09/01/25		0	10/02/25		0	11/02/25		0
07/02/25	151039	0	07/02/25	94879	151	08/02/25		0	09/02/25		0	10/03/25		0	11/03/25		0
07/03/25	151039	0	07/03/25	94980	101	08/03/25		0	09/03/25		0	10/04/25		0	11/04/25		0
07/04/25	151039	0	07/04/25	95111	131	08/04/25		0	09/04/25		0	10/05/25		0	11/05/25		0
07/05/25	151039	0	07/05/25	95401	290	08/05/25		0	09/05/25		0	10/06/25		0	11/06/25		0
07/06/25	151039	0	07/06/25	95699	298	08/06/25		0	09/06/25		0	10/07/25		0	11/07/25		0
07/07/25	151039	0	07/07/25	95779	80	08/07/25		0	09/07/25		0	10/08/25		0	11/08/25		0
07/08/25	151039	0	07/08/25	95823	44	08/08/25		0	09/08/25		0	10/09/25		0	11/09/25		0
07/09/25	151039	0	07/09/25	95965	142	08/09/25		0	09/09/25		0	10/10/25		0	11/10/25		0
07/10/25	151039	0	07/10/25	95992	27	08/10/25		0	09/10/25		0	10/11/25		0	11/11/25		0
07/11/25	151039	0	07/11/25	96012	20	08/11/25		0	09/11/25		0	10/12/25		0	11/12/25		0
07/12/25	151039	0	07/12/25	96053	41	08/12/25		0	09/12/25		0	10/13/25		0	11/13/25		0
07/13/25	151039	0	07/13/25	96127	74	08/13/25		0	09/13/25		0	10/14/25		0	11/14/25		0
07/14/25	151039	0	07/14/25	96175	48	08/14/25		0	09/14/25		0	10/15/25		0			0
07/15/25	151039	0	07/15/25	96195	20	08/15/25		0	09/15/25		0	10/16/25		0			0
07/16/25	151039	0	07/16/25	96227	32	08/16/25		0	09/16/25		0	10/17/25		0			0
07/17/25		0	07/17/25		0	08/17/25		0	09/17/25		0	10/18/25		0			0
07/18/25		0	07/18/25		0	08/18/25		0	09/18/25		0	10/19/25		0			0
07/19/25		0	07/19/25		0	08/19/25		0	09/19/25		0	10/20/25		0			0
07/20/25		0	07/20/25		0	08/20/25		0	09/20/25		0	10/21/25		0			0

		SYS 3	RECEIVED	SYS 5
DATE	SYS 2	5183	By Brandon Olvera at	
0-19	- in	1 Just		
	out			
-20	in 07483	05089	62880	(2) TO SCO
	aut 16695	00084	230884	151039
-21	in 07521	05234	62880	94182
1	out 16715	00084	231116	151039
-22	in 07560	05379	62880	94292
=	aut 16780	00084	231374	151039
23	in 168455	05473	62880	94292
P	out 575784	00084	231662	151039
24	in 17041	05649	17232056	94447
	at 1620	84	5628802	15/039
25	in 7656	5737	" OBSERVE V	94447
	out 17158	20084	232319	151039
26	in 74945	<del>-</del> 791	121850	121031
24	1 : 00 11/	44	777770	QUINT?
27	act 17509	-067	90:10:00	151036
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200	Dut + +31	00084	233339	4470
28	in 17795	<b>6</b>		
0.0	out 78to	600 85		
29	in 17532	(A)		
	out 7829	000 85	143	
30	in 1+801			
1	out 7850	000 86		
lul	in 17939			
<u> </u>	out 7957	000 89	**	7 mg ()
2	in 17846.	05984	62880	151039
	out 7860	000900	233755	94879
3		05991	62880	1510
	in 17960 out 7965	6009 00	2339.50	94980
4	in 17846	59947	62840	151039
	out	00093	<b>W</b> • • • • • • • • • • • • • • • • • • •	95111
5	in			151030
<u> </u>	out	000 93		151039
1 2000	Contract Con			75 401
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	out	4004	Maria de Carlonia .	95699

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ATE	SYS 2	SYS 3	By Brandon Olvera	SYS 5
7-7-85 7-8-25 7-9-25	1			15/039
	· / ·			95779
7-8-25				95823
			1 hart was	151039
7-9-25	7		4 to mint	95967
-11			Harris Maria	151039
1/10/25				95992
111			Jan Jan St. M. Jan	151039
7/11/25				96012
11.10	12191	0.000		151039
1/12/25	1001	06022		96053
1101-	TOOL	00103	233755	151039
1/13/25		00103		96127
2/164		00103		151039
1/14/25		00 103		96/75
	- (	00003		150030
7/15/25				96 195
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7/16/25		190-40	1 1	96227
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### RECEIVED

By Brandon Olvera at 12:00 pm, Jul 29, 2025

DATE	METER #2	METER#3	METER#4	METER #5
01/20	IN-3821-31	IN 58-38	IN 132290.4	IN 102035.9
	OUT 1825-70 IN 1835-84	OUT 560.40	OUT 42945-60	OUT 5832/ 0 IN 103241-9
9/21.	1635-84	IN 58-28	IN 132587-2	S
	OUT 3846-07	OUT-360-40	out 62744.8	от 59221-1
9/22	IN 1844-01	IN 58-54	IN 132881-9	IN 104123-5
	our 3871-98 IN 1849-98	OUTS (04-51 IN 59.75	ur 102944-10 IN 133076-4	N 104761-8
9/23	1849-78	IN59.75	IN 133016-4	IN 104761-8
10-	OUT 3 883-18	оит 510 -99	OUT 62945.6	OUT L/0311-9
0.10.1	in	IN	IN	IN
9/24	NO Read	OUT	W have All	day.
On 1	IN Egnt See #	5N 59-34	IN 133713-1	IN 1,05821-8
9/25	our 3921-90	оит577-94	our 62945.6	оит 0/073-1
91-1	m Cairt See	moleo. 101	m 130184.2	m 1000451-1
9/ale	OUT 0939-47 IN Cout see	оит 577-94	OUT 62944.6 IN 134373-8	оит 101514-1
01-0	in Cart see	1000-76	m 134373-8	оит <u>LQ1514-1</u> т 107082-3-
9/27	OUT 3958~13	оит 586-23	оит 629446	оит 61961-
86/10	IN	1N 245.74	IN .	IN .
400	our	OUT 586.23	OUT	out
alina	IN .	m 060-84	IN .	IN
110	оит	оит	OUT T	оит
9130	IN .	in oleb-84	IN	in .
#110°	оит	OUT	OUT	OUT
on la)	IN	1N 060-92	IN .	IN .
9/3				
	OUT	OUT	OUT	OUT
10/1	IN 1895 8.4	IN DOI-92	IN 1360024-9	IN 11/9 255-7
	out 4011-78	оит ио2-34	out 6 2945.4	
101-	IN 19000-48	1NOW (-72)	IN 136 2777-1	
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DATE	A. C.	- X A	3	
4.	METER #2	METER#3	METER#4	METER #5
11/3	IN 1900-57	IN 061-92	1N 62945-6	1 110634-2
	OUT 4057-20 IN 1914-10	1N 061193	OUT 137449-60 IN 137451-9	OUT 64157-7
10/4				100034
1	OUT 4074-79	out 602 -36	out 12945-1e	our do4   57-91
10/5	"Cart See	IN OUI -30	in 42945-6	IN 110634-2
	OUT 4102 102	OUT 1011-7(0	UT 137914-5 IN 13627€-1	оит <u>44157-9</u> IN 1060 34-2
10/6.	early See	in 6001-741	1 36 2 18-1	
3	our 4170-85	OUT 0107 -31	OUT 62 96/4-1	
10/7	in can't see	in 600a-74	IN 1387279:1	IN 10034-2
101 (	out 4170-55	OUT 419. 21	он 42945-4	OUT 44157-9
11/2	IN 1979-02	IN 5000-74	IN 138545-7	IN 110434-2
10/8	out 4221-13	out 419-31	оит и2948-4	ол 4415-9
10/9	IN COUNT SER	m 042.74	IN 138545-7	m 1100334-2
101	он 4291-19	OUT 1019 - 31	OUT (029LISLO	OUT 6415779
) 0	in Cart Sou	N 009-53	N133979-5	1101635-5
10/10	оит 4355-42	оит 428-83	ण ७३१५५	
1 , 1	in curt sa	1N D(02 - 22	IN 139 145-5	1 64157-9
10/11	our 4433-74	OUT 428-83	our le 2945-4	6 on 110022-8
	IN	N	W	N
	оит .	OUT	out	оит
U-29	IN 02341	IN 67.5-9	14449	IN 110635
1.1.	онт 04964-38	OUT 0712-08	ой 62945-6	out 64-157-9
0-30	IN 2342	N 67-95	IN 145273	m 110635-9
	оит 4970	out 712-09	оит 62945	out 64157
1-29	IN 2344-339	IN 67-95	IN 146577	IN 1-40 635 - 6
34	out 4976-62	out 712-20	OUT 62945	OUT 64159
igus .	IN 2353 -82	IN 67-95	IN 147031	10.00
/1	5001-46	712-80	62945-	8 64157

1			AAFTED # 4	
DATE	METER #2	METER#3	METER#4	METER #5
11/2	IN 2360 -20	IN 68 - 45	IN 147732-4	IN 110635 - 8
170	OUT 5030 - 58 IN 2376-28	OUT 714-55 IN 69-33	OUT 62945-60	онт 64157-9
11/2	IN 2376-28	IN 69-33		110 638 - 8
"13	OUT 50 62-29	OUT 718-62	out 62945-B	OUT 64157-9
11/4	N2382-30	IN 69 -55	IN 148897-9	IN 110635-8
1 / /	OUT 5085-42 IN CANT SEE	out 727 -84	ur 62945-8	ол 64157 -9
11/5	IN CAN'T SEE	in 69-55	150537-8	110635-8
10	OUT 5111-81	out 727-84	он 62945-6	OUT 64157-9
11/	IN CANTSER	69,69	15/226-3	110635-9
/6	OUT \$ 132-15	OUT	ол 62945-6	ой 64157-9
11/2	IN SANG 5-00	in 69.53	IN 151517-6	IN 110635-8
177	our 5149-28	out 735.10	our 2 945 6	онт 64157-9
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	OUT	OUI	ОИТ	OUT
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	оит	оит	оит	OUT
	IN	IN	in	IN
	оит	OUT	OUT	OUT
	IN	IN	IN	IN

4

#### METER READING FOR REBECCA CREEK CAMPGROUNDS

5/17/24 TO 6/19/24

#### SYSTEM 3

5/17/24	IN:00091	OUT:00038
5/18/24	IN:00091	OUT:00038
5/19/24	IN:00091	OUT:00038
5/20/24	IN:00091	OUT:00038
5/21/24	IN:00091	OUT:00038
5/22/24	IN:00091	OUT:00038
5/23/24	IN:00091	OUT:00038
5/24/24	IN:00091	OUT:00038
5/25/24	IN:00091	OUT:00038
5/26/24	IN:00091	OUT:00038
5/27/24	IN:00091	OUT:00038
5/28/24	IN:00103	OUT:00038
5/29/24	IN:00110	OUT:00039
5/30/24	IN:00110	OUT:00039
5/31/24	IN:00110	OUT:00039
6/01/24	IN:00120	OUT:00039
6/02/24	IN:00120	OUT:00039
6/03/24	IN:00125	OUT:00039
6/04/24	IN:00125	OUT:00039
6/05/24	IN:00125	OUT:00039
6/06/24	IN:00125	OUT:00039
6/07/24	IN:00131	OUT:00039

6/08/24	IN:00131	OUT:00039
6/09/24	IN:00136	OUT:00039
6/10/24	IN:00136	OUT: 00039
6/11/24	IN:00136	OUT:00039
6/12/24	IN:00136	OUT:00039
6/13/24	IN:00136	OUT:00039
6/14/24	IN:00136	OUT:00039
6/15/24	IN:00136	OUT:0039
6/16/24	IN:00136	OUT:00039
6/17/24	IN:00136	OUT:00039
6/18/24	IN:00136	OUT:00039
6/19/24	IN:00136	OUT:00039

Date:	Supply:	Return:	GPD	Date:	Supply:	Return:	GPD	Date:
04/19/24			0	05/20/24	91	38	53	06/20/24
04/20/24			0	05/21/24	91	38	53	06/21/24
04/21/24			0	05/22/24	91	38	53	06/22/24
04/22/24			0	05/23/24	91	38	53	06/23/24
04/23/24			0	05/24/24	91	38	53	06/24/24
04/24/24			0	05/25/24	91	38	53	06/25/24
04/25/24			0	05/26/24	91	38	53	06/26/24
04/26/24			0	05/27/24	91	38	53	06/27/24
04/27/24			0	05/28/24	103	38	65	06/28/24
04/28/24			0	05/29/24	110	39	71	06/29/24
04/29/24			0	05/30/24	110	39	71	06/30/24
04/30/24			0	05/31/24	110	39	71	07/01/24
05/01/24			0	06/01/24	120	39	81	07/02/24
05/02/24			0	06/02/24	120	39	81	07/03/24
05/03/24			0	06/03/24	125	39	86	07/04/24
05/04/24			0	06/04/24	125	39	86	07/05/24
05/05/24			0	06/05/24	125	39	86	07/06/24
05/06/24			0	06/06/24	125	39	86	07/07/24
05/07/24			0	06/07/24	131	39	92	07/08/24
05/08/24			0	06/08/24	131	39	92	07/09/24
05/09/24			0	06/09/24	136	39	97	07/10/24
05/10/24			0	06/10/24	136	39	97	07/11/24
05/11/24			0	06/11/24	136	39	97	07/12/24
05/12/24			0	06/12/24	136	39	97	07/13/24
05/13/24			0	06/13/24	136	39	97	07/14/24
05/14/24			0	06/14/24	136	39	97	07/15/24
05/15/24			0	06/15/24	136	39	97	07/16/24
05/16/24			0	06/16/24	136	39	97	07/17/24
05/17/24	91	38	53	06/17/24	136	39	97	07/18/24
05/18/24	91	38	53	06/18/24	136	39	97	07/19/24
05/19/24	91	38	53	06/19/24	136	39	97	07/20/24

# CCEO COPY

	METER READING FOR REBECCA CREEK CAMPGROUNDS							
4/16/24 TO 5/17/24								
SYSTEM 3								
4/16/24	IN:00136	OUT:00023						
4/17/24	IN:00143	OUT:00024						
4/18/24	IN:00143	OUT:00024						
4/19/24	IN:00143	OUT:00024						
4/20/24	IN:00152	OUT:00026						
4/21/24	IN:00152	OUT:00026						
4/22/24	IN:00171	OUT:00030						
4/23/24	IN:00171	OUT:00030						
4/24/24	IN:00171	OUT:00030						
4/25/24	IN:00179	OUT:00032						
4/26/24	IN:00179	OUT:00032						
4/27/224	IN:00187	OUT:00032						
4/28/24	IN:00187	OUT:00032						
4/29/24	IN:00187	OUT:00032						
4/30/24	IN:00198	OUT:00033						
5/1/24	IN:00198	OUT:00033						
5/2/24	IN:00198	OUT:00033						
5/3/24	IN:00198	OUT:00033						
5/4/24	IN:00206	OUT:00033						
5/5/24	IN:00206	OUT:00034						
5/6/24	IN:00206	OUT:00034						
5/7/24	IN:00206	OUT:00034						

5/8/24	IN:00213	OUT:00034
5/9/24	IN:00213	OUT:00034
5/10/24	IN:000213	OUT: 00034
5/11/24	IN:00214	OUT:00034
5/12/24	IN:00214	OUT:00034
5/13/24	IN:00214	OUT:00034
5/14/24	IN:00216	OUT:00034
5/15/24	IN:00219	OUT:00035
5/16/24	IN:00222	OUT:00035
5/17/24	IN:00230	OUT:00038

		G FOR REBECCA CRE	EK	4/3/24	IN:00131	OUT:00023
CAMPGR				4/4/24	IN:00136	OUT:00023
	ГО 4/15/24			4/5/24	IN:00136	OUT: 00023
SYSTEM 3	3			4/6/24	IN:00136	OUT:00023
3/12/24	IN:00091	OUT:00023		4/7/24	IN:00136	OUT:00023
3/13/24	IN:00091	OUT:00023		4/8/24	IN:00136	OUT:00023
3/14/24	IN:00091	OUT:00023		4/9/24	IN:00136	OUT:00023
3/15/24	IN:00091	OUT:00023		4/10/24	IN:00136	OUT:00023
3/16/24	IN:00091	OUT:00023		4/11/24	IN:00136	OUT:00023
3/17/24	IN:00091	OUT:00023		4/12/24	IN:00136	OUT:00023
3/18/24	IN:00091	OUT:00023		4/13/24	IN:00136	OUT:00023
3/19/24	IN:00091	OUT:00023		4/14/24	IN:00136	OUT:00023
3/20/24	IN:00091	OUT:00023		4/15/24	IN:00136	OUT:00023
3/21/24	IN:00091	OUT:00023		4) 13) Z4	114.00130	001.00023
3/22/24	IN:00091	OUT:00023				
3/23/24	IN:00103	OUT:00023				
3/24/24	IN:00110	OUT:00023				
3/25/24	IN:00110	OUT:00023				
3/26/24	IN:00110	OUT:00023				
3/27/24	IN:00120	OUT:00023				
3/28/24	IN:00120	OUT:00023				
3/29/24	IN:00125	OUT:00023				
3/30/24	IN:00125	OUT:00023				
3/31/24	IN:00125	OUT:00023				
4/1/24	IN:00125	OUT:00023				
4/2/24	IN:00131	OUT:00023				

### **Comal County Environmental Health OSSF Inspection Sheet**

nstaller Name:	OSSF Installer #:	
		1/18/24 JC see last page for notes
1st Inspection Date:	2nd Inspection Date:	3rd Inspection Date:
Inspector Name:	Inspector Name:	Inspector Name:

Permit#: Address:							
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)				
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)				
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(G)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(A) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

**Inspector Notes:** 

## Comal County Environmental Health OSSF Inspection Sheet

N-	December 41	A may	Citotiana	Net	1 at 1	2 m d 1	7 mal 1
No.	Description SEPTIC TANK Tank(s) Clearly	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	Marked SEPTIC TANK IsingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and "T" Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum Requirements		285.32(b)(1) (E)285.91(2)285.32(b)(1) (F)285.32(b)(1)(E) (iii)285.32(b)(1)(E)(ii) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1) (B)285.32(b)(1) (A)285.32(b)(1)(E)(iv)				
1	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
	SEPTIC TANK Secondary restraint system providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
	SEPTIC TANK Tank Volume Installed						
12							
	PUMP TANK Volume Installed						
1	AEROBIC TREATMENT UNIT Size Installed						
14							
	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
15	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				
18			203.33(a)(2)				

## Comal County Environmental Health OSSF Inspection Sheet

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation	Allowei	Citations	Notes	13t 1113p.	Ziiu iiisp.	Sid ilisp.
	DIST COAL STOTENT DITP ITTIGATION		20E 22(a)(2)(A) (E)				
			285.33(c)(3)(A)-(F)				
19	DISPOSAL SYSTEM Soil						
20	Substitution		285.33(d)(4)				
20	DISPOSAL SYSTEM Pumped						
	Effluent		285.33(a)(4) 285.33(a)(3)				
			285.33(a)(1)				
21			285.33(a)(2)				
	DISPOSAL SYSTEM Gravelless Pipe						
	·		285.33(a)(3)				
			285.33(a)(2)				
			285.33(a)(4)				
22			285.33(a)(1)				
22	DISPOSAL SYSTEM Mound		205 22/ 1/51				
			285.33(a)(3) 285.33(a)(1)				
			285.33(a)(1) 285.33(a)(2)				
23			285.33(a)(4)				
23	DISPOSAL SYSTEM Other						
	(describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
24			263.33(C)(4)				
	DRAINFIELD Absorptive Drainline 3" PVC						
	or 4" PVC						
25							
	DRAINFIELD Area Installed						
26	DRAINFIELD Level to within 1 inch						
	per 25 feet and within 3 inches						
	over entire excavation		285.33(b)(1)(A)(v)				
27							
	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation Separation						
	DRAINFIELD Depth of Porous Media						
	DRAINFIELD Type of Porous Media						
28	DDAINEIEID E						
	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
29			(-/\-/\-/				
	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End						
	Plates w/Splash Plate, Inspection						
	Port & Closed End Plates in Place		285.33(c)(2)				
	(per manufacturers spec.)						
30							
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate Separation Distance between		285.33(d)(1)(C)(i)				
	Trenches						
31							

## Comal County Environmental Health OSSF Inspection Sheet

	OSSF Inspection Sneet							
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.	
	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field ( 1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes ( 3/16 - 1/4" dia. Hole Size ) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)					
	AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)					
33	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions							
	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.							
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump							
	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions							
38	PUMP TANK Secondary restraint system provided PUMP TANK Electrical							
	Connections in Approved Junction Boxes / Wiring Buried							

## Comal County Environmental Health OSSF Inspection Sheet

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II) 285.33(d)(2)(G)(iii)(III) 285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iii)(I)				
	APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F)				
	APPLICATION AREA Area Installed						
	PUMP TANK Meets Minimum Reserve Capacity Requirements						
	PUMP TANK Material Type & Manufacturer						
	PUMP TANK Type/Size of Pump Installed						

1/10/24 JC

Operational. Cover. Water meters installed on supply and return. Water lines don't meet 290 rules, installer to fix. More sleeving needed. All tanks covered.

1/18/24 JC Drip field covered, seeded. Tite line to new system not hooked up, plumber to finish tite line: need letter that plumber did it. Water lines are good.

3/19/24 JC covered, fields are good.

Baker Septic Service, a Series LLC **Baker Septic Pumping PS LLC** PO Box 2221 Canyon Lake, TX 78133-0009 830-899-2971 \*

## Invoice

Bill To

Rebecca Creek Campgrounds 3660 Tanglewood Trail Spring Branch, TX 78070 Carlos Orozco 915-920-6273

Date: 3/4/2024

Invoice # 17139

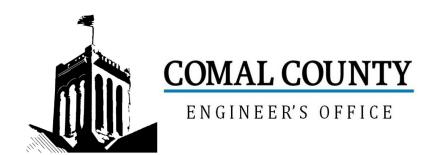
### **RECEIVED**

By Brenda Ritzen at 11:21 am, Mar 08, 2024

Item	Description	Qty	Price	Amount
Pump	Septic pump up to 1000 gal.	1.00	450.00	450.00
Pump	Septic pump up to 1000 gal.	1.00	450.00	450.00
Labor	Labor \$85.00/ hour			
Add. Waste	Additional waste \$0.45 per gallon			

bakersepticservice@yahoo.com

Subtotal	\$900.00
Sales Tax (8	\$0.00
Total	\$900.00
Payments/Credit:	\$0.00
Balance Due	\$900.00



## Permit of Authorization to Construct an On-Site Sewage Facility Permit Valid For One Year From Date Issued

Permit Number: 113610

Issued This Date: 05/15/2023

This permit is hereby given to: Rebecca Creek Campgrounds

To start construction of a private, on-site sewage facility located at:

3660 TANGLEWOOD TRL SPRING BRANCH, TX 78070

Subdivision: Charles Murhart Survey ABS No. 404

Unit: 0
Lot: 0
Block: 0

Acreage: 14.2300

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

**Drip Irrigation** 

This permit gives permission for the construction of the above referenced on-site facility to commence. Installation must be completed by an installer holding a valid registration card from the Texas Commission on Environmental Quality (TCEQ). Installation and inspection must comply with current TCEQ and County requirements.

Call (830) 608-2090 to schedule inspections.

\*\*\*\*As a condition of this permit submittal a meter must be installed on the outflow line of the pump tank. The readings from this meter must be recorded on a daily basis and submitted to the Comal County Environmental Health Department once a month for 12 months from the date the License to Operate is issued. If at any time the daily me ermitted flow rate this permit will be void and a new permit must be obtained.\*\*\*\*

#### **COUNTY ENGINEER'S OFFICE**

OSSF DEVELOPMENT APPLICATION CHECKLIST	Staff will complete shaded
	items Date Received Initials
	1/3610
	Permit Number
Instructions:	
Place a check mark next to all items that apply. For items that do not apply, Application Checklist <u>must</u> accompany the completed application.	place "N/A". This OSSF Development
OSSF Permit	
Completed Application for Permit for Authorization to Construct Operate	t an On-Site Sewage Facility and License to
Site/Soil Evaluation Completed by a Certified Site Evaluator or	a Professional Engineer
Planning Materials of the OSSF as Required by the TCEQ Rul shall consist of a scaled design and all system specifications.	es for OSSF Chapter 285. Planning Materials
Required Permit Fee	
Copy of Recorded Deed	
Surface Application/Aerobic Treatment System	
Recorded Certification of OSSF Requiring Maintenance/	Affidavit to the Public
Signed Maintenance Contract with Effective Date as Issue	uance of License to Operate
I affirm that I have provided all information required for my OSSF Development accompleted OSSF Development Application.	opment Application and that this application
Signature of Applicant	11/10/2021 Date
COMPLETE APPLICATION	_INCOMPLETE APPLICATION
Check No Receipt No (Mi	ssing Items Circled, Application Refused)

### REVISED

**RECEIVED** By Kathy Griffin at 2:30 pm, May 02, 2023

### RECEIVED

10:08 am, Apr 07, 2022 DMAL COUNTY OFFICE OF ENVIRON By Brandon M. Olvera at 10:26 am, Dec 20, 2022

ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Date 11/4/31	Permit #
Owner Name Lebecca Creek Campara	unds Agent Name Michelle Wertheim
Mailing Address 3660 Tavalewood Tra	Agent Address Blelo Tanale Wood Trail
City, State, Zip SONNA Branch TX 7807	
Phone # (930) 885-4035	Phone # (830) 446-0048
Email Yebecca Creek Ground a gma	CC:
All correspondence should be sent to: X Owner [	
Subdivision Name N/A	Unit Lot Block
Acreage/Legal 14.23 ac. Charles Murha	
Street Name/Address 3660 Tanale Wood	
Type of Development:	
Single Family Residential	
Type of Construction (House, Mobile, RV, Etc.)	
Number of Bedrooms	
Indicate Sq Ft of Living Area	
Non-Single Family Residential	
	ng the required land needed for treatment units and disposal area)
Type of Facility	ing the required letter record for deduction arms and dispects area,
	dicate Number Of Occupants
Restaurants, Lounges, Theaters - Indicate Number of	
Hotel, Motel, Hospital, Nursing Home - Indicate Number	
Travel Trailer/RV Parks - Indicate Number of Spaces	
Miscellaneous	
Estimated Cost of Construction: \$(	(Structure Only) N/A
Is any portion of the proposed OSSF located in the Unite	ed States Army Corps of Engineers (USACE) flowage easement?
Yes X No (if yes, owner must provide approval from US	SACE for proposed OSSF improvements within the USACE flowage easement)
Source of Water X Public Private Well	
Are Water Saving Devices Being Utilized Within the Reside	ence? 💢 Yes 🗌 No
<ul> <li>facts. I certify that I am the property owner or I possess the app property.</li> <li>Authorization is hereby given to the permitting authority and des site/soil evaluation and inspection of private sewage facilities</li> </ul>	ted does not contain any false information and does not conceal any material propriate land rights necessary to make the permitted improvements on said signated agents to enter upon the above described property for the purpose of
<ul> <li>I understand that a permit of authorization to construct will not be by the Comal County Flood Damage Prevention Order.</li> </ul>	e issued until the Floodplain Administrator has performed the reviews required
	e-mail address associated with this permit application, as applicable.
	12-14-22
Signature of Owner	Date 5 1 - 2 Page 1 of 2
195 David Jonas Dr., New Braunfels, Te	exas 78132-3760 (830) 608-2090 Fax (830) 608-2078 Revised February 202

### **REVISED**

9:35 am, Apr 07, 2022

ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

MStem #3 Planning Materials & Site Evaluation as Required Completed By <u>Valleigh Cravdall</u>			
System Description <u>ALVODIC</u> W <u>AVIP IVII AVID IVII AVID</u>			
Size of Septic System Required Based on Planning Materials & Soil Evaluation			
Tank Size(s) (Gallons) 2 NUWATER 1500 FTU Absorption/Application Area (Sq Ft) 12, 420 ft <sup>2</sup>			
Gallons Per Day (As Per TCEQ Table III) 1755 and			
(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.)			
Is the property located over the Edwards Recharge Zone?   Yes No			
(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))			
Is there an existing TCEQ approved WPAP for the property?   Yes No			
(If yes, the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)			
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP?   Yes  No			
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)			
Is the property located over the Edwards Contributing Zone? Yes   No			
Is there an existing TCEQ approval CZP for the property?   Yes No			
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)			
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP?   Yes No			
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)			
Is this property within an incorporated city?   Yes   No			
If yes, indicate the city:			
By signing this application. I certify that:			

- The information provided above is true and correct to the best of my knowledge.

- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Date

Page 2 of 2

Filed and Recorded

Official Public Records Bobbie Koepp, County Clerk

bbie Koepa



202106058592 11/10/2021 03:22:29 PM 1/1

#### AFFIDAVIT TO THE PUBLIC

THE COUNTY OF COMAL STATE OF TEXAS

#### CERTIFICATION OF OSSF REQUIRING MAINTENANCE

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities (OSSF's), this document is filed in the Deed Records of Comal County, Texas.

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (commission) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as (Insert legal description): The property is owned by (insert owner's full name): Alar Creek Rebecca This OSSF must be covered by a continuous maintenance contract for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally. Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office. WITNESS BY HAND(S) ON THIS / O DAY OF Owner(s) signature(s) SWORN TO AND SUBSCRIBED BEFORE ME ON THIS ( DAY OF Notary Public, State of Texas Notary's Printed Name: My Commission Expires:

> JOHNNY TRIGIANO Notary Public, State of Texas Comm. Expires 03-18-2023

> > Notary ID 131935218

Permit/License Number :
Regulatory Authority : Comal Co

JT Environmental Services 13735 Greenwood rd Atascosa Tx 78002 Cell (210) 347-8465 Customer: Rebecca Creek Campgrounds

Site address: <u>3660 Tanglewood Trl</u> (System #3)

City: SpringBranch Zip: 78070

Phone: 830-885-4035

Email: rebeccacreekcampgrounds@gmail.com

### **Septic System Service Agreement**

- I. General: This work for Hire Agreement (hereinafter referred to as "agreement") is entered into and between Rebecca Creek Campgrounds (hereinafter referred to as "Customer") and JT Environmental Service. By this agreement, JT Environmental Service and it's employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated below, and described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein. The designed flow rate for this system is a maximum of 500 gallons per day.
- II. Effective dates: This Agreement commences on November 2021 and ends on November 2023. If this is an initial agreement (New Installation), the Customer will notify the Contractor within two(2) business days of the systems first use to establish the date of commencement. If no notification is received by the Contractor within ninety (90) days after completion of the installation or where county authority mandates, the date of commencement will be the date the "License to Operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.
- **III.** Renewal: This agreement shall automatically renew each at the same terms, conditions ,and costs unless either party gives notice of termination a minimum of thirty (30) days prior to the end of the first agreement period. See section IV.
- **IV.** Termination of agreement: This agreement may be terminated by either party with thirty (30) days written notice for any reason, including for example, substantial failure to perform in accordance with it's terms, without fault or liability of the terminating party. If this agreement is so terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of any remaining monies from Prepayment for services will be refunded to Customer within thirty(30) days. Either party terminating this agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory authority a minimum of thirty (30) days prior to the date of such termination. Non payment of any kind shall be considered breach of contract and a termination.
- V. Services: Contractor Will:
- a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment systems manufacturer, and required by state and/or local regulation, for a total of three(3) visits per year. (**Residential**)
- **b.** Provide written record of each visit to the site by means of an inspection tag attached or contained in the control panel.
- c. Repair of Replace, if Contractor has necessary materials on site, any component of the OSSF to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and services cost are \$100.00 or less. Customer hereby authorizes Contractor to perform the service and invoice Customer for said service. When service cost are greater than \$100.00, or if the contractor does not have the necessary supplies on site, the customer will be notified of required services and associated costs. Customer must notify Contractor of arrangements to affect repair of

system within two(2) days of said notification.

- **d.** Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only, as aplicable)
- e. Forward copies of this agreement and all reports to the regulatory agency and the Customer.
- **f.** Visit the site in response to Customers request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to the customer.
- VI. <u>Disinfection</u>: The Disinfection system will be maintained by the Customer. A cost estimate can be provided if the customer can not perform this function. Customer initial

#### VII. Electronic Monitoring is not included in this agreement.

- **VIII.** <u>Performance of agreement:</u> Commencement of performance under this agreement is contingent on the following conditions:
  - a. If this is a 1. Contractor receipt of fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.
    - 2. Contractors receipt of payment of the Wastewater-monitoring fee in accordance with the terms as described in section XIV of this agreement.
  - **b**. If the above conditions are not met, Contractor is not obligated to perform any portion of this agreement.
- IX. Customers Responsibilities: The Customer is responsible for each and all of the following:
  - a. Provide all necessary yard and lawn maintenance and removal of obstacles, including but not limited to: Dogs and other animals, vehicles, trees, brush, trash, or debris as needed to allow the OSSF to function properly, and to allow Contractor safe and easy access to all parts of the OSSF.
  - **b.** Protect equipment from physical damage including but not limited to damaged caused by insects.
  - c. Maintain a current license to operate and abide by the conditions and limitations of that license and all requirements for an OSSF from the State and/or local regulatory agency, whichever are more stringent, as well as proprietary systems manufacturer recommendations.
  - **d.** Notify Contractor immediately of any and all alarms, and/or any and all problems with. including failure of the OSSF.
  - **e.** Provide upon request by Contractor, water usage records for evaluation by Contractor as to the performance of the OSSF.
  - f. Allow samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluation of the OSSF. If these samples are taken to a laboratory for testing, with the exception of the service provided under section V, subsection d, above. Customer agrees to pay contractor for sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus associated fees for laboratory testing.
  - g. Prevent the backwash or flushing of water treatment of conditioning equipment from entering the OSSF.
  - **h.** Prevent condensation from air conditioning, or refrigeration units, or ice maker drains, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by the system designer.
  - i. Provide pumping and cleaning of tanks and treatment units, when as recommended by Contractor, at Customers expense.
  - j. Maintain site drainage to prevent adverse effects to the OSSF.
  - k. Pay promptly and fully, all Contractors fees, Bills, or invoices as described herein.
- X. Access by Contractor: Contractor is hereby granted and easement to the OSSF for the purpose of performing services described herein. Contractor may enter during Contractors normal work hours and /or any reasonable hour without prior notice to Customer to perform services and/or repairs described herein. Contractor shall have access to the OSSF electrical and physical components.

Tanks and treatment units shall be accessible by means of man ways, or risers and removable covers, for the purpose of evaluation as required by state and/or local rules or proprietary system manufacturer. If not an initial agreement (new installation) and the access is not in place or provided by Customer, the cost for the labor of excavation, and possible other labor and material costs will be required. These costs shall be billed to the Customer as an additional service at a rate of \$75.00 per hour, plus materials at list price. Excavated soil shall be replaced as best as can at the time of service, and under no circumstances is the Contractor responsible for damages to sod, grass, roots, landscaping, or any unmarked underground items (telephone, television, electrical, cable, water, gas, etc) or for the uneven settling of soil.

- XI. <u>Limit of Liability</u>: Contractor shall not be held liable for any incidental, consequential, special damages, economic loss due to expense, loss of profits or income, loss of use to Customer, whether in contract tort of any other theory. In no event shall Contractor be liable in an amount exceeding the total fee for services amount paid by Customer under this agreement.
- XII. Severability: If any provision of the "Proposal and Contract" shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of the "agreement" is invalid or unenforceable, but that by limiting such provisions is would become valid and enforceable, then such provisions shall be deemed to be written, constructed and enforces as so limited.

XIII. Fee for services: The cost for this agreement is \$465.00 (Four hundred Sixty Five). This fee only involves the regularly scheduled required inspection service described herein section V. Services. The Fee does not include any equipment, material, labor necessary for non-warranty repairs, unscheduled inspections, or Customer requested visits to site.

#### Price Schedule for common (not covered) services:

Customer requested site visits ( Call Outs )

\$100.00

Site evaluation for existing OSSF (N/A if a service contract is initiated)

Samples necessary for Regulatory authority compliance, not required by the STATE

For all other services/repairs, the contractor will provide a cost estimate to the customer.

- XIV. <u>Payment:</u> Full amount due upon signature (required of new customers). Payment of invoices for any other service or repair provided by Contractor are due upon receipt of invoice.
- XV. Application or transfer of payment: The fees paid for this agreement may transfer to the subsequent property owner; however this agreement is not transferable. Customer will advise subsequent property owner of the state requirement that they sign a replacement agreement authorizing Contractor to perform the herein described services, and accepting the Customers responsibilities. This replacement agreement must be signed and received in the Contractors office within ten (10) days of the date of transfer of property ownership. Contractor will apply all funds received from Customer, first to any past due obligations arising form this agreement including fees or charges for service or repairs. Any remaining monies will be applied to the funding of the replacement agreement. The consumption of funds in this manner may result in a reduction in the termination date of effective coverage per this agreement. See section IV.

XVI. Entire agreement: This agreement contains the entire Agreement of the parties, and there are no other conditions in any other agreement, oral or written.

Theodore G. Knappick

MP#0002213

Customer Signature

Date

### **OSSF DESIGN**

for Rebecca Creek Campgrounds

> Design as required by 30 TAC Chapter 285

MANGOLD ENGINEERING COMPANY 5596 CR 5710

**DEVINE, TEXAS 78016** 

PHONE: (830) 931-0400 PHONE: (210) 213-3912 FIRM NO. F-5549



#### **Cypress Cove Water Supply Corporation**

180 Tanglewood Trail Ct., Spring Branch, TX 78070

Email – <a href="mailto:ccwsc@gvtc.com">ccwsc@gvtc.com</a>

Office – 830-885-2440 / <a href="mailto:www.cypresscovewsc.com">www.cypresscovewsc.com</a>

April 6, 2022

Comal County Engineer's Office (CCEO)
Subject: Notice of Septic placement Permission

Regarding the Rebecca Creek Campgrounds at 3660 Tanglewood Trail Spring Branch, TX 78070

To Whom It May Concern at Comal County Engineers Office,

The Rebecca Creek Campgrounds has permission to place its septic lines across any of Cypress Cove Water Supply's (CCWSC) easements as necessary.

Sincerely,

Angelyn Price

Administrative Office Manager

### SITE EVALUATION AND CALCULATIONS

### RECEIVED

By Brandon Olvera at 9:00 am, Oct 18, 2023

Site Evaluation:

Clay loam

Soil Texture: Soil Structure:

Blocky

Soil Depth:

18" minimum

Restrictive Horizon:

At 18" min. from surface

Groundwater:

None encountered

Topography:

More than 2% slope on drainfield area

**Determination:** 

Site was determined to have a Class III soil. Due to the park layout and

rock horizon an aerobic treatment unit followed by drip irrigation shall be

installed.

#### Calculations:

System # 3; the calculated flow based on water records is 1755 gpd. The system shall be over designed to match the TCEQ designated flow of 2524 gpd. Reference design 100-8497 for calculations and layout. Water saving devices are used throughout.

Q = 2524 gpd

#### ASBUILT:

Two Pro-Flo Model 1500S aerobic treatment unit is installed. A 2000 gallon pretreatment tank and Two 2500 gallon equalization tanks are installed preceding the aerobic treatment unit. Following the aerobic treatment unit Two 1500 gallon pump tanks. The tank system is followed by a drip irrigation system. (Reference the System Layout) Chlorinator is required for water entering pump tank compartment. Liquid type chlorination shall be used.

Ra = 0.20 gal. / sq. ft. / day, (For a Class III soil)

A = Q / Ra, A = (2524 gal. / day) / (0.20 gal. / sq. ft. / day) = 12,620 sq. ft.

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

Comal County, Texas

**Drawing No.** 100-84931



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 **Date:** 10/12/23

Scale:

None

Sheet 1

1 **of** 5



### **RECEIVED**

By Brandon Olvera at 3:38 pm, Jan 03, 2024

### SITE EVALUATION AND CALCULATIONS

#### Calculations:

Emitter line shall be used which has emitters spaced at 2 foot intervals, and adjacent emitter lines shall also be spaced at 2 feet on center.

**Required line length** = A / 2 = (12,620 sq. ft. / 2 sq. ft. per foot) =**6310 feet6625**' of drip line is installed as shown on the System Layout ASBUILT

A 1 1/2" SCH 40 PVC supply line shall be used from the ATU systems pump tank to the drainfield. A 1 1/2" SCH 40 PVC return line from the drainfield back to the pump tank shall be provided. The system shall be set up in accordance with ATU specifications. (Contact manufacturer for complete specifications and reference the System Layout and details)

#### NOTES FOR INSTALLER (if applicable):

Do not connect water softener back-wash to septic system.

The TCEQ allows washing machine water to be discharged into a separate gray water system unless the water contains human waste. Running this water out separate from the septic system can prolong the life of the system.

A Netafim 1 1/2" "Super Filter" 200 mesh/55 micron, shall be installed in a riser in the outlet line of the pump tank compartment.

Connect the 1 1/2" "Super Filter" and assemble in accordance with manufacturers specifications..

Contact ATU dealer for complete specifications. All required specifications may not be contained in this design.

Owner Rebecca Creek Camgrounds

**Drawn by:** Kaeleigh R. Crandall

Location

See sheet #1

**Drawing No.** 100-84931



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 12/29/23

Scale: None

Sheet 2 of 5



## 9:41 am, Apr 07, 2022 E EVALUATION AND CALCULATIONS

The design pressure at the emitters is as specified by the manufacturer.

The total length of supply and return pipe is as shown on the System Layout

Diameter of supply and return lines is as shown on the System Layout.

#### NOTES TO OWNER OF SYSTEM: MAINTENANCE AND MANAGEMENT PRACTICES (if applicable):

An OSSF should not be treated as if it were a normal city sewer system.

The excessive use of in-sink garbage grinders and grease discarding should be avoided.

Do not use the toilet to dispose of cleaning tissues, cigarette butts, or other trash.

Septic tanks shall be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device, to prevent solids from exiting the tank with the liquid.

Septic tanks should be cleaned every two-to-three years to prevent excessive sludge buildup.

Do not build driveways, storage buildings, or other structures over the treatment works or its disposal field.

Chemical additives or the so-called enzymes are not necessary for the operation of a septic tank. Some of these additives may be harmful to the tank's operation.

continued next page......

O	W	ne	r
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Rebecca Creek Camgrounds

Kaeleigh R. Crandall Drawn by:

Location

See sheet #1

100-8493 Drawing No.



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

3/10/22 Date:

None Scale:

Sheet 3 of 5



### E EVALUATION AND CALCULATIONS

Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.

It is not advisable to allow water softener back flush to enter into any portion of the OSSF.

Except for Aerobic systems, the liquid from the OSSF is still heavily laden with bacteria. Contact with this liquid should be avoided, if it surfaces.

WATER CONSERVATION MEASURES (if applicable):

Showers usually use less water than baths. Install a water saving shower head that uses less than 2 1/2 gallons per minute and saves both water and energy.

If you take a tub bath, reduce the level of water in the tub from the level to which you customarily fill it.

Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.

Check toilets for leaks that may not be apparent. Add a few drops of food coloring to the tank. Do not flush. If the color appears in the bowl within a few minutes, the toilet fill or ball-cock valve needs to be adjusted to prevent water from overflowing the stand pipe, or the flapper at the bottom of the toilet tank needs to be replaced.

Reduce the amount of water used for flushing the toilet by installing one of the following: a new toilet (1.6 gallon); a toilet tank dam; or filling and capping one-quart plastic bottles with water (usually one is all that will fit in smaller toilet tanks) and lowering them into the tank of the existing 3.5 gallon or larger toilet. Do not use bricks since they may crumble and cause damage to the fixture.

continued next page......

Owner	Rebecca Creek Camgrounds	Drawn by:	Kaeleigh R. Crandall		
Location	See sheet #1	Drawing No	10	100-8493	
-		I	Date:	3/10/22	



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

None Scale:

Date:

Sheet 4 of 5



### E EVALUATION AND CALCULATIONS

Try to run the dishwasher with a full load, whenever possible.

Avoid running the water continuously for brushing teeth, washing hands, rinsing kitchen utensils, or for cleaning vegetables.

Use faucet aerators that restrict flow to no more than 2.2 gallons per minute to reduce water consumption.

Keep a container of drinking water in the refrigerator instead of running the faucet until the water turns cool.

Insulate all hot water pipes to avoid long delays of wasted water while waiting for the heated water.

Ask your city, county, or local government about their programs to conserve water, and how they can help you save water.

Owner

Rebecca Creek Camprounds

Drawn by:

Kaeleigh R. Crandall

Location

See sheet #1

Drawing No.

100-8493



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400

Date: 3/10/22

Scale: None

Sheet 5 of 5





### MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400 Fax: (830) 931-9826 FIRM NO. F-5549

Date: March 18, 2024

Comal County Office of Environmental Health 195 David Jones Drive New Braunfels, Texas 78132

Subject:

Septic permit 113609 (System #2) and permit 113610 (System #3)

3660 Tanglewood Trail, Comal County, Texas.

Dear Sirs:

Based on information provided by the owners of Rebecca Creek Campgrounds, the tight line between the tank inlet and the buildings was installed by a master plumber, Corey Martinez and Rene Reyes License number 56117.

TCEQ requires a licensed installer shall connect the tight line to the tanks. Marco Fernandez is taking responsibility for a minimum of 5 feet of the tight line from the inlet of the tank back to the buildings. This shall be inspected by the appropriate county officials to verify it matches TAC 285 rules.

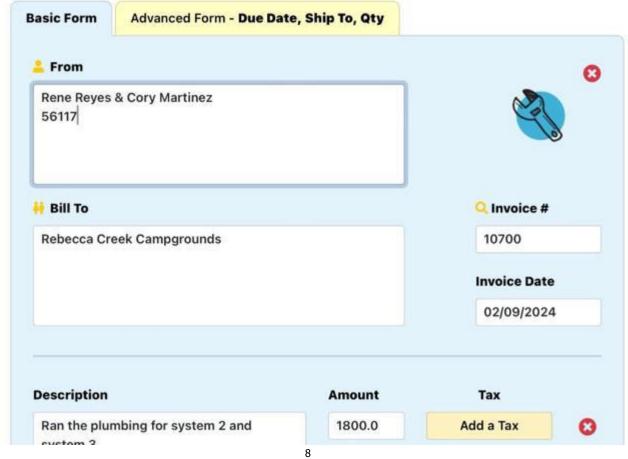
Sincerely,

Kaeleigh R. Crandall, P.E.

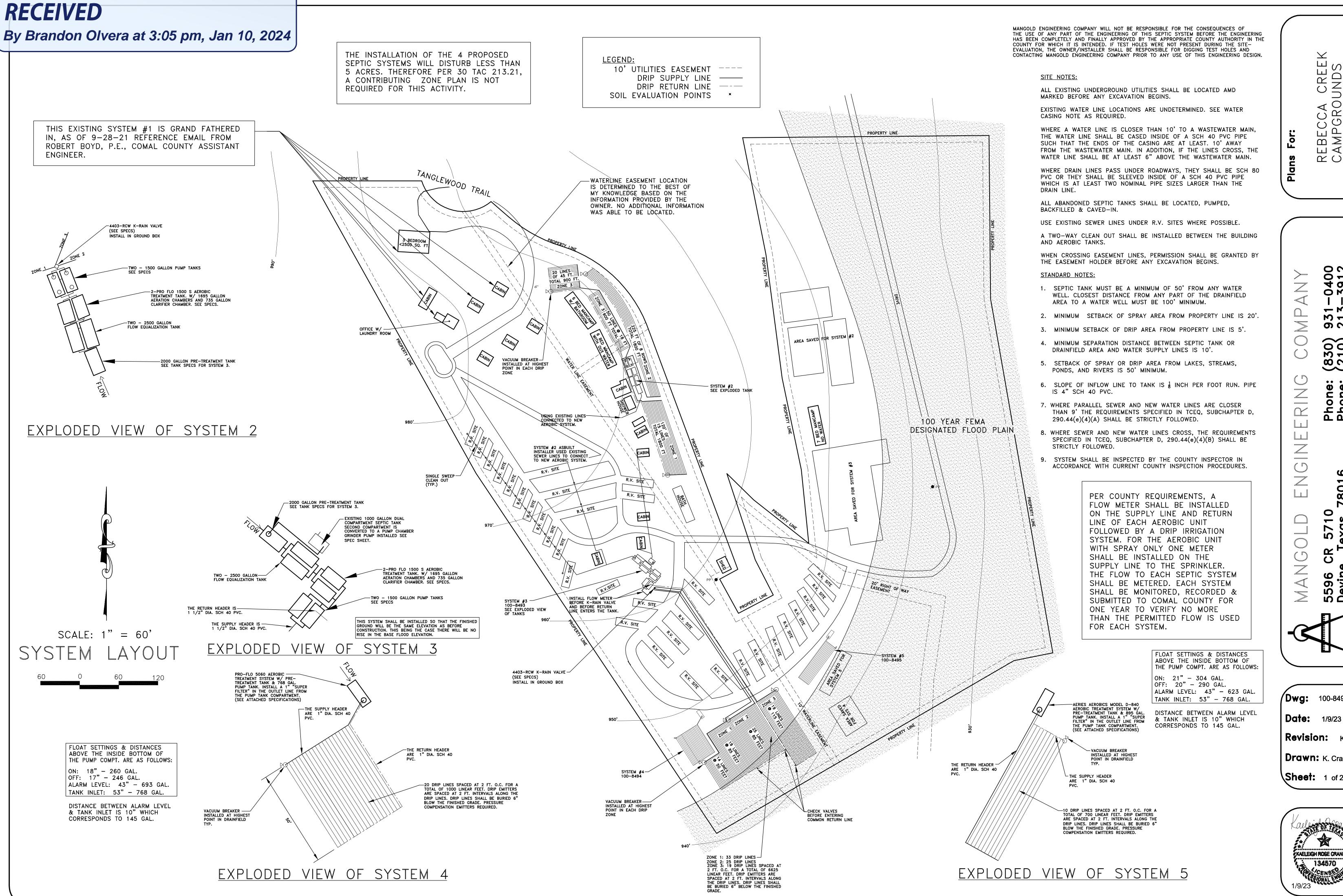


By Brandon Olvera at 8:12 am, Mar 19, 2024





As a condition of this permit submittal, a meter must be installed on the outflow line of the pump tank. The readings from this meter must be recorded on a daily basis and submitted to the Comal County Environmental Health Department once a month for 12 months from the date the License to Operate is issued. If at any time the daily meter reading exceeds the permitted flow rate this permit will be void and a new permit must be obtained.



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40

0 0 S 0 C 5596 Devir FIRM

**Dwg:** 100-8497

1/9/23

**Drawn:** K. Crandall

Sheet: 1 of 2



Alarm/Light w/ -

Tee fitting

48" @1500 gal.

Alarm on level 38" @ 1188 gal.

power circuit

pump.

pump on level.

Finished grade to drain

tank, if read.

High water alarm — switch below 2nd.

separate from

Grade extension rings

Install a Netafim 1 1/2" "Super

4 hrs. avg. flow, after alarm is activated, (312 gallons per tank)

1 1/2" horizontal line connecting both pumps

Filter" in the outlet line.
(Ref. manufacturer's specs.)

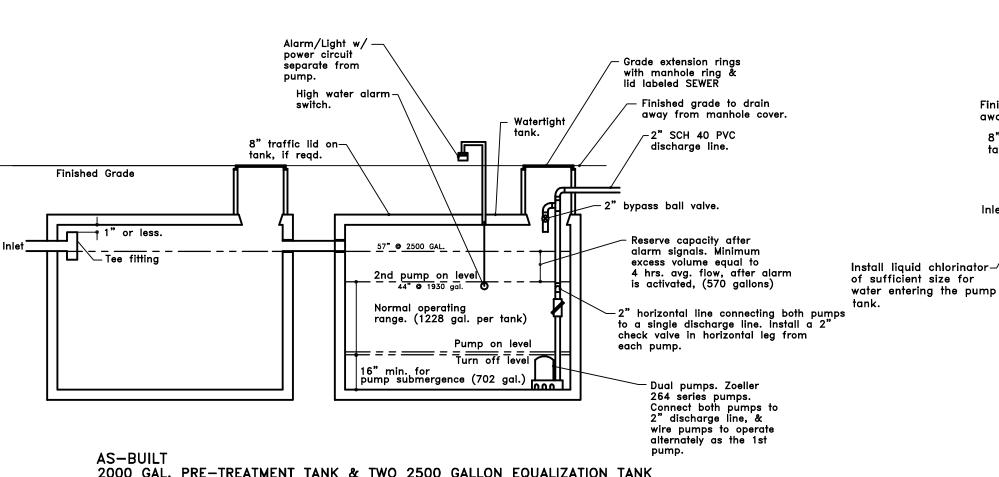
with manhole ring & lid labeled SEWER

√1 1/2" SCH 40 PVC line

- Reserve capacity after alarm signals. Minimum excess volume equal to

(If required)

√1 1/2" ball valve.



2000 GAL. PRE-TREATMENT TANK & TWO 2500 GALLON EQUALIZATION TANK SET VALVES, FLOATS, AND TIMERS TO DELIVER A MAXIMUM OF 16 GAL./MIN., AND 61 GALLONS PER HOUR TO THE AEROBIC TREATMENT UNITS, TOTAL.

THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

### Normal operating range. (688 gal. per tank) to a single discharge line. Install a 2" Pump on level check valve in horizontal leg from ====== each pump. Pump off level 500 GAL —Dual pumps, 4" Submersible Series J 20 gpm, 3/4 hp, 230 volt, single phase from ATU supplier. (or equal) Wire pumps to operate alternately TWO 1500 GAL. PUMP TANK DETAIL as the 1st. pump. AS-BUILT - Grade extension rings with manhole ring & lid labeled SEWER Alarm/Light\_w/ power circuit — Finished grade to drain away from manhole cover Watertight -2" SCH 40 PVC High water alarm discharge line. 2" horizontal line connecting both pumps to a single discharge line. Install a 2" check valve in horizontal leg from range. (522 gal.) each pump. Turn off level 14" min. for pump submergence (304 gal.) Dual pumps. Sump pump Connect both pumps to 2" discharge line, & wire pumps to operate TOTAL TCEQ FLOW RECEIVED FROM 4 CONNECTIONS = 380 GPD 1000 GALLON LIFT STATION (AS-BUILT

Grade extension rings

—Install a Netafim 1 1/2" "Super Filter" in the outlet line.

(Ref. manufacturer's specs.)

 $\sim$  1 1/2" bypass ball valve.

4 hrs. avg. flow, after alarm is activated, (312 gallons per tank)

with manhole ring a lid labeled SEWER

(If required)

√1 1/2" SCH 40 PVC line

Reserve capacity after alarm signals. Minimum

excess volume equal to

1 1/2" horizontal line connecting both pumps to a single discharge line. Install a 2"

-Dual pumps, 4" Submersible Series J 20 gpm, 3/4 hp, 230 volt, single

phase from ATU supplier. (or equal)

check valve in horizontal leg from

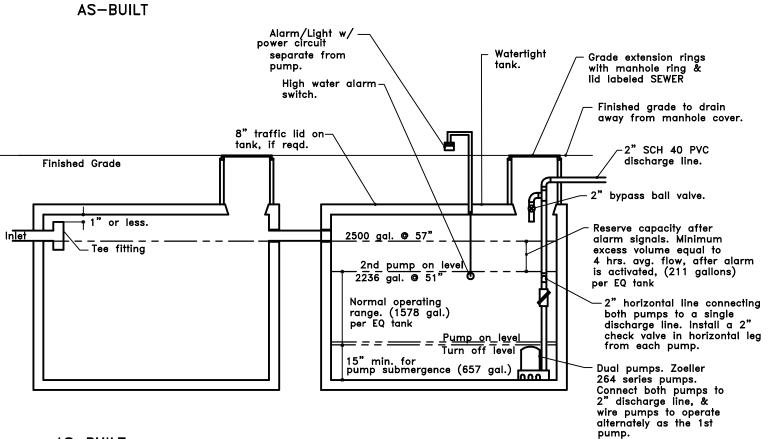
each pump.

 $\sim$ 1 1/2" ball valve.

Watertight

TWO 1500 GAL. PUMP TANKS DETAIL Wire pumps to operate alternately

# SYSTEM #2 TANK SPECS:



AS-BUILT 2000 GAL. PRE-TREATMENT TANK & TWO 2500 GALLON EQUALIZATION TANKS

SET VALVES, FLOATS, AND TIMERS TO DELIVER A MAXIMUM OF 16 GAL./MIN., AND 74 GALLONS PER HOUR TO THE AEROBIC TREATMENT UNITS, TOTAL.

NOTES:

THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

Alarm/Light w/ —

power circuit

separate from

pump.

Inlet

Tee fitting

48" @ 1500 gal.

Alarm on level

38" @ 1188 gal.

Normal on

AS-BUILT

Normal operating range. 688 gal.

per tank — as\_built

Pump on level 2" = Pump off level

500 GAL.

High water alarm — switch below 2nd.

pump on level.

Finished grade to drain

8" traffic lid on -

tank, if read.

### CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

### **DIRECT RATIO EQUATION:**

Q COMPONENT Q TCEQ-COMPONENT Q TCEQ-TOTAL-PARK Q TOTAL-PARK-WATER-RECORDS

### FOR SYSTEM 1 Q TCEQ COMPONENT:

3 BEDROOM <2500 SQ. FT. Q = 240 GPD OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD LAUNDRY ROOM W/ 4 WASHING MACHINES Q= 4 WASHING MACHINES (200 GPD / MACHINE) = 800 GPD

3 CABINS (AS AN APARTMENT) Q = 100 GPD/ CABIN (3 CABINS) = 300 GPD

Q<sub>TCEO COMPONENT</sub> = 1360 GPD SYSTEM #1

### FOR SYSTEM 2 Q TCEO COMPONENT

4 CABINS (AS AN APARTMENT) Q = 100 GPD / CABIN (4 CABINS) = 400 GPD

6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM) Q = 60 GPD / BED (6 BEDS) = 360 GPD

SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

### $Q_{TCEO\ COMPONENT} = 2104\ GPD\ SYSTEM\ #2$

FOR SYSTEM 3 Q TOEO COMPONENT

Q = 17 RV (40 GPD / RV) = 680 GPD5 CABINS (AS AN APARTMENT) Q = 100 GPD / CABIN (5 CABINS) = 500 GPD

BATH HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

### $Q_{TCEO\ COMPONENT} = 2524\ GPD\ SYSTEM\ #3$

FOR SYSTEM 4 Q TCEQ COMPONENT

9 RV SITES (40 GPD) = 360 GPD

 $Q_{TCEO\ COMPONENT} = 360\ GPD\ SYSTEM\ #4$ 

FOR SYSTEM 5 Q TCEQ COMPONENT

7 RV SITES (40 GPD) = 280 GPD

 $Q_{TCEO}$  COMPONENT = 280 GPD SYSTEM #5

# FLOW FOR BATH HOUSE & SHOWER HOUSE:

USAGE FROM RV Q= 28 GPD/ RV (33 TOTAL RV) = 924 GPD USAGE FROM CAMPSITES Q = 25 CAMPSITES (2 PEOPLE/ SITE) (28 GPD / SHOWER) = 1400 GPD

USAGE FROM MANCAMPS

Q = 13 BEDS (28 GPD) = 364 GPD

Q TOTAL = 2688 GPD FOR BOTH BATHHOUSE & SHOWER HOUSE FOR CONSERVATISM THIS IS MORE THAN THE RECOMMENDED TCEQ FLOW

# TOTAL FLOW FOR ENITRE PARK PER TCEQ:

Q<sub>TCEQ-TOTAL-COMPONENT</sub>=1360 GPD + 2104 GPD + 2524 GPD + 360 GPD + 280 GPD= 6628 GPD

# DIRECT RATIO FOR SYSTEM 1 Q COMPONENT:

1360 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

# DIRECT RATIO FOR SYSTEM 2 Q COMPONENT:

2104 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 1463 GPD FOR SYSTEM #2

# DIRECT RATIO FOR SYSTEM 3 Q COMPONENT:

2524 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 1755 GPD FOR SYSTEM #3

# DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

360 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q PERMITTED COMPONENT = 251 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT:

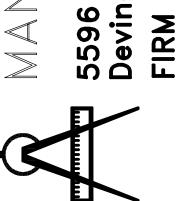
280 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 195 GPD FOR SYSTEM #5

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**Dwa:** 100-8497

Revision: K

**Date:** 1/9/23

**Drawn:** K. Crandall

**Sheet:** 2 of 2





# **OSSF DESIGN**

for Rebecca Creek Campgrounds

**Water Records** 

**REVISED**11:15 am, Apr 07, 2022

Reprinted for:

5/25/2021

12:43:07PM

# **USAGE SUMMARY**

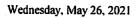
Cypress Cove Water Supply Corporat

MONTH	TOTAL USAGE	# CUSTOMERS	MONTH AVG	DAILY AVG	% OF YEARLY USAGE
January	39920	1	39,920	1,288	5.41
February	100510	I	100,510	3,590	13.62
March	49430	1	49,430	1,595	6.70
April	50050	t	50,050	1,668	6.78
May	79700	1	79,700	2,571	10.80
June	81450	1	81,450	2,715	11.04
July	71140	1	71,140	2,295	9.64
August	85390	1	85,390	2,755	11.58
September	60960	1	60,960	2,032	8.26
October	46030	1	46,030	1,485	6,24
November	38280	1	38,280	1,276	5.19
December	34830	i	34,830	1,124	4.72
Total Usage	737,690gallons	12			100.00
Total Sales		5,388.67	Average Sales	5,388.67	,
Monthly Avg.	61,474		Daily Avg.	2,021	

**Individual Accounts** 

Cypress Cove Water Supply Corp





**REVISED**11:16 am, Apr 07, 2022

Reprinted for:

5/25/2021

12:42:17PM

# **USAGE SUMMARY**

Cypress Cove Water Supply Corporat

MONTH	TOTAL USAGE	# CUSTOMERS	MONTH AVG	DAILY AVG	% OF YEARLY USAGE
January	7630	1	7,630	246	4.34
February	12850	1	12,850	459	7.32
March	12170	ı	12,170	393	6.93
April	30480	1	30,480	1,016	17.35
Мау	19260	1	19,260	621	10.96
June	21120	I	21,120	704	12.02
July	16830	1	16,830	543	9.58
August	16950	1	16,950	547	9.65
September	12440	I	12,440	415	7.08
October	. 9420	. 1	9,420	304	5.36
November	9600	1	9,600	320	5.47
December	6910	1	6,910	223	3.93
Total Usage	175,660gallons	12			100.00
Total Sales		1,469.64	Average Sales	1,469.64	<b>\$</b>
Monthly Avg.	14,638	•	Daily Avg.	481	

**Individual Accounts** 

Cypress Cove Water Supply Corp

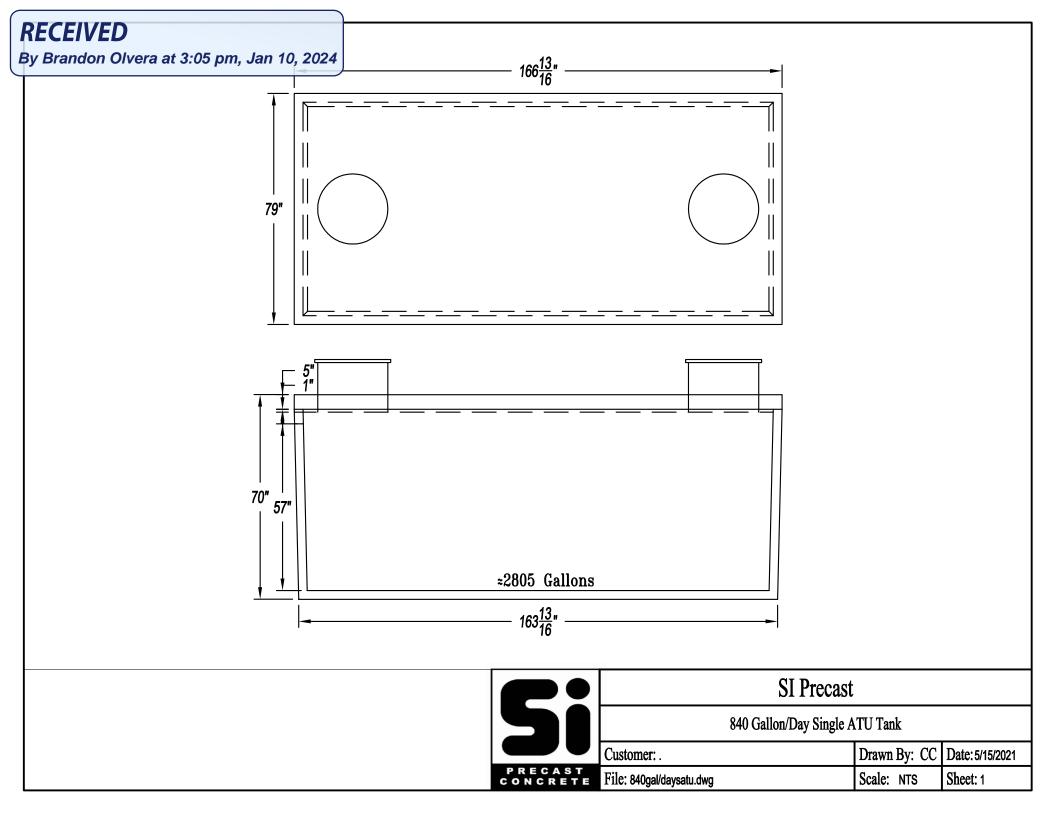


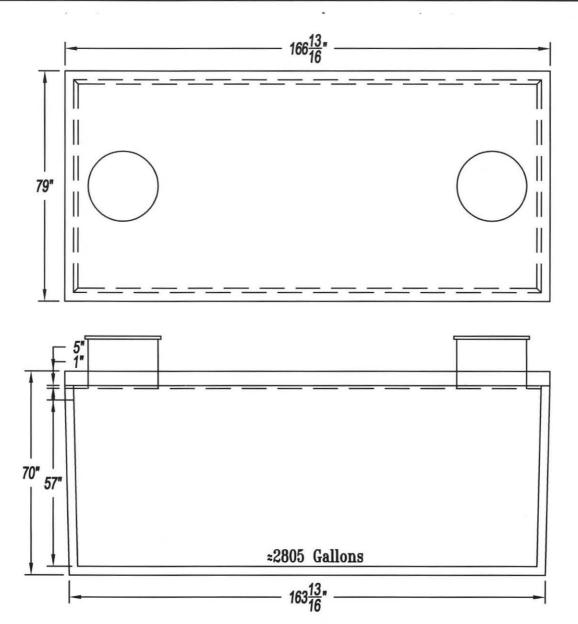


# **OSSF DESIGN**

for Rebecca Creek Campgrounds

**Specifications** 





# **RECEIVED**

By Brandon Olvera at 9:04 am, Oct 18, 2023



# SI Precast

840 Gallon/Day Single ATU Tank

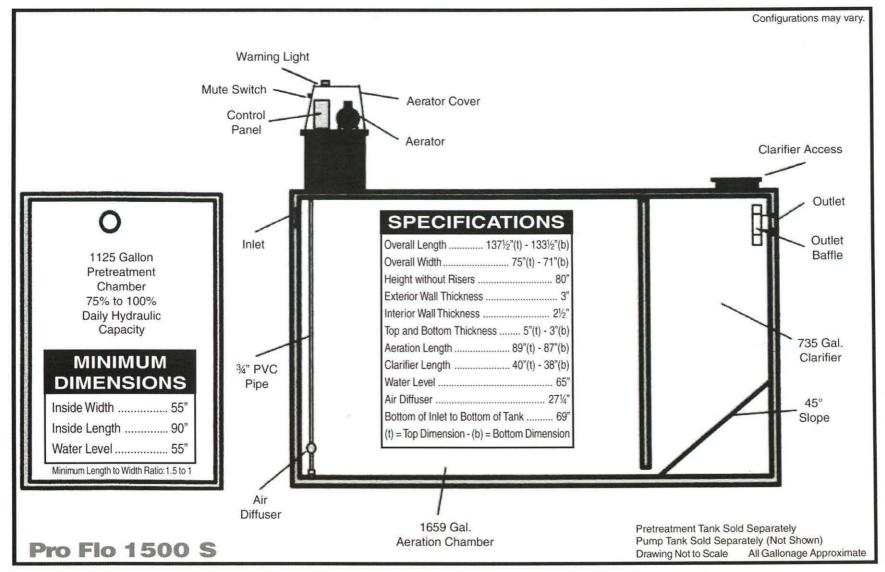
Customer: .

Drawn By: CC Date: 5/15/2021

File: 840gal/daysatu.dwg

Scale: NTS S

Sheet: 1





### Stephen Mangold <stevemangold1@gmail.com>

### specs on pump

1 message

# **RECEIVED**

By Brandon Olvera at 9:04 am, Oct 18, 2023

RCC <rebeccacreekcampgrounds@gmail.com>

To: Steve Mangold Environmental Engineer <stevemangold1@gmail.com>



### **General Information**

**Product Category** 

Sump Pump

### Base

Base Material	
Min Sump Basin	Size

Cast Iron

18 Inch

### Motor

Voltage
---------

120 Volt

Running Amps

7

Thermal Protection

Yes

Oil Free Motor

No

Nominal Voltage

120 Volt

Starting Amps

14

### Pump

Gallons Per Minute

31.25 Gallons

Outlet Diameter

2 Inch

Engineng Material	Cast Iron
Bolisepharelling Size	27 to tolo
Handles Solids	Yes
Oyery if ead Lift	35 Feet
Producty Seategory	<b>Serripal</b> P Front
Meight O feet	<b>36</b> 形ounds
GPh\$@n5rf&darranty	287æars
<b>は</b> ₱9 @ 10 feet	782910407001
Satistian 210 Mediel Numbers	469300, 400700ZP
Discharge Port Size	2 Inch



Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.





SHIP TO: 3649 Cane Run Road . Louisville, KY 40211-1961

(502) 778-2731 · 1 (800) 928-PUMP · FAX (502) 774-3624



SECTION: 2,30,015

FM1495 0500 persedes

Supersedes 1097

visit our web site: http://www.zoeller.com

### **COMPARE THESE FEATURES**

- Non-Clogging Vortex Impeller Design.
- · Float operated, submersible (NEMA 6) 2 pole switch.
- Durable cast iron construction. Cast iron switch cap, motor, and pump housing.
- Stainless steel screws, bolts, handle, guard, arm and seal assembly.
- Engineered, glass-filled, plastic impeller with metal insert.
- UL-listed 3-wire cord and plug. 15 ft. cord standard for automatic & nonautomatic.
- · Corrosion resistant powder coated epoxy finish.
- Thermal overload protection.
- · Oil filled PSC motor hermetically sealed.
- · Engineered plastic base.
- .4 H.P. 115V & 230V, 1Ph., 60 cycle, 1725 RPM.
- · Carbon and ceramic shaft seal.
- · Oil Lubricated Bearings.
- · Passes 2-inch spherical solids.
- · 2" NPT Discharge.
- On point 12½"
- Off point 4½"

# SIMPLEX AND DUPLEX SYSTEMS AVAILABLE





Manufacturers of . .

"QUALITY PUMPS SINCE 1939"

# "WASTE-MATE"

(For Pump Prefix Identification see News & Views 0052)

**SUBMERSIBLE** 



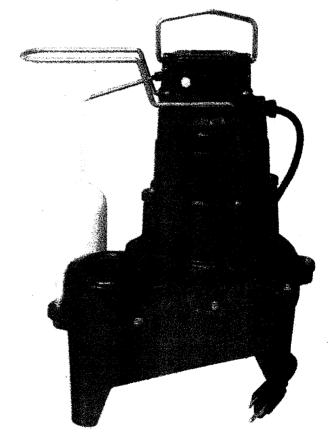
SEWAGE/EFFLUENT\*
OR DEWATERING PUMP
2" NPT DISCHARGE







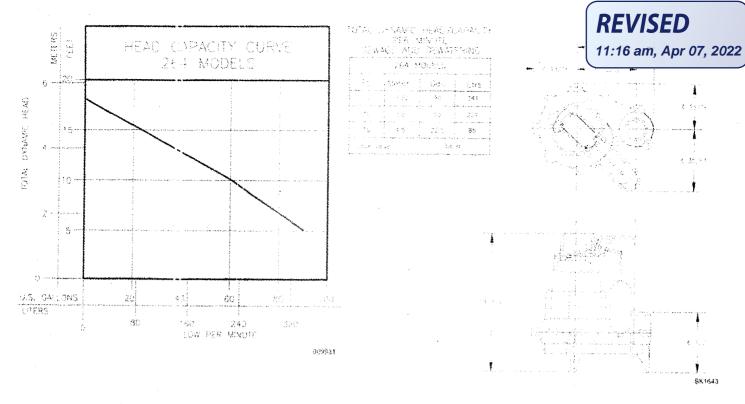




#### MODELS AVAILABLE

- Automatic
- · Nonautomatic (for variable level systems)
- BE & BN264 available packaged with Piggyback variable level float switch.

\*May be used in those states where codes do not restrict solids size in effluent systems.



### **CONSULT FACTORY FOR SPECIAL APPLICATIONS**

- Electrical alternators for duplex systems available with variable level float switches.
- Minimum recommended basin size Simplex-18"x30" Duplex-30"x30"
- Standard Automatic Weight 39 lbs. .4 H.P.

- · High water alarms available.
- · Mechanical alternators available for duplex systems.

dewatering must be limited to 130° F. (54° C.)
For over 130° F. (54° C.) special quotation required.

	264 MODELS				CONTROL SELECTION			
Model	Volts	Ph	Mode	Amps	Simplex	Duplex		
M264	115	1	Auto	9.4	1 or 1 & 7			
-N264	115	1	Non	9.4	2 or 2 & 6	3 or 4 & 5		
D264	230	1	Auto	4.7	1 or 1 & 7	the residence of the second		
E264	230	1	Non	4.7	2 or 2 & 6	3 or 4 & 5		

### SELECTION GUIDE

- 1. Integral float operated 2-pole mechanical switch, no external control required.
- 2. Single piggyback variable level float switch, or double piggyback variable level float switch. Refer to FM0477.
- 3. Mechanical alternator M-PEk 10-0072 or 10-0075.
- 4. See FM0712 for correct model of electrical alternator.
- 5. Control switch 10-0225 used as a control activator specify duplex (3) or (4) float system.

Por information bit additional Zoeller products roller to - a alog on Piggylback Variable Level Float Switches FM0477 Electrical Alternator, PAN486, Machamod Alestrator, 14,8485; SurriorSewaye Basina, FM0487, and Simple Phase Simplex Pump Control, FM1596; Alarm System, FM07.1.

#### & CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

### RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.





MAIL TO: P.O. BOX 16347 LOUBSHIE KY 40256-0347 SHIP TO: 3649 Cene Run Road Louisville, KY 40211-1961 (502) 778-2731 - 1 (800) 928-PUMF FAX (802) 774-3624

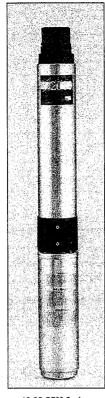
Manufacturers of . .

"Quality Punges Since 1999"









10-30 GPM Series  $Max \ O.D. = 3-7/8'$ 

### Series J

Composite and Stainless

Precision-engineered, corrosionresistant Signature 2000® Series J pumps in 5, 7, 10, 15, 20 and 30 GPM models deliver efficient, dependable performance even in rough, aggressive water. Heads to over 700 feet and capacities to 45 GPM. Built to deliver long-term, troublefree service.

These pumps feature the patented Signa-Seal™ staging system. Floating stack design resists sand and reduces sand locking.

The 5 & 7 GPM models are the smaller diameter. TrimLine™ design; 10, 15, 20, and 30 GPM are standard models.







UL Classified to ANSI/NSF Standard 61, Drinking Water System Components -Health Effects



Shell - stainless steel

Discharge - fiberglass-reinforced thermoplastic

Discharge bearing - Nylatron® Intermediate bearing - (on larger units) polycarbonate, nitrile rubber, and stainless steel

Impellers - Acetal

Diffusers - Polycarbonate

Suction caps - Polycarbonate with stainless steel insert

Thrust pads - proprietary spec.

Shaft and coupling - stainless steel

Intake - fiberglass-reinforced thermoplastic

Intake screen - polypropylene

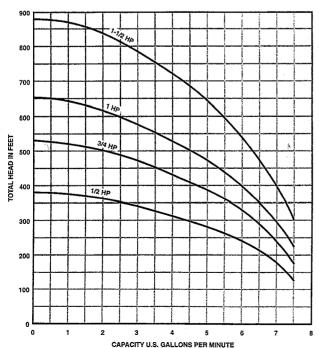
Check valve - durable internal

check valve

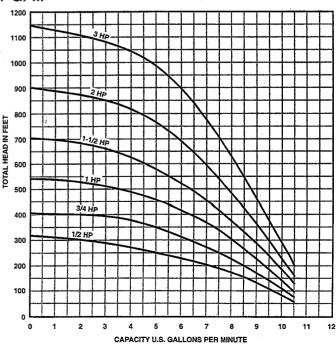
Cable quard - stainless steel Agency Listings - UL 778, CSA

and NSF

### **PUMP PERFORMANCE** 5 GPM

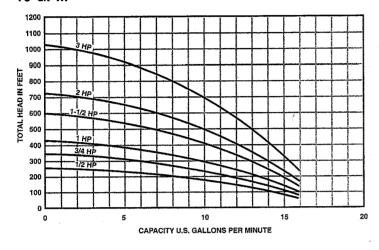


### 7 GPM

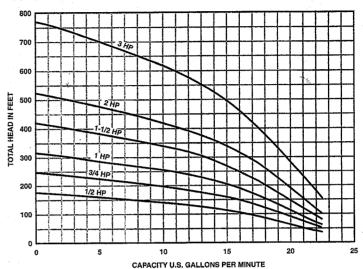




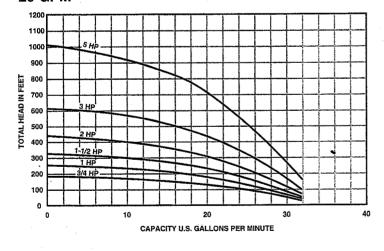
### PUMP PERFORMANCE 10 GPM



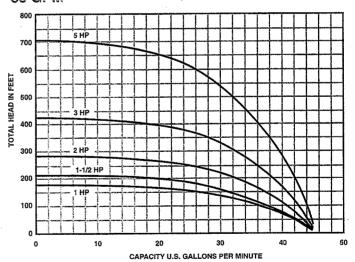
### **15 GPM**



### **20 GPM**



### 30 GPW





### **ORDERING INFORMATION**

							3 Wire			2 Wire	
Series	HP	Motor Voltage	Phase	Stages	Disch.	Catalog No.	Approx. Wt. Lbs.*	Length Inches*	Catalog No.	Approx. Wt. Lbs.*	Length Inches*
	1/2	115	1	5	1-1/4"	15P4C01J	27	22-1/4	15SP4C01J	27	22-1/4
	1/2	230	11.01	5	1-1/4"	15P4C02J	27	22-1/4	15SP4C02J	27	22-1/4
	3/4	230	1	7	1-1/4"	15P4D02J	₹ 31	25-3/4	15SP4D02J	31	25-3/4
	1	230	1	9	1-1/4"	15P4E02J	35	29-1/4	15SP4E02J	35	29-1/4
		230	1	12 (	1-1/4"	15P4F02J	41	33-3/4	15SP4F02J	43	35-1/4
	1-1/2	230	3	12	1-1/4"	15P4F03J	38	32-1/2			
15		460	3	12	1-1/4"	15P4F04J	38	32-1/2			
	·	230	1	15	1-1/4"	15P4G02J	44	38-1/2			
	2	230	3	15	1-1/4"	15P4G03J	42	37			
		460	3	15	1-1/4"	15P4G04J	42	37			
		230	1	22	1-1/4"	15P4H02J	69	54-3/4			
	3	230	3	22	1-1/4"	15P4H03J	60	52			
		460	3	22	1-1/4"	15P4H04J	60	52			
	3/4	230		5	1-1/4"	20P4D02J	30	23-3/4	20SP4D02J	30	23-3/4
	1	230	1	7	1-1/4"	20P4E02J	34	27-1/4	20SP4E02J	34	27-1/4
		230	1 4 Z	9	1-1/4"	20P4F02J	39	30-1/2	20SP4F02J	39	32
	1-1/2	230	3	9	1-1/4"	20P4F03J	37	29-1/4			
		460	3	9	1-1/4"	20P4F04J	37	29-1/4			
	•	230	1	12	1-1/4"	20P4G02J	42	35-1/4			
20	2	230	3	12	1-1/4"	20P4G03J	39	33-3/4			
20 .	·	460	3	12	1-1/4"	20P4G04J	39	33-3/4			
		230	1	17	1-1/4"	20P4H02J	67	49-1/4	1.0		
	3	230	3	17	1-1/4"	20P4H03J	58	46-1/2			
		460	3	17	1-1/4"	20P4H04J	58	46-1/2			
		230	1	28	1-1/4"	20P4J02J	89	67-1/2			
	5	230	3	28	1-1/4"	20P4J03J	74	61-1/2			13.3
		460	3	28	1-1/4"	20P4J04J	74	61-1/2			
	1	230	11	5	1-1/4"	30P4E02J	35	26-1/2	30SP4E02J	35	26-1/2
		230	1	6	1-1/4"	30P4F02J	39	29	30SP4F02J	39	30-1/2
, .	1-1/2	230	3	6	1-1/4"	30P4F03J	36	28			
		460	3	6	1-1/4"	30P4F04J	36	28			
		230	1	8	1-1/4"	30P4G02J	42	33-1/4	<del>-</del>		4
30	. 2	230	3	8	1-1/4"	30P4G03J	37	32-1/4	_		
30	4	460	3	8	1-1/4"	30P4G04J	37	32-1/4			
		230	1	12	1-1/4"	30P4H02J	66	47-1/2			
	3	230	3	12	1-1/4"	30P4H03J	57	44-3/4	-		
		460	3	12	1-1/4"	30P4H04J	57	44-3/4	_		
		230	1	20	1-1/4"	30P4J02J	89	65-1/4	<del>-</del>	- 14 T.F	
	5	230	3	20	1-1/4"	30P4J03J	73	59-1/4	T -		
•	•	460	3	20	1-1/4"	30P4J04J	73	59-1/4		1 1	·

<sup>\*</sup>Length and weight are approximate.

Standard version maximum outside diameter 3-7/8"

NOTE: Control box or magnetic starter must be ordered separately.





### **ORDERING INFORMATION - PUMP ENDS**

Series	НР	Stages	Disch.	Catalog No.	Approx. Wt. Lbs.*	Length Inches*
	1/2	13	1-1/4"	L5P4CJL	12	18
_	3/4	18	1-1/4"	L5P4DJL	15	22
5		22	1-1/4"	L5P4EJL	17	25-1/4
	1-1/2	30	1-1/4"	L5P4FJL	21	32
	1/2	10	1-1/4"	L7P4CJL	jį .	16
	3/4	13	1-1/4"	L7P4DJL	13	18-1/2
		17	1-1/4"	L7P4EJL	15	22
7	1-1/2	22	1-1/4"	L7P4FJL	17	27-1/4
	2	28	1-1/4"	L7P4GJL	20	32-1/2
	3	36	1-1/4"	L7P4HJL	24	39-1/2
	1/2	6	1-1/4"	L10P4GJ	8-1/2	12
	3/4	8	1-1/4"	L10P4DJ	9-1/2	13-3/4
10		10	1-1/4"	L10P4EJ	10-1/4	15-1/2
	1-1/2	14	1-1/4"	L10P4FJ	12	19
	2	17	1-1/4"	L10P4GJ	13-1/2	21-1/2
	3	24	1-1/4"	L10P4HJ	16-1/2	27-1/2
·	1/2	5 5	1-1/4"	L15P4CJ	9	12-1/4
	3/4	7	1-1/4"	L15P4DJ	10	14-1/2
15		9	1-1/4"	L15P4EJ	11	16-3/4
10	1-1/2	12	1-1/4"	L15P4FJ	13	20-1/4
	2	15	1-1/4"	L15P4GJ	15	23-1/2
	3	22	1-1/4"	L15P4HJ	18	31-1/4
	3/4	5	1-1/4"	L20P4DJ	8-1/2	12-1/2
	1	7	1-1/4"	L20P4EJ	9-3/4	14-3/4
20	1-1/2	9 11 11	1-1/4"	L20P4FJ	10-3/4	16-3/4
	2	12	1-1/4"	L20P4GJ	12-1/2	20-1/4
	3	17	1-1/4"	L20P4HJ	15	25-3/4
	5	28	1-1/4"	L20P4JJ	21	38
		5	1-1/4"	L30P4EJ	10	14
	1-1/2	6	1-1/4"	L30P4FJ	11	15-1/4
30	2	8	1-1/4"	L30P4GJ	12	18-1/4
	3	12	1-1/4"	L30P4HJ	15	24
	5	20	1-1/4"	L30P4JJ	20	35-3/4

<sup>\*</sup>Length and weight are approximate.

Standard version maximum outside diameter 3-7/8".

NOTE: Motor, control box or magnetic starter must be ordered separately.

TrimLine™yersion maximum outside diameter 3-3/4".

# **EFFLUENT PUMPS**

# Little GIANT.

**REVISED** 

11:17 am, Apr 07, 2022

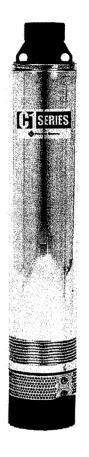
### C1 SERIES - 1/2 HP

### **APPLICATIONS**

Gray water pumping, filtered effluent service water pumping, water reclamation projects such as pumping from rain catchment basins, aeration and other fountain or pond applications, agriculture and livestock water pumping

### **FEATURES**

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a maximum shut-off pressure of 100 psi
- Heavy-duty 600 V 10 foot SJ00W jacketed lead



### SERIES SPECIFICATIONS

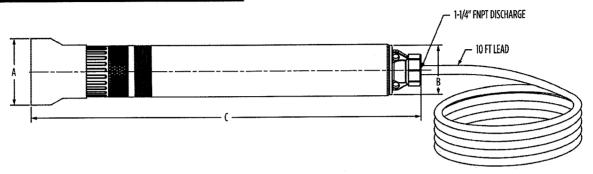
Item No	Manuel	HP	Volts		Chance	Ame	Watts	: : Wire		hut-Off ead		Head ed Flow	Max		Head x. GPM	Max. Amps
ценно :	Model	BP	VOIIS	Hz	Stages	Amps	Widtts	. 4486	PSI	FT	PSI	FT	SPM	PSI	FT	1 (J.A.) 71.11(J.2)
90301005	10CI-05P4-2W115	1/2	315	60	7	9.0	920	2	93	215	50	115	34	22	50	10
90301010	10C1-05P4-2W230	1/2	230	60	7	4.5	920	2	93	215	50	115	14	22	50	5
90302005	20CI-05P4-2W11S	1/2		60	5	9.0	920	2	. 56	130	34	78	28	9	20	10
90302010	20C1-05P4-2W230	1/2	230	60	5	4.5	920	2	56	130	34	78	28	9	20	5
90302015	20XC1-05P4-2W115	1/2	115	60	6	9,0	920	2	68	156	37	85	28	9	21	10
90302020	20XC1-05P4-2W230	1/2	230	60	6	4.5	920	2	68	156	37	85	28	9	21	5.
90303005	30C1-05P4-2W115	1/2	115	60	4	9.0	920	* 2	39	89 😘	19	:45*	35	13	29	10
90303010	30C1-05P4-2W230	1/2	230	60	4	4.5	920	2	39	89	19	45	35	13	29	50



# **EFFLUENT PUMPS**

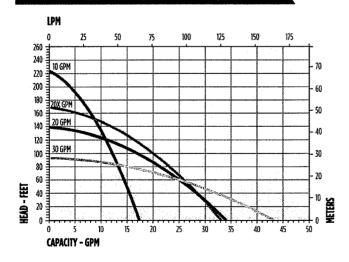
### C1 SERIES - 1/2 HP

# ENGINEERING DATA



Item No	Model	А	8	Ċ
90301005	10C1-05P4-2W115	5" 12.70 cm	3.9" 9.91cm	26" 66.04 cm
90301010	10C1-05P4-2W230	5" 12.70 cm	3.9" 9.91 cm	26" 66.04 cm
90302005	20C1-05P4-2W115	5** 12.70 cm	3.9" 9.91 cm	26" 66.04 cm
90302010	20C1-05P4-2W230	5" 12.70 cm	3.9" 9.91 cm	26" 66.04 cm
90302015	20XC1-05P4-2W115	5' 12.70 cm	3.9° 9.91.cm	26" 66.04.cm
90302020	20XC1-05P4-2W230	5" 12.70 cm	3.9" 9.91 cm	26" 66.04 cm
90303005	30CI-05P4-2W115	5" 12.70 cm	3.9" 9.91cm	26" 66.04 cm
90303010	30C1-05P4-2W230	5" 12.70 cm	3.9" 9.91 cm	26" 66.04 cm

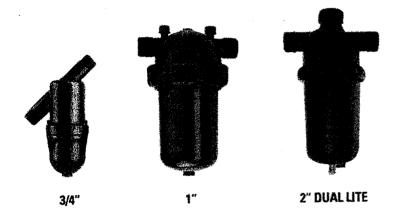
# PERFORMANCE DATA





# MANUAL DISC FILTERS

# RELIABLE, EFFICIENT PLASTIC DISCS CREATE SUPERIOR FILTRATION



### PREMINEAUVANIZATES

- Highly effective multiple disc ring design captures and holds more debris.
- Greater holding capacity of the rings vs. screen filters mean less frequent cleaning.
- Rings are easily removed for fast cleaning without the need for scrubbing.
- Color-coded disc rings make identification of mesh rating fast and easy.

### **APPLICATIONS**

- · Primary irrigation filter for relatively clean or average water quality
- · Protection of irrigation systems from clogging and/or abrasion



MESH	ICRON MICRON	DISC COLO
040	400	Blue
080	200	Yellow
120	130	Red
140	115	Black
200	55	Green

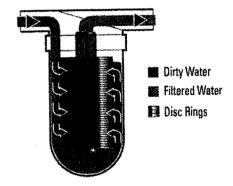
Substitute \*\*\* in Model Number for proper mesh.

### THE FILTERING PROCESS

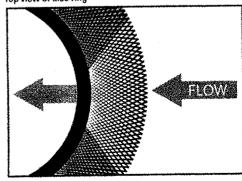
Grooved, compressed plastic disc rings produce a deep filtration process. As dirty water is pumped into the filter and pressure increases on the outside of the filter, the water pressure compresses the rings together tightly.

Grooves in the disc rings crisscross, forming a three dimensional network that traps particles. The number of crisscrossed intersection points on each groove varies, depending on filtration grade. The turbulence in the varying paths and the large number of intersections create an environment where particles are eventually trapped.

This design filters the dirty water thoroughly, not only on the outer surface of the cylindrical disc filter, but through the entire depth of every ring's grooves. The result is a larger, more efficient filtering area (when compared to screen filters) with more debris being captured and cleaner water exiting from the filter.



Top view of disc ring



# MANUAL DISC FILTERS



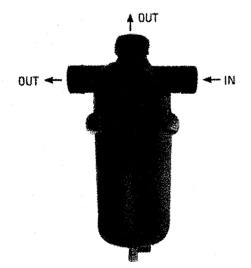
3/4" FILTER							
FLOW RANGE	1 - 12 GPM						
MAXIMUM PRESSURE	140 psi						
FILTERING SURFACE AREA	25 sq. in.						
FILTERING VOLUME	5.8 cu. in.						
LENGTH	5 22/32"						
WIDTH	7 15/32"						
WEIGHT	.66 lbs.						
DISTANCE BETWEEN ENDS	6"						
INLET/OUTLET DIAMETER	3/4" Male						
MODEL NUMBER	25A45-***						

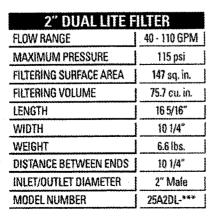


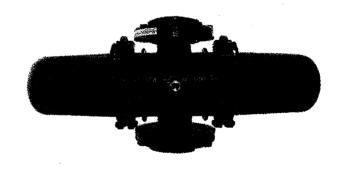
1" FILTER				
FLOW RANGE	5 - 26 GPM			
MAXIMUM PRESSURE	140 psi			
FILTERING SURFACE AREA	49 sq. în.			
FILTERING VOLUME	27 cu. in.			
LENGTH	911/32"			
WIDTH	67/32"			
WEIGHT	2.21bs.			
DISTANCE BETWEEN ENDS	6 7/32"			
INLET/OUTLET DIAMETER	1" Male			
MODEL NUMBER	25A47-***			



1" SUPER FILTER				
FLOW RANGE	10 - 35 GPM			
MAXIMUM PRESSURE	140 psi			
FILTERING SURFACE AREA	78 sq. in.			
FILTERING VOLUME	36 cu. în.			
LENGTH	13 13/32"			
WIOTH	6 7/32"			
WEIGHT	3.11 lbs.			
DISTANCE BETWEEN ENDS	6 7/32"			
INLET/OUTLET DIAMETER	1" Male			
MODEL NUMBER	25A48-***			







3" TWIN LITE FILTER				
FLOW RANGE	80 - 220 GPM			
MAXIMUM PRESSURE	115 psi			
FILTERING SURFACE AREA	294.5 sq. in.			
FILTERING VOLUME	174 cu. in.			
LENGTH	28 3/4"			
WIDTH	9 14/32"			
WEIGHT	171bs.			
DISTANCE BETWEEN ENDS	12 19/32"			
INLET/OUTLET DIAMETER	3" Flanged			
MODEL NUMBER	25A3TL-***F			



1 ½" FILTER					
FLOW RANGE	10 - 35 GPM				
MAXIMUM PRESSURE	140 psi				
FILTERING SURFACE AREA	49 sq. in.				
FILTERING VOLUME	27 cu. in.				
LENGTH	10 5/8"				
WIOTH	7 7/8"				
WEIGHT	2.4 lbs.				
DISTANCE BETWEEN ENDS	77/8"				
INLET/OUTLET DIAMETER	1 1/2" Male				
MODEL NUMBER	25A15-***				



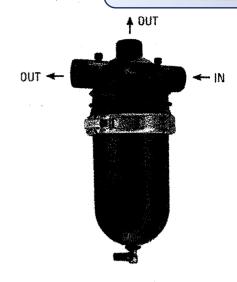
GROOVED

3" ANGLE FILTER					
FLOW RANGE	80 - 220 GPM				
MAXIMUM PRESSURE	140 psi				
FILTERING SURFACE AREA	287 sq. in.				
FILTERING VOLUME	108 cu. in.				
LENGTH	24 7/8"				
WIDTH	12 3/32"				
WEIGHT	31 lbs.				
INLET/OUTLET DIAMETER	3"				
MODEL NUMBER - FLANGED	25A53-***FNEW				
MODEL NUMBER - GROOVED	25A53-***GNFW				

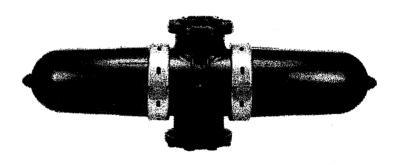
FLANGED



1 ½" SUPER FILTER				
FLOW RANGE	10 - 52 GPM			
MAXIMUM PRESSURE	140 psi			
FILTERING SURFACE AREA	78 sq. in.			
FILTERING VOLUME	36 cu. in.			
LENGTH	14 1/2"			
WIDTH	7 7/8"			
WEIGHT	3.3 lbs.			
DISTANCE BETWEEN ENDS	77/8"			
INLET/OUTLET DIAMETER	1 1/2" Male			
MODEL NUMBER	25A17-***			



2" DUAL HP FILTER				
FLOW RANGE	40 - 120 GPM			
MAXIMUM PRESSURE	174 psi			
FILTERING SURFACE AREA	147 sq. in.			
FILTERING VOLUME	75 cu. in.			
LENGTH	14 3/4"			
WIDTH	10 1/4"			
WEIGHT	11 lbs.			
DISTANCE BETWEEN ENDS	10 1/4"			
INLET/OUTLET DIAMETER	2" Male			
MODEL NUMBER	25A30-***			



4" TWIN FILTER				
FLOW RANGE	160 - 450 GPM			
MAXIMUM PRESSURE	140 psi			
FILTERING SURFACE AREA	574 sq. in.			
FILTERING VOLUME	216 cu. in.			
LENGTH	47"			
WIDTH	13"			
WEIGHT	52.8 lbs.			
DISTANCE BETWEEN ENDS	17 17/32"			
INLET/OUTLET DIAMETER	4" Flanged			
MODEL NUMBER	25A78-***F			

6" TWIN FILTER				
FLOW RANGE	200 - 600 GPM			
MAXIMUM PRESSURE	140 psi			
FILTERING SURFACE AREA	574 sq. in.			
FILTERING VOLUME	216 cu. in.			
LENGTH	47"			
WIDTH	13"			
WEIGHT	57.2 lbs.			
DISTANCE BETWEEN ENDS	17 17/32"			
INLET/OUTLET DIAMETER	6" Flanged			
MODEL NUMBER	25A80-***F			

### **MANUAL DISC FILTERS**



LOW RATE	HEADLOSS (psi)										
(GPM)	3/4"	1″	1" SUPER	1 1/2"	1 1/2" SUPER	2" DUAL HP	2" DUAL LITE	3" TWIN LITE	3" ANGLE	4" TWIN	6" TWIN
5	0.60	0.25									
10	2.50	0.60						<u> </u>			
13	3,40	1.34									
17	5.87	2.10									
22		3.24	1.10	1.10							
26			1.50	1,30	1.50						
31			2.10	1.70	2.10						
35			2.50	2.30	2.50						
44				10.200000000000000000000000000000000000	4.20	0.30	0.30				
66						0.63	0.63				
88	1				***************************************	1.03	1.03	0.64	0.44		
110						147	1.47	0.98	0.58		
132						and the second of the processing of the processi		1.37	0.73		
154					·			1.80	0.88		
176							***************************************	2.28	1.03		
198								The state of the s	1.32		
220									1,61		
242											
264				-							
286											
308	]									1.40	1.00
330	1									1.50	1.20
350					·		*****			1.60	1.30
400	1			<del></del>						2.00	1.50
500											2.00
600			,	<del></del>		1					3.00

CHART LEGEND

0.00

0.00 River, ditch, pond, lake or reservoir water

0.00 Well water containing sand only

Municipal supply

ODDEDING INCODMATION

UKDEKING INFUKWATIUN				
FILTER SIZE	MODEL NUMBER			
3/4"	25A45-***			
14	25A47-***			
1" SUPER	25A48-***			
1 1/2"	25A15-***			
1 1/2" SUPER	25A17-***			
2" DUAL HP	25A30-***			
2" DUAL LITE	25A2DL-***			
3" TWIN LITE	25A3TL-***F			
3" ANGLE FLANGED	25A53-***FNEW			
3" ANGLE GROOVED	25A53-***GNEW			
4" TWIN FLANGED	25A78-***F			
6" TWIN FLANGED	25A80-***F			

Substitute \*\*\* for proper mesh size.

### **MATERIALS**

■ Disc Rings: Polypropylene

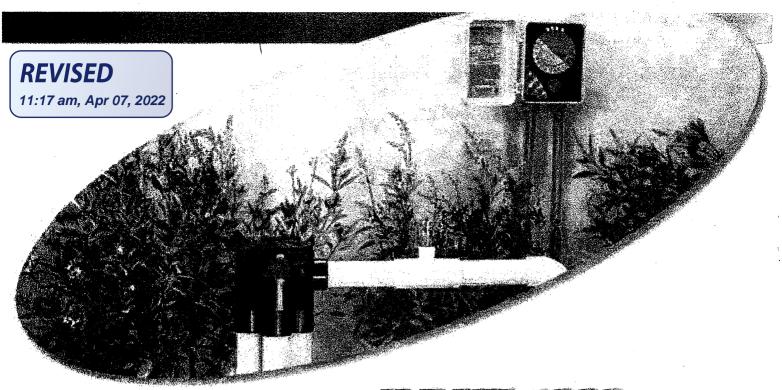
O-Rings: EPDM Rubber

Clamp: Stainless Steel (except 2" Dual Lite and 3" Twin Lite which is Plastic)

The losses shown are for filters with 140 Mesh



**NETAFIM USA** 5470 E. HOME AVE. FRESNO, CA 93727 CS 888 638 2346 www.netafimusa.com





# K-RAM 4000 USTELLINE VILLES THE NEXT CENERATION OF PROFESSIONAL PROFESS

#### FEATURES/BENEFITS

- 2 Year Trade Warranty- Factory support up to two years after purchase.
- ABS Polymer Construction- High-strength, non-corrosive body for long product life.
- Available in 4 and 6 Outlet Models- Can quickly and easily change from two to six watering zones.
- Simplicity of Design- Valves are easily maintained and serviced for long product life.
- Operates at Low 10 GPM at Pressures of 25-75 PSI-Reliably automates multiple zoned residential and small commercial irrigation or wastewater systems.



### REVISED

11:18 am, Apr 07, 2022

### K-RAIN MODEL 4000: DISTRIBUTING VALVE

The 4000 distributing valve offers a reliable, economical way to automate multiple zoned residential and small commercial irrigation systems. The simplicity of design and a minimum of moving parts ensures ease of maintenance and long service life.

These patented valves allow for the number of watering zones to be changed quickly and easily. They are ideally suited for both city water and pump applications and may also be used for onsite wastewater or effluent water applications.

The 4000 valve is available in 4 or 6 outlet models. A quick change of the cam allows the valve to operate from 2 to 6 zones. The valve will operate with flows as low as 10 GPM and at pressures of 25 to 75 PSI.

The distributing valve shall carry a two-year trade warranty against manufacturing defects.

# HOW TO SPECIFY 4402 Series — Zones Outlets



IRRIGATION SOLUTIONS WAS INVENE

K-Rain Manufacturing Corp.
1640 Australian Avenue
Riviera Beach, FL 33404 USA
PH: 1-561-844-1002 FAX: 1-561-842-9493
1-800-735-7246
EMAIL: krain@k-rain.com
WEB: http://www.k-rain.com

#### MODELS

4 Outlet -	1	1/4" x	1	1/4"	Models
------------	---	--------	---	------	--------

4400	No Cam
4402	Cammed for 2 Zone Operation
4403	Cammed for 3 Zone Operation
4404	Cammed for 4 Zone Operation

Other Options: Add to Part Number **RCW** Reclaimed Water Use

No Cam

#### 4 Outlet - 1" x 1" Models

4410

7710	NO Odili	
4412	Cammed for 2 Zone Operation	
4413	Cammed for 3 Zone Operation	

4414 Cammed for 4 Zone Operation

#### 6 Dutlet - 1 1/4" x 1" Models

4600	No Cam
4602	Cammed for 2 Zone Operation
4603	Cammed for 3 Zone Operation
4604	Cammed for 4 Zone Operation
4605	Cammed for 5 Zone Operation
4606	Cammed for 6

Other Options: Add to Part Number RCW Reclaimed Water Use

Zone Operation

#### 6 Outlet - 1" x 1" Models

4010	No Cam
4612	Cammed for 2 Zone Operation
4613	Cammed for 3 Zone Operation
4614	Cammed for 4 Zone Operation
4615	Cammed for 5 Zone Operation
4616	Cammed for 6 Zone Operation

#### SPECIFICATIONS

 Constructed of High Strength, Non-Corrosive ABS Polymer

■ Flow Range:

4 Outlet Valve: 10-40 GPM 6 Outlet Valve: 10-25 GPM

■ Pressure Rating: 25 - 75 PSI

■ Pressure Loss:

 4 Outlet Valve

 Flow (GPM)
 10
 20
 30
 40

 PSI Loss
 2.0
 3.0
 4.5
 6.4

 6 Outlet Valve

 Flow (GPM)
 10
 20
 30

 PSI Loss
 2.5
 4.5
 7.5

Inlet: Slip and Glue Connection 4400 Series: to 1 1/4" PVC Pipe 4410 Series: to 1" PVC Pipe 4600 Series: to 1 1/4" PVC Pipe 4610 Series: to 1" PVC Pipe

 Outlets: Slip and Glue Connections 4400 Series: to 1 1/4" PVC Pipe 4410 Series: to 1" PVC Pipe 4600 Series: to 1" PVC Pipe 4610 Series: to 1" PVC Pipe

■ Dimensions: Height: 5-3/4" Width: 5-3/4"

### INSTALLATION TIPS

We Recommend the Installation of an Atmospheric Vacuum Breaker Between the Pump and the Valve. From: Magley, Wesley

To: <u>"rebeccacreekcampgrounds@gmail.com"</u>

Cc: <u>"stevemangold1@gmail.com"</u>

**Subject:** Permits 113609,113610,113611,113612 **Date:** Wednesday, November 17, 2021 11:29:00 AM

Attachments: <u>image001.png</u>

113609 Site Map.pdf

RE: 14.23 acres out of the Charles Murhardt Survey, Abstract 404/3660 Tanglewood Trail.

Property Owner & Agent,

We received planning materials for the referenced permit application on 11/16/21 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:

- The site map is not legible. Please provide a digital copy of the site map so we can verify accordingly. (see attached)
- 2. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank you,



### Wesley A. Magley

Health Inspector DR # OS0035625 195 David Jonas Dr. New Braunfels, TX 78132 830-608-2090 830-643-3770 maglew@co.comal.tx.us

#### Boyd, Robert

From: Donna Cosper <donna.cosper@tceq.texas.gov>

Sent: Wednesday, February 23, 2022 1:28 PM

**To:** Boyd, Robert

**Subject:** RE: Wastewater Flow vs. Treatment

### This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Hi Robert,

Yes, your summary is correct. They must not go over the permitted daily flow. As we discussed, the generated flow might be more as long as the flow is equalized so that 5000 gpd or less is treated.

On the STR issue, I have not gotten legal's opinion. I know you no longer need their opinion for the case that generated the request but I want to get their take on it and will let you know as soon as I do.

Regards,

Donna Cosper, P.E., M.S.S.E. Texas Commission on Environmental Quality Program Support and Environmental Assistance Division On-Site Sewage Facility Program

From: Boyd, Robert <br/>
Sent: Wednesday, February 23, 2022 1:23 PM<br/>
To: Donna Cosper <donna.cosper@tceq.texas.gov><br/>
Subject: RE: Wastewater Flow vs. Treatment

Donna,

Have you had a chance to review?

Thanks.

Robert Boyd, P.E. Comal County Assistant Engineer 195 David Jonas Drive New Braunfels, TX 78132 O: 830-608-2090

C: 830-358-0516 www.cceo.org

From: Boyd, Robert

Sent: Thursday, February 17, 2022 3:59 PM

To: 'Donna Cosper' < donna.cosper@tceq.texas.gov>

Subject: Wastewater Flow vs. Treatment

Donna,

Thanks for your time on the phone. From our conversation, we understood that we could not issue a permit with a wastewater flowrate greater than 5,000 GPD. However, we could issue a permit that can treat more than 5,000 GPD as long as the permitted flow rate is less than 5,000 GPD. In this scenario, we would also require flow meters on the outflow of the treatment units demonstrating that the development is staying within the permitted flow rate. If the development went above the permitted flow rate or went over 5,000 GPD, it would trigger a violation that could only be resolved by getting a permit from the state.

Is this a correct summary of our discussion?

Thanks.

Robert Boyd, P.E. Comal County Assistant Engineer 195 David Jonas Drive New Braunfels, TX 78132 O: 830-608-2090

C: 830-358-0516 www.cceo.org

# \*3

### \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Date 11/4/21		Permit # 1/3	610
Owner Name Rebecca Creek Camparounds	Agent Name	Michelle We	rtheim
Mailing Address 3660 Tavale was trail	_	3660 Tanaleh	
City, State, Zip SONNA Branch TX 78070	_	SOYINA Branch.	
Phone # (930) 985-4035	Phone #	(830) 446-	
Email Yeloecca Creek around a gmail com	Email	same as aff	
All correspondence should be sent to:   Owner   Age		Method: Mail	
Subdivision Name N/A	Unit	Lot	Block
Acreage/Legal 14.23 ac. Charles Murhart Su	ever abs	16.404	
Street Name/Address 3660	City Syl		Zip 78078
Type of Development:			
Single Family Residential			
Type of Construction (House, Mobile, RN (c.)			
Number of Bedrooms			
Indicate Sq Ft of Living Area			
Non-Single Family Resident			
(Planning materials must show adequate land area for doubling the rec		for treatment units and disp	oosal area)
Type of Facility 5 Cabin   bed in each			
Offices, Factories, Churches, Schools, Parks, Etc Indicate N	lumber Of Occupa	nts	
Restaurants, Lounges, Theaters - Indicate Number of Seats			
Hotel, Motel, Hospital, Nursing Home - Indicate Number of Be-	ds		
Travel Trailer/RV Parks - Indicate Number of Spaces 17	RYSpaces		4
Miscellaneous			
Estimated Cost of Construction: \$ (Structure)	re Only) N/A		
Is any portion of the proposed OSSF located in the United States	s Army Corps of E	ngineers (USACE) flows	age easement?
Yes No (If yes, owner must provide approval from USACE for p	proposed OSSF improv	rements within the USACE flor	wage easement)
Source of Water A Public Private Well	4		
Are Water Saving Devices Being Utilized Within the Residence?	Yes No		
By signing this application, I certify that:  - The completed application and all additional information submitted does facts. I certify that I am the property owner or I possess the appropriate property.	land rights necessar	y to make the permitted im	provements on said
- Authorization is hereby given to the permitting authority and designated site/soil evaluation and inspection of private sewage facilities	agents to enter upor	the above described prop	erty for the purpose of
- I understand that a permit of authorization to construct will not be issued	until the Floodplain	Administrator has perform	ed the reviews required
by the Comal County Flood Damage Prevention Order.  - I affirmatively consent/to the online posting/public release of my e-mail a	ddress associated v	vith this permit application,	as applicable.
MAN	11/10/20	150	
Signature of Owner	Date		Page 1 of 2
195 David Jonas Dr., New Braunfels, Texas 781	32-3760 (830) 608-20	90 Fax (830) 608-2078	Revised February 2020

# \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \* APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site Evaluation as Required Completed By <u>Valleigh Crandall</u>
System Description allock of drip irrigation
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) 2 NUWATER 1500 FTU Absorption/Application Area (Sq Ft) 877542
Gallons Per Day (As Per TCEQ Table III)
totes generating more train 5000 gallons per day are required to obtain a permit through 102-02.)
Is the property located over the Edwards Recharge Zone? Yes No
(If yes, the planning materials roust be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved VIIIP for VIIIP for VIIIP Yes N
(If yes, the R.S. or P.E. shall certify that the SF of English with the program on the existing WPAP.)
If there is no existing WPAP does the track of development and ity quirt a FCEO proved WP/P? Types 17 No
(If yes, the R.S. or P.E. shall contify that the be issued for the proposed OS is until the proposed WPAP is approach by the proposed of the p
Is the property located over the Edwards Contributing Zone? Yes No
Is there an existing TCEQ approval CZP for the property?  Yes No
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP?   Yes No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
Is this property within an incorporated city?   Yes   No
If yes, indicate the city:

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.

- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Designer

Date

Page 2 of 2

### Site Evaluation:

Soil Texture:

Clay loam

Soil Structure:

Blocky

Soil Depth:

18" minimum

Restrictive Horizon:

At 18" min. from surface

Groundwater:

None encountered

Topography:

More than 2% slope on drainfield area

Determination:

Site was determined to have a Class III soil. Due to the park layout and rock horizon an aerobic treatment unit followed by drip irrigation shall be

installed.

### Calculations:

System # 3 is designed for calculations and

Q = 1755 gpd



Two NuWater Model B-1500 aerobic treatment unit, or equal, shall be installed. A 2000 gallon pre-treatment tank and 2000 gallon equalization tank shall be installed preceding the aerobic treatment unit. Following the aerobic treatment unit shall be a 3000 gallon pump tank. The tank system shall be followed by a drip irrigation system. (Reference the System Layout) Chlorinator is required for water entering pump tank compartment. Liquid type chlorination shall be used.

Ra = 0.20 gal. / sq. ft. / day,(For a Class III soil)

A = Q / Ra, A = (1755 gal. / day) / (0.20 gal. / sq. ft. / day) = 8775 sq. ft.

calculations continued on next page....

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location Comal County, Texas

Drawing No.

100-8194



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

9/1/21 Date:

Scale: None

Sheet 1 of 5



### Calculations:

Emitter line shall be used which has emitters spaced at 2 foot intervals, and adjacent emitter lines shall also be spaced at 2 feet on center.

Required line length = A/2 = (8775 sq. ft. / 2 sq. ft. per foot) = 4388 feet 4500' of drip line shall be installed as shown on the System Layout

A 1 1/2" SCH 40 PVC supply line shall be used from the ATU systems pump tank to the drainfield. A 1 1/2" SCH 40 PVC return line from the drainfield back to the pump tank shall be provided. The system shall be set up in accordance with NuWater specifications. (Contact manufacturer for complete specifications and reference the System Layout and details)

NOTES FOR INSTALLER (III applicable).

Do not connect water softener back-wash to septic system.

The TCEQ allows washing may in the feet of the septic system unless the water and in the septic system can prove the septic system.

A Netafim 1 1/2" 'Super Filter" 200 mesh/55 micron, shall be installed in a riser in the outlet line of the nump tank compartment.

Connect the 1 1/2" "Super Filter" and assemble in accordance with manufacturers specifications..

Contact NuWater dealer for complete specifications. All required specifications may not be contained in this design.

Owner Rebecca Cre

Rebecca Creek Camprounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

Drawing No.

100-8194



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400

Date:

9/1/21

Scale:

None

Sheet 2 of 5



The design pressure at the emitters is as specified by the manufacturer.

The total length of supply and return pipe is as shown on the System Layout

Diameter of supply and return lines is as shown on the System Layout.

NOTES TO OWNER OF SYSTEM: MAINTENANCE AND MANAGEMENT PRACTICES (if applicable):

An OSSF should not be treated as if it were a normal city sewer system.

The excessive us, of in-sink garbage grinders and grease distording should be avoided.

Do not use the toilet to ette butts, or other trash.

Septic tanks shall be cl to a point where it approaches the bottom lids from exiting the tank with the liquid.

Septic tanks should be cleaned every two-to-three years to prevent excessive sludge buildup.

Do not build driveways, storage buildings, or other structures over the treatment works or its disposal field.

Chemical additives or the so-called enzymes are not necessary for the operation of a septic tank. Some of these additives may be harmful to the tank's operation.

continued next page......

Owner

Rebecca Creek Camgrounds

Kaeleigh R. Crandall Drawn by:

Location

See sheet #1

100-8194 Drawing No.

Date:

Scale:

None

9/1/21

Sheet 3 of 5



MANGOLD Engineering Company 5596 CR 5710

Devine, TX 78016 Phone: (830) 931-0400

Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.

It is not advisable to allow water softener back flush to enter into any portion of the OSSF.

Except for Aerobic systems, the liquid from the OSSF is still heavily laden with bacteria. Contact with this liquid should be avoided, if it surfaces.

### WATER CONSERVATION MEASURES (if applicable):

Showers usually use less water than baths. Install a water saving shower head that uses less than 2 1/2 gallons per minute and saves both water and energy.

If you take a tub bath, re t fill page in the level to which you rom the level to which you customarily fill it

Leaky faucets and faulty possible.

Check toilets for waks that may not be apparent. Add a few drops of food coloring to the tank. Do not flush. If the color appears in the bowl within a few minutes, the toilet fill or ball-cock valve needs to be adjusted to prevent water from overflowing the stand pipe, or the flapper at the bottom of the toilet tank needs to be replaced.

Reduce the amount of water used for flushing the toilet by installing one of the following: a new toilet (1.6 gallon): a toilet tank dam; or filling and capping one-quart plastic bottles with water (usually one is all that will fit in smaller toilet tanks) and lowering them into the tank of the existing 3.5 gallon or larger toilet. Do not use bricks since they may crumble and cause damage to the fixture.

Sheet 4 of 5

continued next page......

	<del></del>			
Owner	Owner Rebecca Creek Camgrounds Drawn by:		Kaeleigh R. Crandall	
Location	See sheet #1	Drawing No	100	)-8194
	MANGOLD E		Date:	9/1/21
	MANGOLD Engineeri 5596 CR 5710 Devine, TX 78016	ng Compan	Scale: _	None

Phone: (830) 931-0400



Try to run the dishwasher with a full load, whenever possible.

Avoid running the water continuously for brushing teeth, washing hands, rinsing kitchen utensils, or for cleaning vegetables.

Use faucet aerators that restrict flow to no more than 2.2 gallons per minute to reduce water consumption.

Keep a container of drinking water in the refrigerator instead of running the faucet until the water turns cool.

Insulate all hot water pipes to evoid long delays of wested water while waiting for the heated water.

Ask your city, county, and how they can help



programs to conserve water,

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

Tavil by: Table girls oranga

Drawing No.

100-8194



**MANGOLD Engineering Company** 

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 9/1/21

Scale: None

Sheet 5 of 5



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10/28/21

Revision:

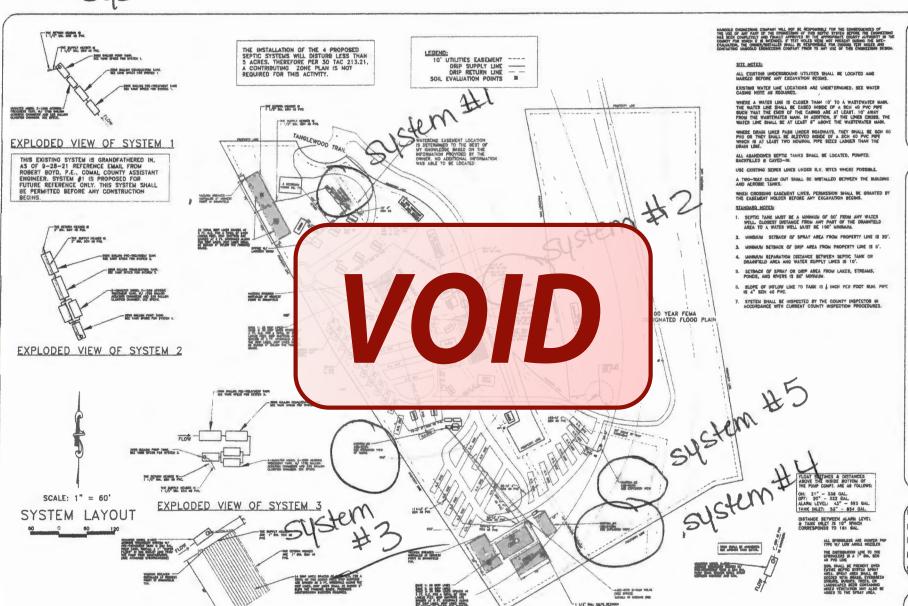
**Drawn:** K. Crandall

Sheet: 1 of 2



# System Label Locations

EXPLODED VIEW OF SYSTEM 4



REBECCA CREEK CAMPGROUNDS

931-0400 COMPANY (830) ENGINEERING Phone: CR 5710 e, Texas 78016 NO. F-5545 MANGOLD

5596 CR 5 Devine, Te: FIRM NO.

Dwg: 100-8196 Date: 10/28/21 Revision: A Drawn: K. Granda

Sheet: 1 of 2



EXPLODED VIEW OF SYSTEM 5

# **OSSF DESIGN**

for Rebecca Creek Campgrounds



MANGOLD ENGINEERING COMPANY 5596 CR 5710

**DEVINE, TEXAS 78016** 

PHONE: (830) 931-0400

PHONE: (210) 213-3912 FIRM NO. F-5549

# **OSSF DESIGN**

for Rebecca Creek Campgrounds



Reprinted for:

5/25/2021

737

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#### **USAGE SUMMARY**

Cypress Cove Water Supply Corporat

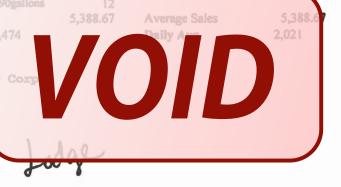
MONTH	TOTAL USAGE	# CUSTOMERS	MONTH AVG	DAILY AVG	% OF YEARLY USAGE
January	39920	1	39,920	1,288	5.41
February	100510	1	100,510	3,590	13.62
March	49430	1	49,430	1,595	6.70
April	50050	1	50,050	1,668	6.78
May	79700	1	79,700	2,571	10.80
June	81450	1	81,450	2,715	11.04
July	71140	1	71,140	2,295	9.64
August	85390	1	85,390	2,755	11.58
September	60960	1	60,960	2,032	8.26
October	46030	1	46,030	1,485	6.24
November	38280	1	38,280	1,276	5.19
December	34830	1	34 830	1.124	4.72

Total Usage Total Sales

Monthly Avg.

**Individual Accounts** 

Cypress Cove Water Supp



100.00

100.00

Reprinted for:

5/25/2021

12:42:17PM

## **USAGE SUMMARY**

Cypress Cove Water Supply Corporat

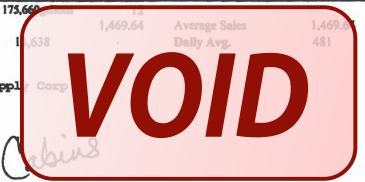
MONTH	TOTAL USAGE	# CUSTOMERS	MONTH AVG	DAILY AVG	% OF YEARLY USAGE
January	7630	1	7,630	246	4.34
February	12850	1	12,850	459	7.32
March	12170	1	12,170	393	6.93
April	30480	1	30,480	1,016	17.35
May	19260	1	19,260	621	10.96
June	21120	1	21,120	704	12.02
July	16830	1	16,830	543	9.58
August	16950	1	16,950	547	9.65
September	12440	1	12,440	415	7.08
October	. 9420	1	9,420	304	5.36
November	9600	1	9,600	320	5.47
December	6910	1	6,910	223	3.93

Total Usage Total Sales

Monthly Avg.

**Individual Accounts** 

Cypress Cove Water Suppl



# **OSSF DESIGN**

for Rebecca Creek Campgrounds



#### SUPPLEMENTAL CALCULATIONS FOR DESIGN 100-8196

THE FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE MAXIMUM DAILY FLOW FOR THE PARK SHALL BE USED. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD Q TOTAL-PARK-WATER-USAGE = 4606 GPD

DIRECT RATIO EQUATION:



QTCEQ COMPONENT = 1360 GPD SYSTEM #1

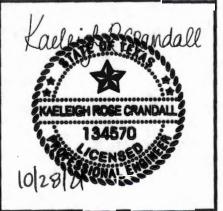
FOR SYSTEM 2 Q TOEO COMPONENT:

4 CABINS (AS AN APARTMENT) Q = 100 GPD / CABIN (4 CABINS) = 400 GPD6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM) Q = 60 GPD / BED (6 BEDS) = 360 GPDSHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

QTCEQ COMPONENT = 2104 GPD SYSTEM #2

Owner	Rebecca Creek Campgrounds	Drawn by: Ko	relaigh R. Crando
Location	Comal County, Texas	Drawing No.	100-8196A-SUF
$\triangle$			Date: 10/28/21
X	MANGOLD Engineerin 5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400	ig Company	Scale: None

FIRM NO. 5549 | Sheet 1 of 3



#### SUPPLEMENTAL CALCULATIONS FOR DESIGN 100-8196

#### FOR SYSTEM 3 Q TCEQ COMPONENT:

Q = 17 RV (40 GPD / RV) = 680 GPD

5 CABINS (AS AN APARTMENT)

Q = 100 GPD/ CABIN (5 CABINS) = 500 GPD

BATH HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

 $Q_{TCEQ\ COMPONENT} = 2524\ GPD\ SYSTEM\ #3$ 

FOR SYSTEM 4 Q TCEO COMPONENT:

10 RV SITES (40 GPD) = 400 GPD

6 RV SITES (40 GPD)

QTCEQ COMPONENT =



#### FLOW FOR BATH HOUSE & SHOWER HOUSE:

USAGE FROM RV Q= 28 GPD/ RV (33 TOTAL RV) = 924 GPD

USAGE FROM CAMPSITES

Q = 25 CAMPSITES (2 PEOPLE/ SITE) (28 GPD / SHOWER) = 1400 GPD

USAGE FROM MANCAMPS

Q = 13 BEDS (28 GPD) = 364 GPD

Q TOTAL = 2688 GPD FOR BOTH BATHHOUSE & SHOWER HOUSE

#### TOTAL FLOW FOR ENITRE PARK PER TCEQ:

QTCEO-TOTAL-COMPONENT=1360 GPD + 2104 GPD + 2524 GPD + 400 GPD + 240 GPD= 6628 GPD

Owner

Rebecca Creek

Campgrounds

Location Comal County, Texas Drawing No. 100-8196A-SUP

Drawn by: Kaeleigh R. Crandall



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400

FIRM NO. 5549

Date: 10/28/21

Scale: None

Sheet 2 of 3



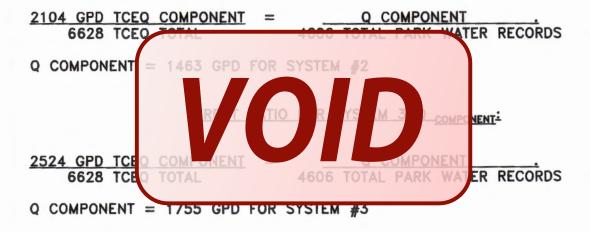
#### SUPPLEMENTAL CALCULATIONS FOR DESIGN 100-8196

#### DIRECT RATIO FOR SYSTEM 1 Q COMPONENT:

1360 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEO TOTAL

Q COMPONENT = 946 GPD FOR SYSTEM #1

#### DIRECT RATIO FOR SYSTEM 2 Q COMPONENT:



#### DIRECT RATIO FOR SYSTEM 4 Q COMPONENT

400 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q COMPONENT = 278 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT:

240 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q COMPONENT = 167 GPD FOR SYSTEM #5

Owner Rebecca Creek Campgrounds

Location Comal County, Texas Drawing No. 100-8196A-SUP

Drawn by: Kaeleigh R. Crandali

MANGOLD Engineering Company 5596 CR 5710

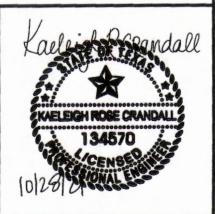
Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

Date: 10/28/21

Scale: None

Sheet 3 of 3



# **OSSF DESIGN**

for Rebecca Creek Campgrounds



# **Assembly Details**

OSSF

#### DIMENSIONS:

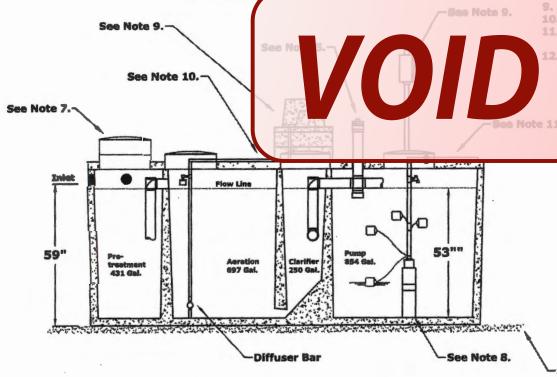
Outside Height: 67" Outside Width: 75" Outside Length: 164.5"

#### **MINIMUM EXCAVATION DIMENSIONS:**

Width: 87" Length: 177"

#### **GENERAL NOTES:**

- Plant structure material to be precast concrete and steel.
- Maximum burial depth is 30" from slab top to grade.
- Weight = 16,700 lbs.
- Treatment capacity is 800 GPD. Pump compartment set-up for a 420 GPD Flow Rate (5 beedroom, < 4,501 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 2.60 lbs. per day.
- Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
- Bio-Robix B-800 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer available for drip applications. Electrical Requirement to be 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle.
- 20" Ø acess riser w/ lid (Typical 4). Optional extension risers available.
  - 20 GPM 1/2 HP, high head effluent pump.
  - BLOW Air Compressor w/ concrete housing.
- 2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant). Sch. 40 PVC pipe to distribution system provided by
  - min, compacted sand or gravel pad by Contractor



See Note 12.

NuWater B-800 **Aerobic Treatment Plant (Assembled)** 

Model: B-800

March, 2010 By: A.S.

Dwg. #: ADV-8800-2



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 fax 830-995-4051

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.







SECTION: 2.30.015

FM1495 0500

Supersedes 1097

visit our web site: http://www.zoeller.com

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

#### **COMPARE THESE FEATURES**

- Non-Clogging Vortex Impeller Design.
- Float operated, submersible (NEMA 6) 2 pole switch.
- Durable cast iron construction. Cast iron switch cap, motor, and pump housing.
- Stainless steel screws, bolts, handle, guard, arm and seal assembly.
- Engineered, glass-filled, plastic insert.
- UL-listed 3-wire cord and plugfor automatic & nonautomatic.
- Corrosion resistant powder costed epox
- Thermal overload protection.
- Oil filled PSC motor hermetically sealed
- · Engineered plastic base.
- .4 H.P. 115V & 230V, 1Ph., 60 cycle, 1725 RPM.
- · Carbon and ceramic shaft seal.
- Oil Lubricated Bearings.
- · Passes 2-inch spherical solids.
- · 2" NPT Discharge.
- On point 12½\*
- Off point 4½"

# SIMPLEX AND DUPLEX SYSTEMS AVAILABLE





Manufacturers of . . .

"QUALITY PUMPS SINCE 1999"

# "WASTE-MATE"

(For Pump Prefix Identification see News & Views 0052)

SUBMERSIBLE

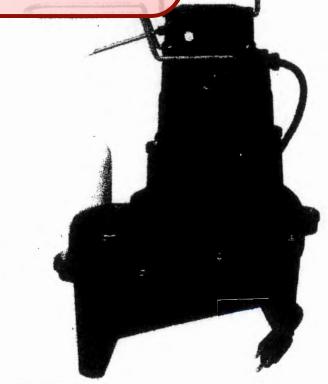
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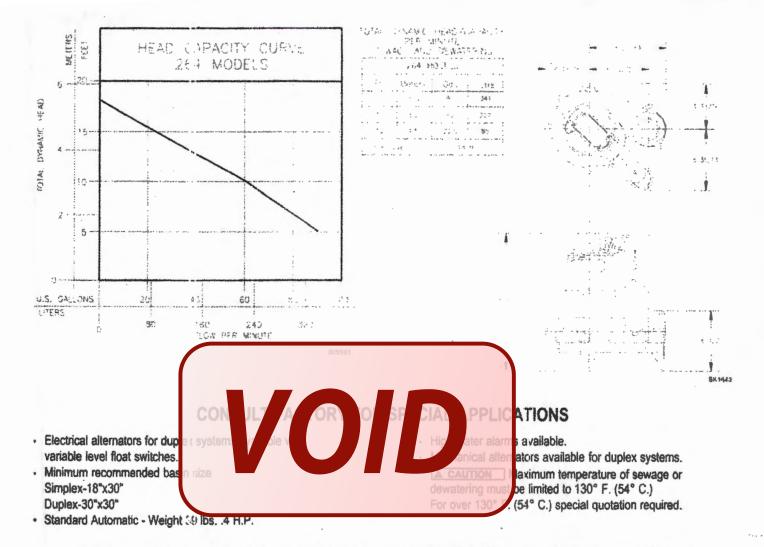




#### MODELS AVAILABLE

- Automatic
- Nonautomatic (for variable level systems)
- BE & BN264 available packaged with Piggyback variable level float switch.

"Ney be used in those states where codes do not restrict solide size in effuent systems.



	264 1	WODELS			N	
Model	Volts	Ph	Mode	Amps	Simplex	Duplex
M264	115	1	Auto	9.4	1 or 1 & 7	
N264	115	1	Non	9.4	2 or 2 & 6	3 or 4 & 5
D264	230	1	Auto	4.7	1 or 1 & 7	Language Contraction of the Cont
E264	230	1	Non	4.7	2 or 2 & 6	3 or 4 & 5

#### SELECTION GUIDE

- 1. Integral float operated 2-pole mechanical switch, no external control required.
- 2. Single piggyback variable level float switch, or double piggyback variable level float switch. Refer to FM0477.
- 3. Mechanical alternator M-Pak 10-0072 or 10-0075.
- See FM0712 for correct model of electrical alternator.
- Control switch 10-0225 used as a control activator specify duplex (3) or (4) float system.

For information on additional Zoeller products refer to a alog on Piggyback Amiable Level Ploat Seriches PM6477 Electrical Alternator, PM0486; Mechanical Alternator. - 3 (5495; Sumo-Sevespe Besins, PM6487, and Single Phase Simplex Pump Control, PM1596; Alerm System, PM07 I.

#### A CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All reactrical and safety under should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

#### RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.



http://www.zoeller.com

ZUELLER PUMP CO.

MAIL TO: P.O. BOX 16347 Louisville. NY 40256-0347 SHIP TO: 3649 Care Run Roed Louisville. NY 40211-190 (502) 778-2731-1 (800) 928-PUMP FAX (502) 778-3624

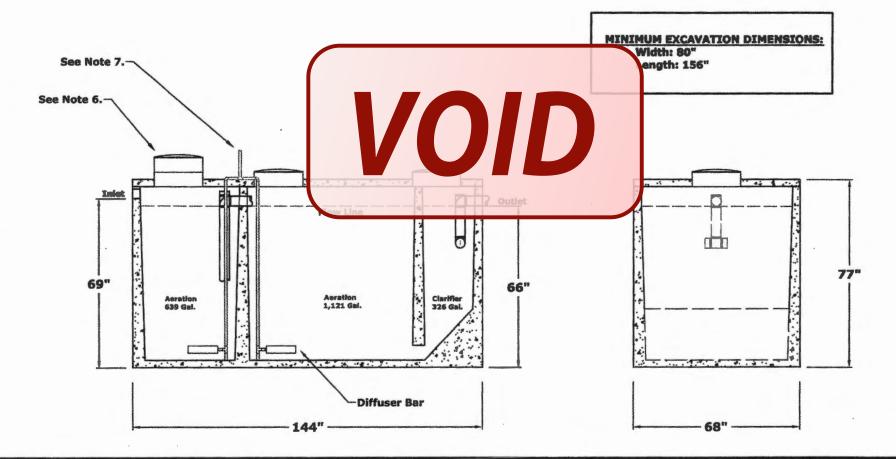
Manufacturers of . .

TRACTY PUMAPS SINCE 1939



#### **GENERAL NOTES:**

- 1. Plant structure material to be precast concrete and steel.
- Maximum burial depth is 30" from slab top to grade.
- 3. Weight = 16,600 lbs.
- 4. Treatment capacity is 1,500 GPD.
- 5. BOD Loading = 4.50 lbs. per day.
- 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
- 1" Sch. 40 PVC Air Line to NuWater B-1500 Air Compressor (Max. 50 Lft from Plant).
- Requires minimum 1,000 gallon trash tank unless otherwise specified by engineering.



NuWater B-1500 Duel Aeration Aerobic Treatment Plant

Model: B-1500

July, 2010 By: A.S.

Scales

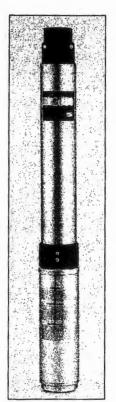
All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-81500-2

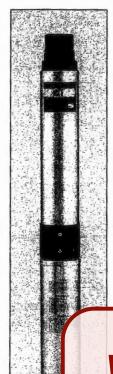


Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, 77 78013 830-995-3189 fax 830-995-4051





5-7 GPM TrimLine™ Max O.D. = 3-3/4"



10-30 GPN Max O.D.

#### Series J

Composite and Stainless
Precision-engineered, corrosionresistant Signature 2000° Series J
pumps in 5, 7, 10, 15, 20 and 30 GPM
models deliver efficient, dependable performance even in rough,
aggressive water. Heads to over
700 feet and capacities to 45 GPM.
Built to deliver long-term, troublefree service.

These pumps feature the patented Signa-Seal™ staging system. Floating stack design resists sand and reduces sand locking.

The 5 & 7 GPM models are the smaller diameter, TrimLine™ design; 10, 15, 20, and 30 GPM are standard models.



#### MATERIALS

Shell - stainless steel

**Discharge** – fiberglass-reinforced thermoplastic

Discharge bearing – Nylatron<sup>e</sup>
Intermediate bearing – (on larger

Intermediate bearing — (on larger units) polycarbonate, nitrile rubber, and stainless steel

Impeliers - Acetal

Diffusers - Polycarbonate

Suction caps - Polycarbonate with stainless steel insert

Thrust pads - proprietary spec.

Shaft and coupling - stainless steel

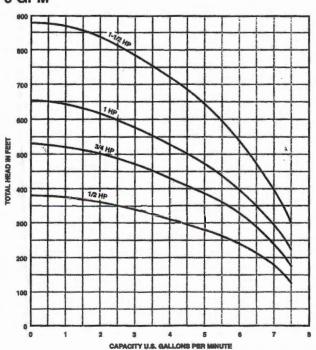
Intake -- fiberglass-reinforced thermoplastic

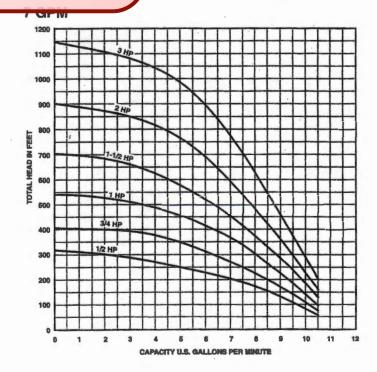
Intake screen – polypropylene

Check valve – durable internal heck valve

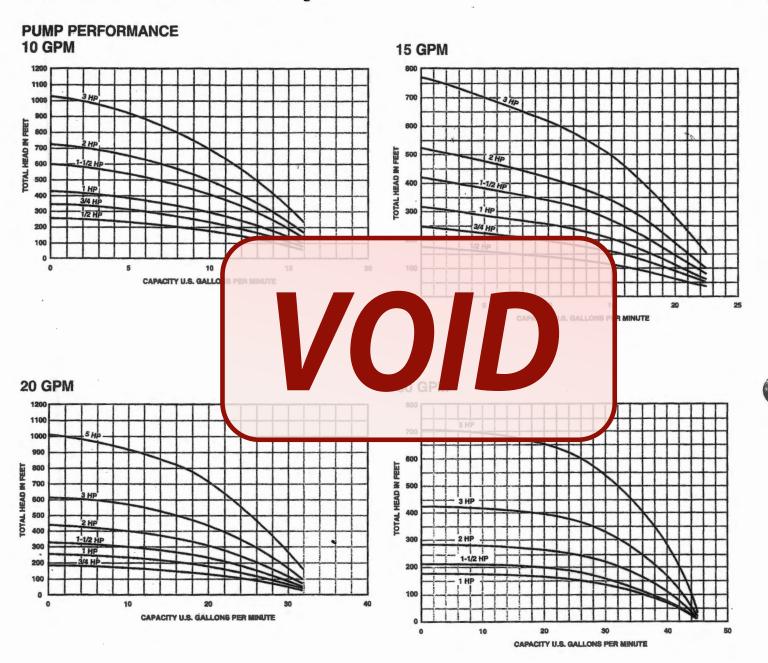
able guard – stainless steel gency Listings – UL 778, CSA d NSF

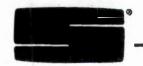
#### PUMP PERFORMANCE 5 GPM











#### **ORDERING INFORMATION**

							3 Wire			2 Wire	
Series	HP	Motor Voltage	Phase	Stages	Disch.	Catalog No.	Approx. Wt. Lbs.*	Length Inches*	Catalog No.	Approx. Wt. Lbs.*	Length Inches
	1/2	115	1	5	1-1/4"	15P4C01J	27	22-1/4	15SP4C01J	27	22-1/4
. \	.,,_	230	1	5	1-1/4"	15P4C02J	27	- 22-1/4	15SP4C02J	27	22-1/4
	3/4	230	1	7	1-1/4"	15P4D02J	٧ 31	25-3/4	15SP4D02J	31	25-3/4
	1	230	1.1	9	1-1/4"	15P4E02J	35	29-1/4	15SP4E02J	35	29-1/4
		230	1	12 '	1-1/4"	15P4F02J	41	33-3/4	15SP4F02J	43	35-1/4
	1-1/2	230	3	12	1-1/4"	15P4F03J	38	32-1/2			
15		460	3	12	1-1/4"	15P4F04J	38	32-1/2			
		230	11.	15	1-1/4"	15P4G02J	44	38-1/2			18
	2	230	3	15	1-1/4"	15P4G03J	42	37			
		460	. 3	15	1-1/4"	15P4G04J	. 42	37	1		
		230	1	22	1-1/4"	15P4H02.I	69	54-3/4			
	3	230	1	22	1-1/4"	15P4H03J	60	52			
		460	3		1-1/4"	15P4H04J					
	3/4	230	1		1-1/4".			23-3/4		30	23-3/4
	1	230	1	7	1-1/4"	20P4E02J	34	27-1/4	20SP4E02J	34	27-1/4
		230	(a) de l'				.3		SP4F02J	9	32
	1-1/2	230	3		/4°	20P4F03		-1/4			
		460	3		-1/4	20P4F04		)-1/4			11
		230	1		1-1/4	20P4G02		5-1/4			
20	2	230	3		1-1/4	20P4G7		3-3/4			
20.		460	3		1-1/4"						
		230	11	1/	1-1/4" -	ZUP4H02J	6/	49-1/4			
	3	230	3	17	1-1/4"	20P4H03J		46-1/2			
		460	el., Q	1.7	1-1/4". :	20P4H04J		46-1/2			
		230	1	20	4 47/40	00D/(100 I	90	67 1/0			
	5	230	. 3	28	1-1/4"	20P4J03J	74	61-1/2			
		460	3	28	1-1/4"	20P4J04J	74	61-1/2			
	1	230	:13/-	5 .	1-1/4"	.30P4E02J	35	26-1/2	30SP4E02J	35	26-1/2
		230	1	6	1-1/4"	30P4F02J	39	29	30SP4F02J	39	30-1/2
	1-1/2	230	3	6	1-1/4"	30P4F03J	36	28			
		460	3	6	1-1/4"	30P4F04J	36	28	_		
		230	1	8	1-1/4"	30P4G02J	42	33-1/4	_		
30	2	230	3	8	1-1/4"	30P4G03J	37	32-1/4	_		
30		460	3	8	1-1/4"	30P4G04J	37	32-1/4			
		230	1	12	1-1/4"	30P4H02J	66	47-1/2	-		
	3	230	3	12	1-1/4"	30P4H03J	57	44-3/4			
		460	3	12	1-1/4"	30P4H04J	57	44-3/4	_		
		230	1	20	1-1/4"	30P4J02J	90	65-1/4	_		
. [	5	230	3	20	1-1/4"	30P4J03J	73	59-1/4	_		
		460	3	20	1-1/4"	30P4J04J	73	59-1/4			-

<sup>\*</sup>Length and weight are approximate.

Standard version maximum outside diameter 3-7/8"

NOTE: Control box or magnetic starter must be ordered separately.



#### **ORDERING INFORMATION - PUMP ENDS**

Series	НР	Stages	Disch.	Catalog No.	Approx. Wt. Lbs.*	Length Inches*
	1/2	13	1-1/4"	L5P4CJL	12	18
	3/4	18	1-1/4"	L5P4DJL	15	22
5	1 1 V V V	22	1-1/4"	L5P4EJL	17	25-1/4
	1-1/2	30	1-1/4"	L5P4FJL	21	32
	1/2	10	1-1/4"	L7P4CJL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.
	3/4	13	1-1/4"	L7P4DJL	13	18-1/2
7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	1-1/4"	L7P4EJL	15	22
	1-1/2	22	1-1/4"	L7P4FJL	17	27-1/4
	2	28	1-1/4"	L7P4GJL	20	32-1/2
	3	36	1-1/4*	L7P4HJL	24	39-1/2
	1/2	6	1-1/4"	L10P4CJ	8-1/2	12
	3/4	0	1.1/4"	1100401	9-1/2	13-3/4
10	1	er 5 4 10 ·	1-1/4"	L10P4EJ	10-1/4	15-1/2
	1-1/2	14	1-1/4"	L10P4FJ	12	19
	2	17	1.1/4"	1 10P4GJ	13-1/2	21-1/2
	3	14		HJ HJ	16-1/2	27-1/2
	1/2			L15	9	12-1/4
	3/4			Lis James	10 .	14-1/2
15	1			All All	11	16-3/4
10	1-1/2		(-1/4"	13P4FJ	13	20-1/4
	2	15	1-1/4"	L15P4GJ	15	23-1/2
	3	22	1-1/4"	L15P4HJ	18	31-1/4
	3/4		1-1/4	LZUF 4DD	8-1/2	12-1/2
	1	7	1-1/4"	L20P4EJ	9-3/4	14-3/4
20	1-1/2	9	1-1/4"	L20P4FJ	10-3/4	16-3/4
	2	12	1-1/4"	L20P4GJ	12-1/2	20-1/4
	3	17	1-1/4"	L20P4HJ	15	25-3/4
	5	28	1-1/4"	L20P4JJ	21	38
	100 200 200 200 200	5	1-1/4"	L30P4EJ	10	14
	1-1/2	6	1-1/4"	L30P4FJ	11	15-1/4
30	2	8	1-1/4"	L30P4GJ	12	18-1/4
	3	12	1-1/4"	L30P4HJ	15	24
	5	20	1-1/4"	L30P4JJ	20	35-3/4

<sup>\*</sup>Length and weight are approximate.

TrimLine™.yersion maximum outside diameter 3-3/4".

Standard version maximum outside diameter 3-7/8".

NOTE: Motor, control box or magnetic starter must be ordered separately.



# MANUAL DISC **FILTERS**

#### **RELIABLE, EFFICIENT PLASTIC DISCS CREATE SUPERIOR FILTRATION**



#### THE FILTERING PROCESS

Grooved, compressed plastic disc rings produce a deep filtration process. As dirty water is pumped into the filter and pressure increases on the outside of the filter, the water pressure compresses the rings together tightly.

Grooves in the disc rings crisscross, forming a three dimensional network that traps particles. The number of crisscrossed intersection points on each groove varies, depending on filtration orade. The turbulence in the varying paths and arge number of intersections create an

nment where particles are eventually

esign filters the dirty water thoroughly, not n the outer surface of the cylindrical disc out through the entire depth of every ring's s. The result is a larger, more efficient g area (when compared to screen filters) ore debris being captured and cleaner exiting from the filter.

#### SHUBIUM MUDEL

- bitriy-eliculike
- a creare heading supply of the first we select alterament less frequent cleaning
- Rings are seally removed for fast clearing without the and to scrubbing. Schools do rings make identification of mesh

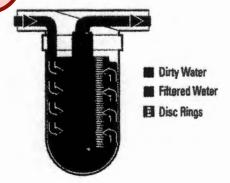
#### **APPLICATIONS**

- Primary irrigation filter for relatively clean or average water quality
- Protection of irrigation systems from clogging and/or abrasion

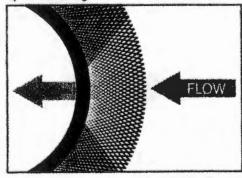


MESH/N	IICRON	
MESH	MICRON	DISC COLOR
040	400	Blue
080	200	Yellow
120	138	Red
140	115	Black
200	55	Green

Substitute \*\*\* in Model Number for proper mesh.



Top view of disc ring





3/4" FILTEF	}
FLOW RANGE	1 - 12 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	25 sq. in.
FILTERING VOLUME	5.8 cu. in.
LENGTH	5 22/32"
WIDTH	7 15/32"
WEIGHT	.66 bs.
DISTANCE BETWEEN ENDS	6"
INLET/OUTLET DIAMETER	3/4" Male
MODEL NUMBER	25A45-***

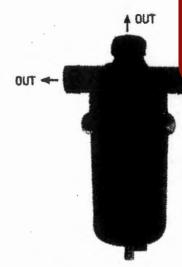


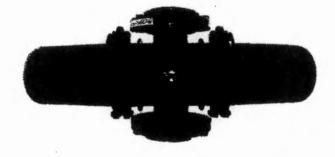
1" FILTER		
FLOW RANGE	5 - 26 GPM	
MAXIMUM PRESSURE	140 psi	
FILTERING SURFACE AREA	49 sq. in.	
FILTERING VOLUME	27 cu. in.	
LENGTH	911/32	
WIDTH	67/32"	
WEIGHT	22 lbs.	_





1" SUPER FIL	TER
FLOW RANGE	10 - 35 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	78 sq. in.
FILTERING VOLUME	38 cu. in.
LENGTH	13 13/32"
WIDTH	67/32"
WEIGHT	3.11 lbs.
DISTANCE ETWEEN ENDS	67/32"
INLET/OUT ET DIAMETER	1" Male
MODEL NU MBER	25A48-***





2" DUAL LITE I	ILTER
FLOW RANGE	40 - 110 GPM
MAXIMUM PRESSURE	115 psi
PLIERING SURFACE AREA	147 sq. in.
FILTERING VOLUME	75.7 cu. in.
LENGTH	16 5/16"
WIDTH	10 1/4"
WEIGHT	6.6 lbs.
DISTANCE BETWEEN ENDS	10 1/4"
INLET/OUTLET DIAMETER	2" Mate
MODEL NUMBER	25A2UL-***

FLOW RANGE	80 - 220 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	294,5 sq. in.
FILTERING VOLUME	174 cu. in.
LENGTH	28 3/4"
WIDTH	9 14/32"
Weight	17 lbs.
DISTANCE BETWEEN ENDS	12 19/32"
INLET/OUTLET DIAMETER	3" Flanged
MODEL NUMBER	25A3TL-***F

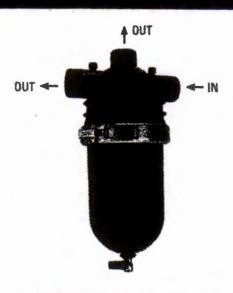


1 ½" FILTER		
10 - 35 GPM		
140 psi		
49 sq. in.		
27 cu. in.		
10 5/8"		
77/8"		
2.4 lbs.		
77/8"		
1 1/2" Male		
25A15-***		



1 1/2" SUPER F	LTER	
FLOW RANGE	10 - 52 GPM	•
MAXIMUM PRESSURE	140 psi .	
FILTERING SURFACE AREA	78 sq. in.	
FILTERING VOLUME	38 cu in.	-
LENGTH	14 1/2"	
Willer	7 7/0"	•

WEIGHT 3.3 lbs.
DISTANCE BETWEEN ENDS 77/8"



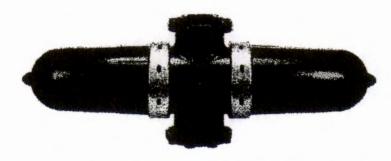
2'	<b>DUAL HP FI</b>	LTER
FLOW RANGE MAXIMUM PRESSURE		40 - 120 GPM
		174 psi
THERING	SURFACE AREA	147 sq. in.
FILTERING	VOLUME	75 cu. in.
LENGTH		14 3/4"
WIDTH		10 1/4"
WEIGHT		11 lbs.
DISTANCE	BETWEEN ENDS	10 1/4°
INLET/OUT	ET DIAMETER	2" Male
MODEL NI	MBER	25A30-***







GROOVED



3" ANGLE FILTER	
FLOW RANGE	80 - 220 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	287 sq. in.
FILTERING VOLUME	108 cu. in.
LENGTH	24 7/8"
WIDTH	12 3/32"
WEIGHT	31 lbs.
INLET/OUTLET DIAMETER	3"
MODEL NUMBER - FLANGED	25A53-***FNEW
MODEL NUMBER - GROOVED	25A53-***GNEW

4" TWIN FILTER		
FLOW RANGE	160 - 450 GPM	
MAXIMUM PRESSURE	140 psi	
FILTERING SURFACE AREA	574 sq. in.	
FILTERING VOLUME	216 cu. in.	
LENGTH	47"	
WIDTH	13"	
WEIGHT	52.8 lbs.	
DISTANCE BETWEEN ENDS	17 17/32"	
INLET/OUTLET DIAMETER	4" Flanged	
MODEL NUMBER	25A78-***F	

6" TWIN FILT	TER
FLOW RANGE	200 - 600 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	574 sq. in.
FILTERING VOLUME	216 cu. in.
LENGTH	47"
WIDTH	13"
WEIGHT	57.2 lbs.
DISTANCE BETWEEN ENDS	17 17/32"
INLET/OUTLET DIAMETER	6" Flanged
MODEL NUMBER	25A80-***F

#### **MANUAL DISC FILTERS**

OW RATE						HEAD	LOSS (psi)				
(GPM)	3/4"	1"	1" SUPER	1 1/2"	1 1/2" SUPER	2" DUAL HP	2" BUALLITE	3" TWIN LITE	3" ANGLE	4" TWRN	6" TWIN
5	0.60	0.25									
10	2.50	0.60									
13	3.40	134			1						
17	10	2.10									
22		3.24	1.10	1.10							
26			1.50	1.30	1.50						
31			210	1.70	2.10						
35			2.50	2.30	CAT THE PROPERTY AND						
44			0	1 712.	4.20	0.30	0.30				
66					as dis a plantage project of	Ubs	UBS				
28						1.03	1.03	0.64	6.44		
110						4 147	147 647	0.98	0.58		***************************************
132		7.					Section of the section of the		6.73		
154								1110	0.88	·	
178								1.80 3 (2.2)	1604,03		
198				-					12. 12. 12. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13		
226				-					35 1.61		
242				-		Principle of the Control of the Cont			7 - 2 CDRW3		
284				-							
286											
308						<del></del>				1.48	1 00
330										1.50	1.20
250										1.60	1.30
400										2.00	1.50
500										2400	2.00
600											3.00

CHART LEGEND

River, ditch, pond, teke or reservoir water 0.00

Well water containing sand only

0.00 Municipal supply

ORMATION
MODEL NUMBER
25A45-4+4
25A47-***
25A48-***
25A15-***
25A17-***
25A30-***
25A2DL-***
25A3TL-***F
25A53-***FNEW
25A53-***GNEW
25A78-***F
25A80-***F

Substitute \*\*\* for proper mesh size.

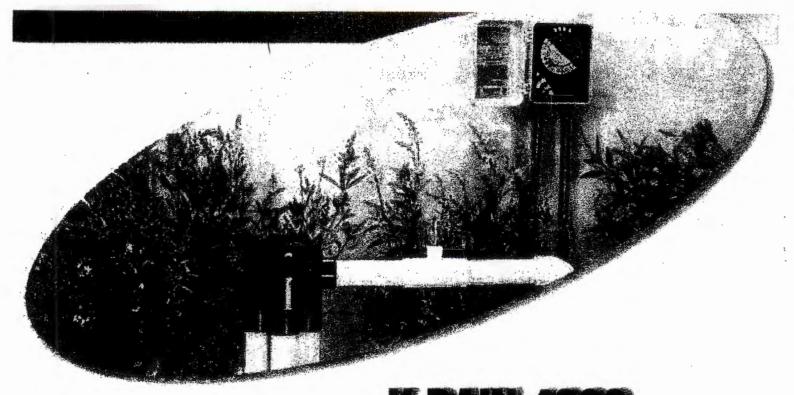
#### **MATERIALS**

- Disc flings: Polypropylene
- O-Rings: EPDM Rubber
- Clamp: Stainless Steel (except 2" Dual Lite and 3" Twin Lite which is Plastic)

The losses shown are for litters with 148 Mesh



**NETAFIM USA** 5470 E. HOME AVE. FRESNO, CA 93727 CS 888 638 2346 www.netafimusa.com



# VOID

FEATURES/BENI

after purchase.

ry support up to two years

- ABS Polymer Construction- High-strength, non-corrosive body for long product life.
- Available in 4 and 6 Outlet Models- Can quickly and easily change from two to six watering zones.
- Simplicity of Design- Valves are easily maintained and serviced for long product life.
- Operates at Low 10 GPM at Pressures of 25-75 PSI-Reliably automates multiple zoned residential and small commercial Irrigation or wastewater systems.



IRRIGATION SOLUTIONS WORLDWIDE"

#### K-RAIN-MODEL 4000: DISTRIBUTING VALVE

The 4000 distributing valve offers a reliable economical way to automate multiple zoned residential and small commercial irrigation systems. The simplicity of design and a minimum of moving parts ensures ease of maintenance and long service life.

These paterited valves allow for the number of watering zones to be changed quickly and easily. They are ideally suited for both city water and pump applications and may also be used for onsite wastewater or effluent water applications.

The 4000 valve is available in 4 or 6 outlet models. A quick change of the cam allows the valve to operate from 2 to 6 zones. As valve will operate with flows as low as 1 GPM and at pressures of 25 to 75 PSI.

The distributing valve shall carry a trade warranty against manufactur

#### HOW TO SPECIFY

Series — Zones Outlets

#### MODELS

#### 4 Outlet - 1 1/4" x 1 1/4" Models

4400	No Cam
4402	Cammed for 2 Zone Operation
4403	Cammed for 3

4404 Cammed for 4 Zone Operation

Other Options: Add to Part Number RCW Reclaimed Water Use

Zone Operation

#### 4 Outlet - 1" x 1" Models

4410	No Cam
4412	Cammed for 2

Commed for 3

Zona Operation

Outle 1/4 1" Hels

4600 Lan

603 Cammed for 3 Zone Operation

4604	Cammed for 4 Zone Operation
4605	Cammed for 5 Zone Operation
4606	Cammed for 6

Other Options: Add to Part Number
RCW Reclaimed Water Use

Zone Operation

#### 6 Outlet - 1" x 1" Models

4610	No Cam
4612	Cammed for 2 Zone Operation
4613	Cammed for 3 Zone Operation
4614	Cammed for 4 Zone Operation
4615	Cammed for 5 Zone Operation
4616	Cammed for 6 Zone Operation

#### SPECIFICATIONS

- Constructed of High Strength, Non-Corrosive ABS Polymer
- # Flow Range:

4 Outlet Valve: 10-40 GPM 6 Outlet Valve: 10-25 GPM

- Pressure Rating: 25 75 PSI
- Pressure Loss:

  4 Outlet Valve
  Flow (GPM) 10 20 30 40
  PSI Loss 2.0 3.0 4.5 6.4
  6 Outlet Valve

Flow (GPM) 10 20 30 PSI Loss 2.5 4.5 7.5

Inlet: Slip and Glue Connection 4400 Series: to 1 1/4" PVC Pipe 4410 Series: to 1" PVC Pipe 4600 Series: to 1 1/4" PVC Pipe 4610 Series: to 1" PVC Pipe

Outlets: Slip and Glue Connections
4400 Series: to 1 1/4" PVC Pipe
4410 Series: to 1" PVC Pipe
4600 Series: to 1" PVC Pipe
4610 Series: to 1" PVC Pipe
Dimensions: Height: 5-3/4"

Width: 5-3/4"

#### INSTALLATION TIPS

 We Recommend the Installation of an Atmospheric Vacuum Breaker Between the Pump and the Valve.

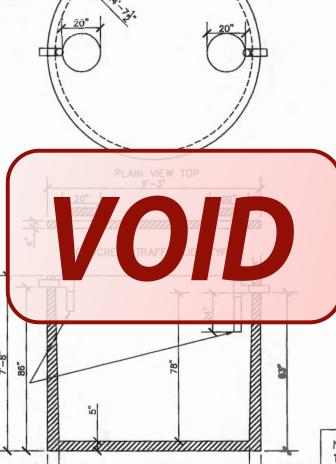


MINICATION SOLUTIONS WOOLDWIDE

K-Rain Manutecturing Corp.
1640 Australian Avenue
Riviera Beach, FL 33404 USA
PH: 1-561-844-1002 FAX: 1-561-842-9493
1-800-735-7246
EMAIL: krain@k-rain.com
WEB: http://www.k-rain.com

#### **CERTIFICATIONS:**

\* ANALYSIS AND DESIGN IN ACCORDANCE WITH ASTM STANDARD C 1227



#### SINGLE COMPARTMENT TANK

NOTES:

- CONCRETE: 4500 PSI
   REINFORCEMENT: #3
- REBAR 1' ON CENTER IN LID AND FLOOR W/ 1' TURN UP IN WALL
- 3"X5"X1/4" MESH WIRE IN WALLS
- 5" TRAFFIC LID (STD)
   TANK WEIGHT: 20,126.7#
- 5. CAPACITY: 2706 GAL
- GAL/IN = 34.7
   INLET & OUTLET
- MEASURED FROM BOTTOM OF TANK TO FLOWLINE.



4" SDR 35/SCH-40 TEE FITTING

CLIENT:	BLOCK CREEK CONCRETE		DRAWN BY:		
STREET A	DDRESS: 444 OLD #9 HWY A				
DESC:	3000 GAL. SINGLE COMP. SEPTIC	TANK			
PREPARE	GREG W. JOHNSON, P.E., F#2585	SCALE: 1'-0"	DATE: 12/1/2017	REVISED:	



#### **GENERAL NOTES:**

- 1. Plant structure material to be precast concrete and steel.
- Maximum burial depth is 30" from slab top to grade.
- 3. Weight = 16,600 lbs.
- 4. Treatment capacity is 1,000 GPD.
- 5. BOD Loading = 3.00 lbs. per day.
- 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
- 1" Sch. 40 PVC Air Line to Bio-Robic B-1000 Air Compressor (Max. 50 Lft from Plant).
- 4" min. compacted sand or gravel pad by Contractor

# See Note 5. See Note 6. See Note 8. See Note 8. Diffuser Bar

**MINIMUM EXCAVATION DIMENSIONS:** 

Width: 80" Length: 156"

79"

NuWater B-1000 Aerobic Treatment Plant (Assembled)

Model: B-1000

July, 2012 By: A.S.

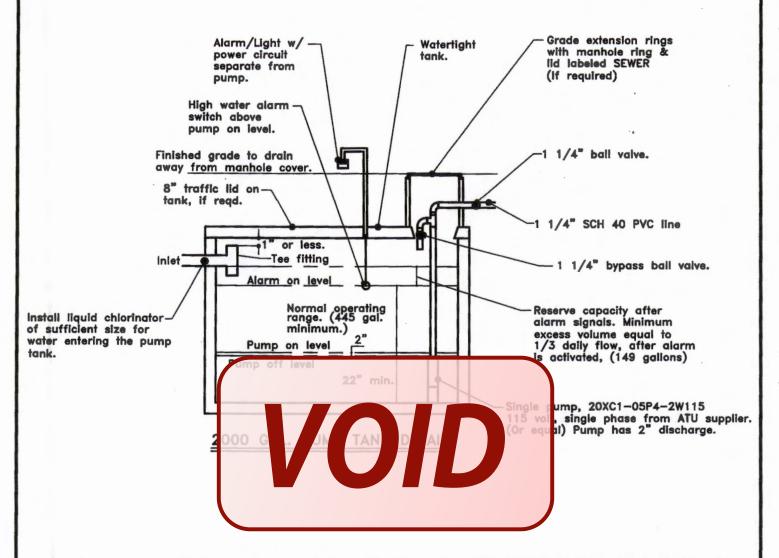
Scale:

All Dimensions subject to allowable specification olerances.

Dwg. #: ADV-B1000-2



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051



ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

Owner Rebecca Creek Camgrounds Drawn by: Ko SYSTEM # 4	aeleigh R. Crandall	Kaeleial Repandall
Location Comal County, Texas Drawing No.	100-8195-PT	A CONTRACTOR OF THE PARTY OF TH
A MANGOLD Francisco	Date: <u>9/1/21</u>	KAELEIGH ROSE CRANDALL
MANGOLD Engineering Company 5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400	Scale: None	9 1 2 CENS 2
/ \ FIRM NO. 5549	Sheet <u>1</u> of <u>1</u>	41.17

Model: E- 2000 P SHILL ADV DTOZ 'AINC 2000 Gallon Pump Tank See Note 8. 17/1 59 Sed Mobe 6.-Kenthen excension dimensions.

\*\*Therman excension dimensions. 2000 Gallon Pump Tank CENERAL NOTES:

**MENU** 

## C1 SERIES - 1/2 HP

#### **APPLICATIONS**

Gray water pumping, filtered effluent service water pumping, water reclamation projects such as pumping from rain catchment basins, aeration and other fountain or pond applications, agriculture and livestock water pumping

#### **FEATURES**

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components me ded from
- Optimized hydraulic designation
   power usage
- All metal components are made of his
- Available with a high quarty 115 V or 23
- Fluid flows of 10, 20, and 3 gpm, with a maximum shut-off pressure of 100 p.
- Heavy-duty 600 V 10 foot SJOSW jacketed



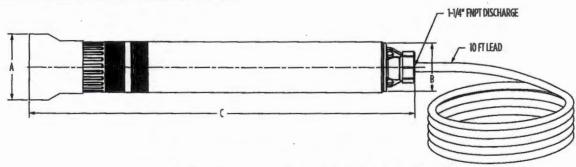
#### SERIES SPECIFICATIONS

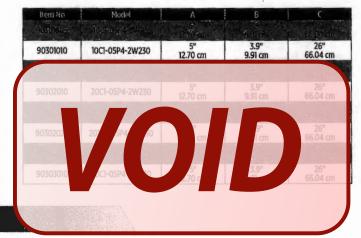
iten No	Hodel	HP Yolt	\'olts	s Hz	Stages	Amps	Watts	Wire	Min. Shot-Off Head		Min. Head a Rated Flow		Max	Min Head o Max GPM		Hay Amps
									PSI	FT	PSI	FT	GPH1	PSI	FT	
90,00005	L. (00)-051442 Wits	AC.		E-60			126			35					76	6 2
90301010	10C1-05P4-2W230	1/2	230	60	7	4.5	920	2	93	215	50	115	14	22	50	5
STATE OF	11/200 Note 2 - 2 Wife 1	1/2	1- 115	100	3 3	200	393	15 7	30	100		78	21-4	3-9	20	
90302010	20C1-05P4-2W230	1/2	230	60	5	4.5	920	2	56	130	34	78	28	9	20	5
E080/2015	1200101-01594-04910	1 12.	Am. 3021	1.504	1. Ta 1	1900	2 13/0 1	3	- 44	197	27-	3600	20.	1 9	4	The Wall
90302020	20XC1-05P4-2W230	1/2	230	60	6	4.5	920	2	68	156	37	85	28	9	21	5
enemale de	30.03-05P4 2W05 P3	164	175	199	1 4 %	14.1	- 100		3	115	- 131	14	35.	W. W.	201	lak .
90303010	30C1-05P4-2W230	1/2	230	60	4	4.5	920	2	39	89	19	45	35	13	29	50

# **EFFLUENT PUMPS**

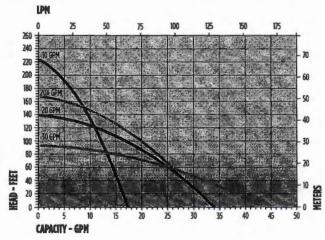
#### C1 SERIES - 1/2 HP

# ENGINEERING DATA



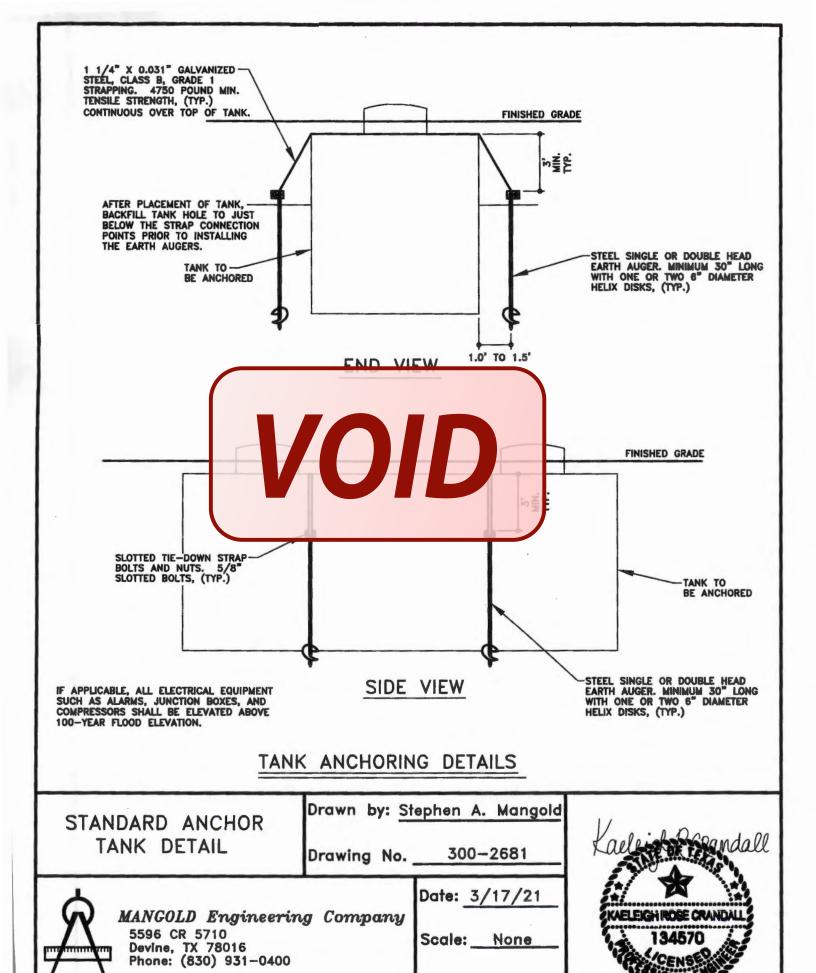


#### PERFORMANCE DATA



PGP Low Angle Nozzle (Gray) Performance Data

	Pressure	Radius	Flew	Preci	p in/hr	
Nozzie		ft.	<b>GPM</b>	-	· 🛦	
	30	22'	1.4	0.56	0.64	
4	40 <b>50</b>	24'	1.7	0.57	0.66	•
•	60	26° 28°	1.8 2.0	0. <b>51</b> 0.49	0.59	
	30	25'	1.6	. 0.49	0.57	
=	40	27	1.9	0.50	0.58	
5	50	28'	2.1	0.52	0.60	
	60	30'	2.3	0.49	0.57	
	30 40	27' 30'	2.1	0.55	0.64	
6	<del>5</del> 0	33'	2.5 2.8	0.53 0.49	0.62 0.57	
	60	351	3.0	0.45	0.01	
	30	291	28	0.64	0.74	
7	40	32"	3.1	0.58	0.67	
r	50	35'	.5	0.55	0.04	
	60	37'	8.8		0.50	
	30 40	31'	.9	0.65	0.79	
8	50	37'	4.4	0.62	Uzz	
	60	38'	4.7	0	72	
	30	33'	4,3	6.	Un	
9	40 50	37' 40'	5.0	VO	0.8	
	60 -	42'	6 1	0.67		
	40	38'	4.3 5.6 6.1 6.5 7.3 8.0 8.6	0.101	4.00	
10	50	40'	73	88.0		
10	60.	42'	80	-	1,01	
	70 Blank nozz	44'				
P	prinklers d	uring rep	airs, mai	na ves	a. etc	

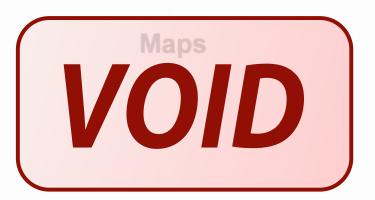


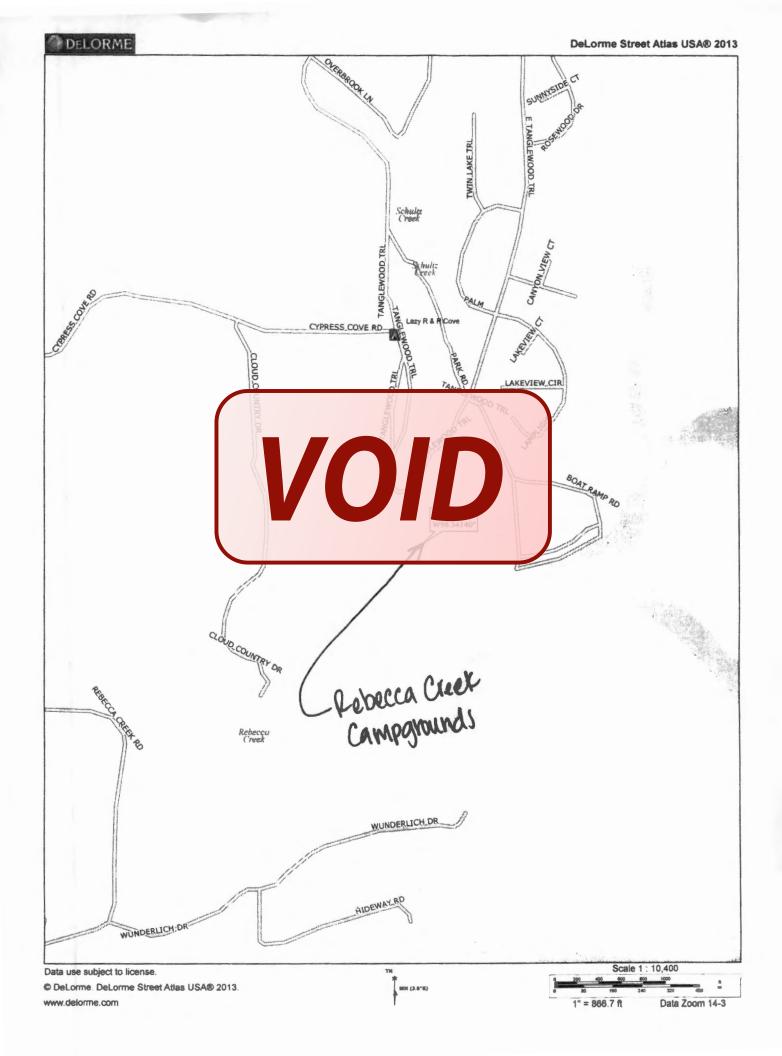
Sheet 1 of 1

FIRM NO. F-5549

# **OSSF DESIGN**

for Rebecca Creek Campgrounds

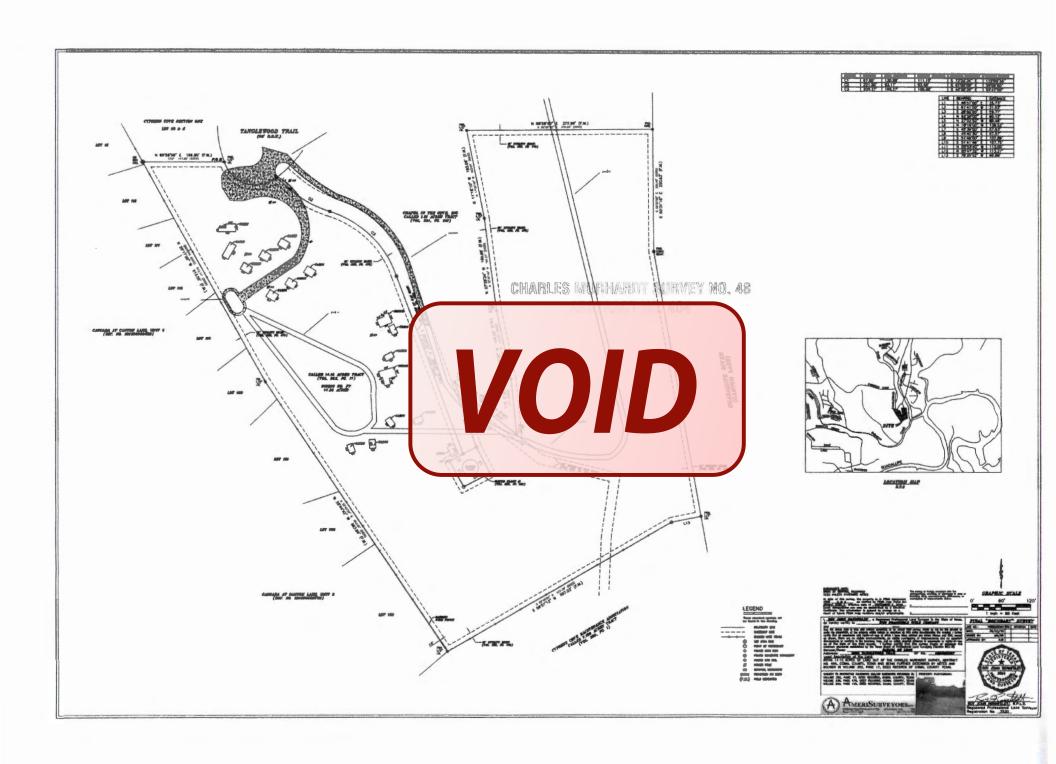




# **OSSF DESIGN**

for Rebecca Creek Campgrounds

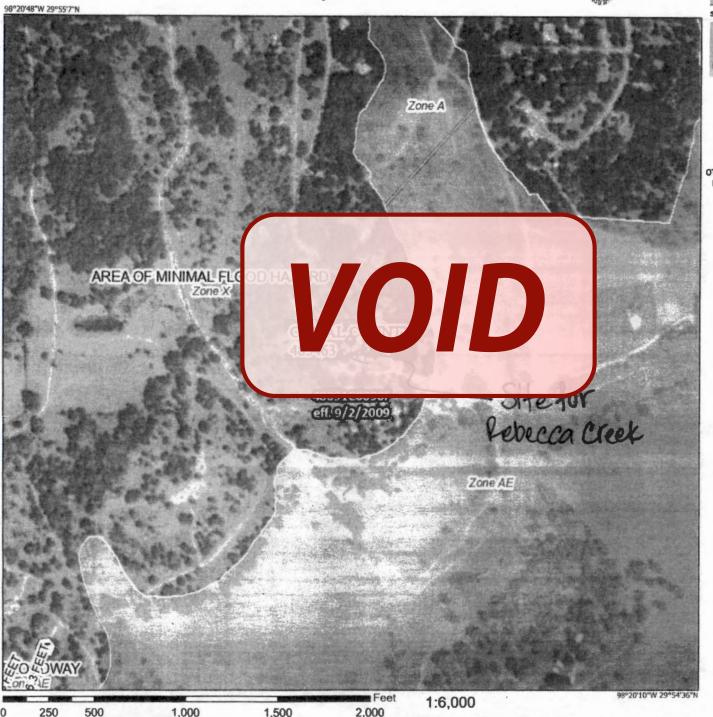




## National Flood Hazard Layer FIRMette



Basemap: USGS National Map: Ortholmagery: Data refreshed October, 2020



#### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

Without Base Flood Elevation (BFE) With BFE or Double Jone AE AO, AM WE AR

Regulatory Floodway

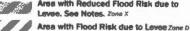


0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

**Future Conditions 1% Annual** Chance Flood Hazard Zone X

OTHER AREAS OF FLOOD HAZARD

MAP PANELS



Area with Reduced Flood Risk due to Levee, See Notes. Zone X

NO SCHOOL Area of Minimal Flood Hazard Zone X

**Effective LOMRs** 

OTHER AREAS Area of Undetermined Flood Hazard Zone D

- - - Channel, Culvert, or Storm Sewer STRUCTURES | 111111 Levee, Dike, or Floodwall

> Cross Sections with 1% Annual Chance **Water Surface Elevation Coestal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary

Coastal Transect Baseline **Profile Baseline** 

OTHER **FEATURES** Hydrographic Feature

**Digital Data Available** 

No Digital Data Available

Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was experted on 9/30/2021 at 4:13 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels. legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

## **REVISED**

9:35 am, Apr 07, 2022

Signature of Owner

### COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

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Date 11/4/2	Permit #
Owner Name    LeDecca Creek Campayounds	ent 🗌 Both Method: 💢 Mail 💢 Email
Subdivision Name N/A	Unit Lot Block
Acreage/Legal 14.23 ac. Charles Murhart Si	arvey abs. No. 404
Street Name/Address 3660 Tangle wood Trail	arvey abs. No. 404 city <u>Spring Branch</u> zip <u>79078</u>
Type of Development:	
Single Family Residential	
Type of Construction (House, Mobile, RV, Etc.)	
Number of Bedrooms	
Indicate Sq Ft of Living Area	
Non-Single Family Residentia	
(Planning materials must show adequate land are doubling	ned la nea atment units and disposal area)
Type of Facility 5 CADIAS   bed in each	
Offices, Factories, Churches, Schools Parks Ftc Indicate	
Restaurants, Lounges, Theaters - Indicate Number of Seats	
Hotel, Motel, Hospital, Nursing Home - Indicate Number of B	
Travel Trailer/RV Parks - Indicate Number of Spaces	LV Spaces
Miscellaneous	
	ture Only) N/A
Is any portion of the proposed OSSF located in the United Sta	tes Army Corps of Engineers (USACE) flowage easement?
Yes No (If yes, owner must provide approval from USACE for	or proposed OSSF improvements within the USACE flowage easement)
Source of Water X Public Private Well	
Are Water Saving Devices Being Utilized Within the Residence?	Yes No
	te land lights necessary to make the pormitted improvement
- Authorization is hereby given to the permitting authority and designate	ed agents to enter upon the above described property for the purpose of
site/soil evaluation and inspection of private sewage facilities I understand that a permit of authorization to construct will not be issued.	ed until the Floodplain Administrator has performed the reviews required
by the Comal County Flood Damage Prevention Order I affirmatively consent to the online posting/public release of my e-ma	

Date

Page 1 of 2

#### Olvera, Brandon

From: Olvera, Brandon

Sent: Friday, April 8, 2022 9:10 AM

To: 'Stephen Mangold'

**Cc:** Ritzen, Brenda; Robert Sutcliffe; Massie, Cassandra S; Boyd, Robert

**Subject:** RE: 113609, 113610, 113611, 113612

#### Robert Sutcliffe,

The permit files have been updated. Lines 1, 3-6 in previous email have been addressed.



Submit a copy for the Release of Easement Crossing

If you have any questions give me a call at 830-643-3759

#### Thank You,



#### **Brandon Olvera**

Environmental Health Inspector 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS0034792

O: 830-608-2090 I C: 830-832-9442

olverb@co.comal.tx.us

From: Stephen Mangold <stevemangold1@gmail.com>

Sent: Thursday, April 7, 2022 2:38 PM

To: Olvera, Brandon < Olverb@co.comal.tx.us>

Cc: Ritzen, Brenda <rabbjr@co.comal.tx.us>; Robert Sutcliffe <robert@enukiinvestments.com>; Massie,Cassandra S

<massic@co.comal.tx.us>; Boyd, Robert <boydro@co.comal.tx.us>

Subject: Re: 113609, 113610, 113611, 113612

#### This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

- 1. Certify that waterline crossing's equivalent protection complies with TAC 290
- Added note to the design see attached.
- 2. Provide the release of easement crossings
- The owners will take care of this.

How is it determined that half the people will go to the Shower House and the other half to the Bath House

- This was already taken care of.



System 3 application does not reflect the Bath House

Corrected see attachment.

V. All systems will need to have a daily flow meter to provide daily meter readings once a

- Updated note on drawing page to what we discussed on the phone.



V. Present how system 1 will provide daily water use records

- Agreed to using the water meter for those facilities.

#### Mangold Engineering Company

5596 County Road 5710 Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912 Kaeleigh Crandall, P.E. Cell: (830) 931-0400

On Wed, Apr 6, 2022 at 11:13 AM Olvera, Brandon < Olverb@co.comal.tx.us > wrote:

RE: 3660 Tanglewood Trail 14.23 AC charles Murhart Survey Abs No. 404

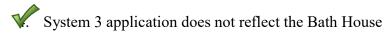
Property Owner & Agent,

We received planning materials for the referenced permit application on Revision 04-05-2022 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:

Certify that waterline crossing's equivalent prtoection complies with TAC 290

Provide the release of easment crossings

How is it determined that half the people will go to the Shower House and the other half to the Bath House



All systems will need to have a daily flow meter to provide daily meter readings once a month for 1 year

Present how system 1 will provide daily water use records

Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank you,



#### **Brandon Olvera**

Environmental Health Inspector 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS0034792

O: 830-608-2090 | C: 830-832-9442 olverb@co.comal.tx.us

#### Olvera, Brandon

From: Olvera, Brandon

Sent: Wednesday, April 6, 2022 11:13 AM

**To:** Stephen Mangold

Cc: Ritzen, Brenda; Robert Sutcliffe; Massie, Cassandra S; Boyd, Robert

**Subject:** 113609, 113610, 113611, 113612

RE: 3660 Tanglewood Trail 14.23 AC charles Murhart Survey Abs No. 404

Property Owner & Agent,

We received planning materials for the referenced permit application on Revision 04-05-2022 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:

Certify that waterline crossing's equivalent prtoection complies with TAC 290

Provide the release of easment crossings

How is it determined that half the people will go to the Shower House and the other half to the Bath House

System 3 application does not reflect the Bath House

All systems will need to have a daily flow meter to provide daily meter readings once a month for 1 year

Present how system 1 will provide daily water use records

7. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank you,



#### **Brandon Olvera**

Environmental Health Inspector 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS0034792

O: 830-608-2090 I C: 830-832-9442

olverb@co.comal.tx.us

#### Olvera, Brandon

From: Olvera, Brandon

Sent: Wednesday, January 11, 2023 9:49 AM

To: 'Stephen Mangold'; 'Rebecca Creek Campgrounds'; 'rebeccacreekgrounds@gmail.com'

**Subject:** 3660 Tanglewood Trail

RE: 3660 Tanglewood Trail

Property Owner & Agent,

We received planning materials for the referenced permit application on 11-18-2021 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:



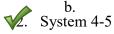
a. The drip lines that cross over the 100 year floodplain need to meet the requirements below.

#### §285.31. SELECTION CRITERIA FOR TREATMENT AND DISPOSAL SYSTEMS.

- (a) General Requirement. The type and size of an OSSF shall be determined on to of the soil and site information developed according to §285.30 of this title (relating to Evaluation).
- (b) Suitability. A standard subsurface absorption system may be used if all the s site criteria are determined to be suitable under §285.91(5) of this title (relating to Tabl one or more of the soil and site criteria categories are determined to be unsuitable, a stasubsurface absorption system cannot be used except as noted in §285.91(5) of this title. determined that a standard subsurface absorption system cannot be used, either a prop or a non-standard system may be used, provided all soil and site criteria for that system met as required in §285.91(13) of this title.
  - (c) Surface drainage criteria.
- (1) Topography. Uniform slopes under 30% are suitable for standard sul absorption systems. If the slope is less than 2%, steps shall be taken to ensure there is a surface drainage over any subsurface disposal field. The excavation for a standard subsabsorption system shall be parallel to the contour of the ground.
- (2) Flood hazard. Any potential OSSF site within a 100-year floodplain is to special planning requirements. The OSSF shall be located so that a flood will not dan OSSF during a flood event, resulting in contamination of the environment. Planning masshall indicate how tank flotation is eliminated. Additionally, if the site is within the regulation of the environment of the site is within the regulation of the site is within the regulation.
  - (A) the system shall not increase the height of the flood;
- (B) all components, with the exception of risers, chlorinators, cle sprinklers, and inspection ports, shall be completely buried without adding fill; and
- (C) non-buried components (e.g. alarms, junction boxes, and compressors) shall be elevated above the 100-year flood elevation.
- (d) Separation requirements. OSSFs shall be separated from features, in the are the OSSF is to be installed, that could be contaminated by the OSSF or could prevent th operation of the system. The separation requirements are in §285.91(10) of this title.

Adopted May 23, 2001

Effective June



- a. Per our inspectors notes, we will need a revision on the tank types that were used.
  - i. System 4- Si Tank/ ProFlo control panel
  - ii. System 5- Si Tank/ Areis Aerobic control panel

Per our conversation, since the tank on system 5 is not in the floodplain, it is to your discretion on the anchors for the tank.

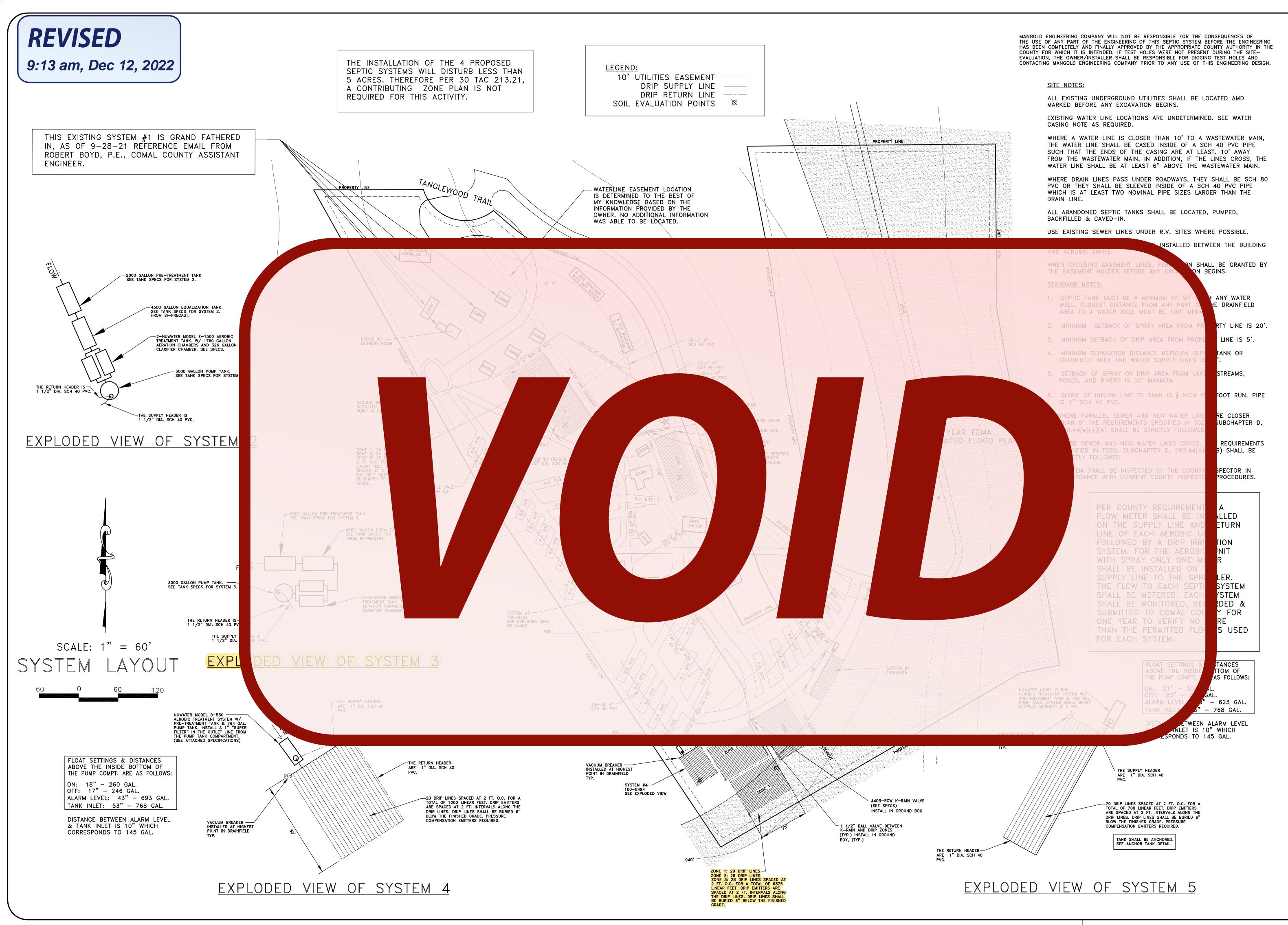
4. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us



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**Date:** 12/7/22

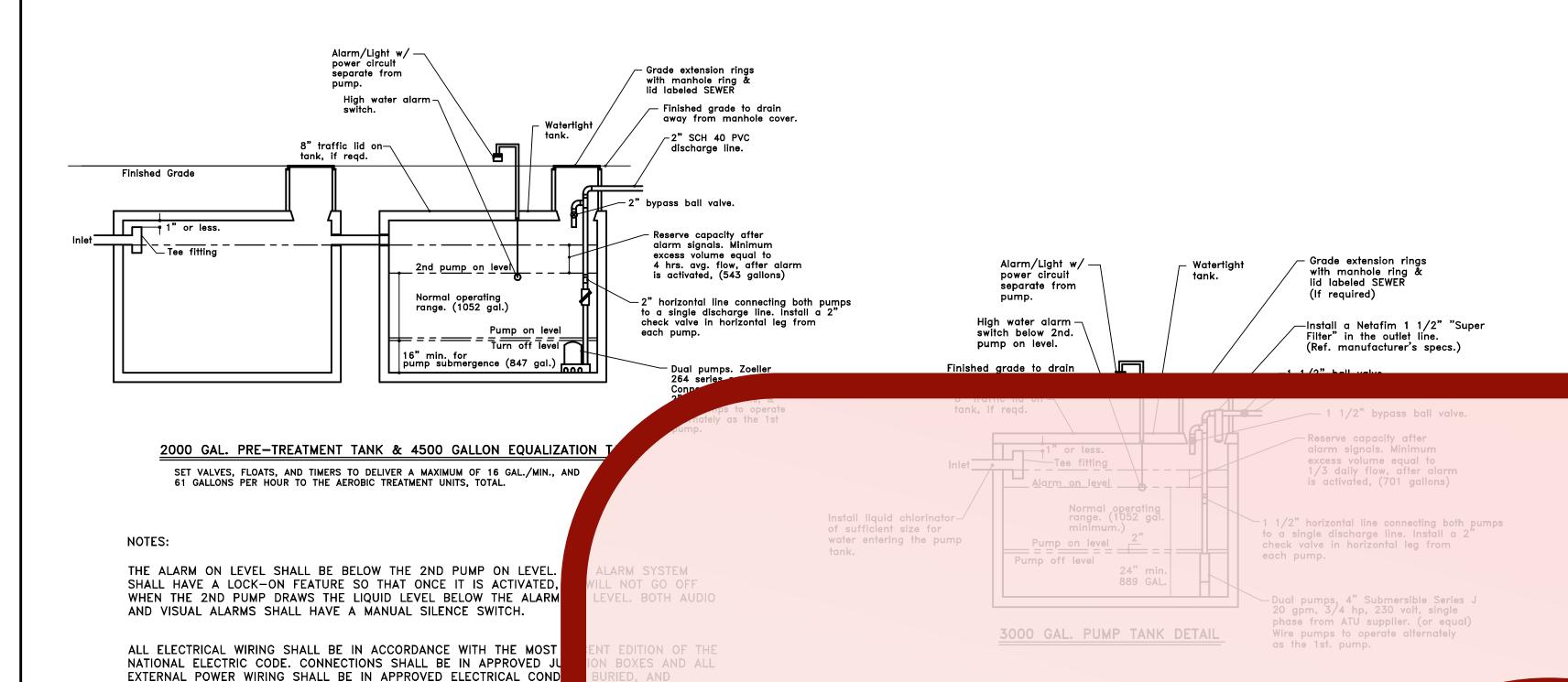
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**Drawn:** K. Crandall

**Sheet:** 1 of 2





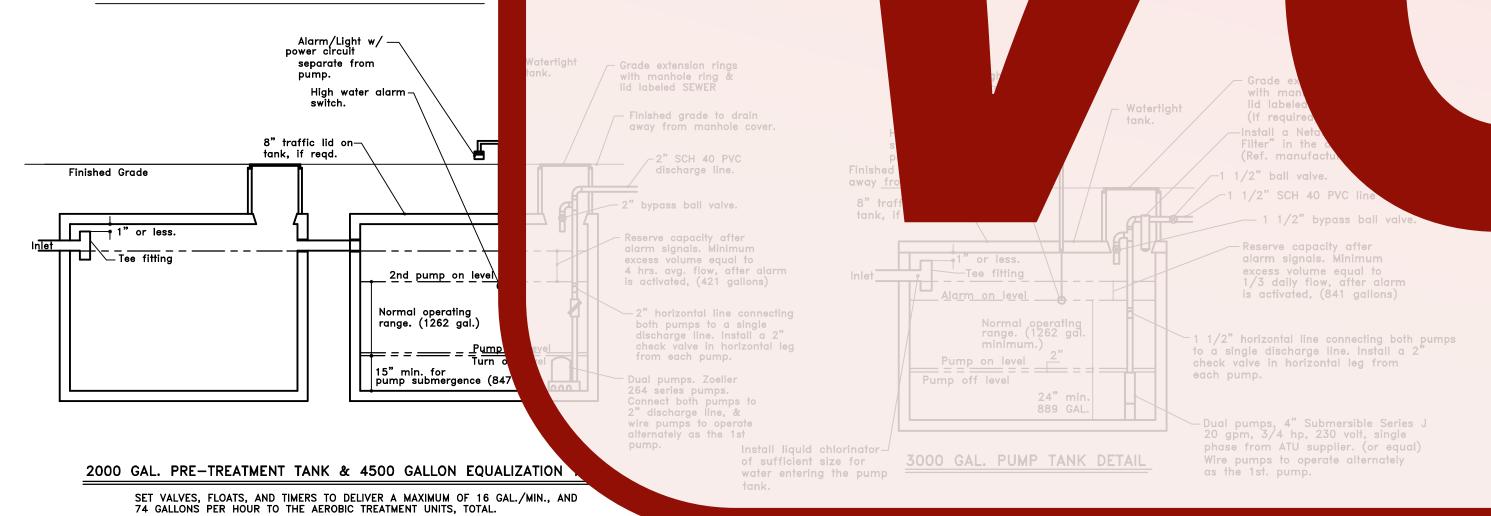


## SYSTEM #3 TANK SPECS:

TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. A COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIR DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR U

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQU

MAINTENANCE LOCKOUT PROVISIONS.



THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

#### CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

DIRECT RATIO EQUATION:

Q COMPONENT Q TCEQ-COMPONENT Q TCEQ-TOTAL-PARK Q TOTAL-PARK-WATER-RECORDS

FOR SYSTEM 1 Q TCEQ COMPONENT:

3 BEDROOM <2500 SQ. FT. Q = 240 GPD OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD LAUNDRY ROOM W/ 4 WASHING MACHINES Q= 4 WASHING MACHINES (200 GPD / MACHINE) = 800 GPD 3 CABINS (AS AN APARTMENT)

Q = 100 GPD/ CABIN (3 CABINS) = 300 GPD

 $Q_{TCEQ\ COMPONENT} = 1360\ GPD\ SYSTEM\ #1$ 

4 CABINS (AS AN APARTMENT) Q = 100 GPD/ CABIN (4 CABINS) = 400 GPD

6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM) Q = 60 GPD / BED (6 BEDS) = 360 GPD

SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

Q<sub>TCEQ</sub> COMPONENT</sub> = 2104 GPD SYSTEM #2

FOR SYSTEM 3 Q TCEQ COMPONENT

Q = 17 RV (40 GPD / RV) = 680 GPD

Q = 100 GPD/ CABIN (5 CABINS) = 500 GPD

BATH HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

EM #4

ITES (40 G

TEM #5

: 364 GPD

IMENDED TCEQ FLOW

D + 2104ZTCEQ-TOTAL-C

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

DIRECT RATIO FOR SYSTEM 2 Q COMPONENT

4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 1463 GPD FOR SYSTEM #2

DIRECT RATIO FOR SYSTEM 3 Q COMPONENT:

Q PERMITTED COMPONENT = 1755 GPD FOR SYSTEM #3

DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

360 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 251 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT:

280 GPD TCEQ COMPONENT = 6628 TCEQ TOTAL

Q COMPONENT 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 195 GPD FOR SYSTEM #5

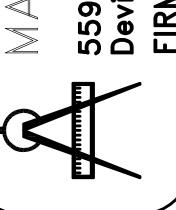
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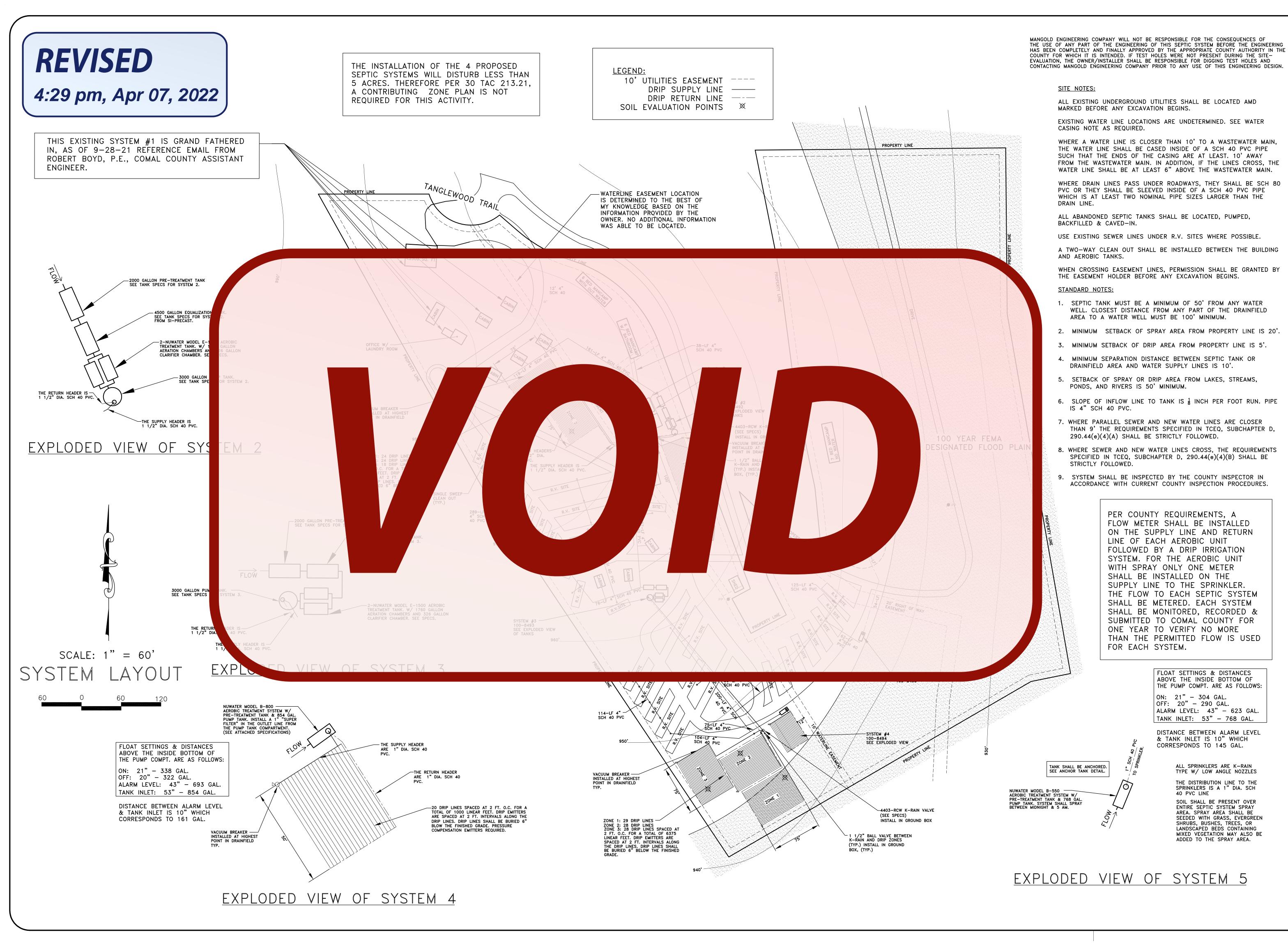


**Date:** 12/7/22 Revision: E

**Drawn:** K. Crandall

**Sheet:** 2 of 2





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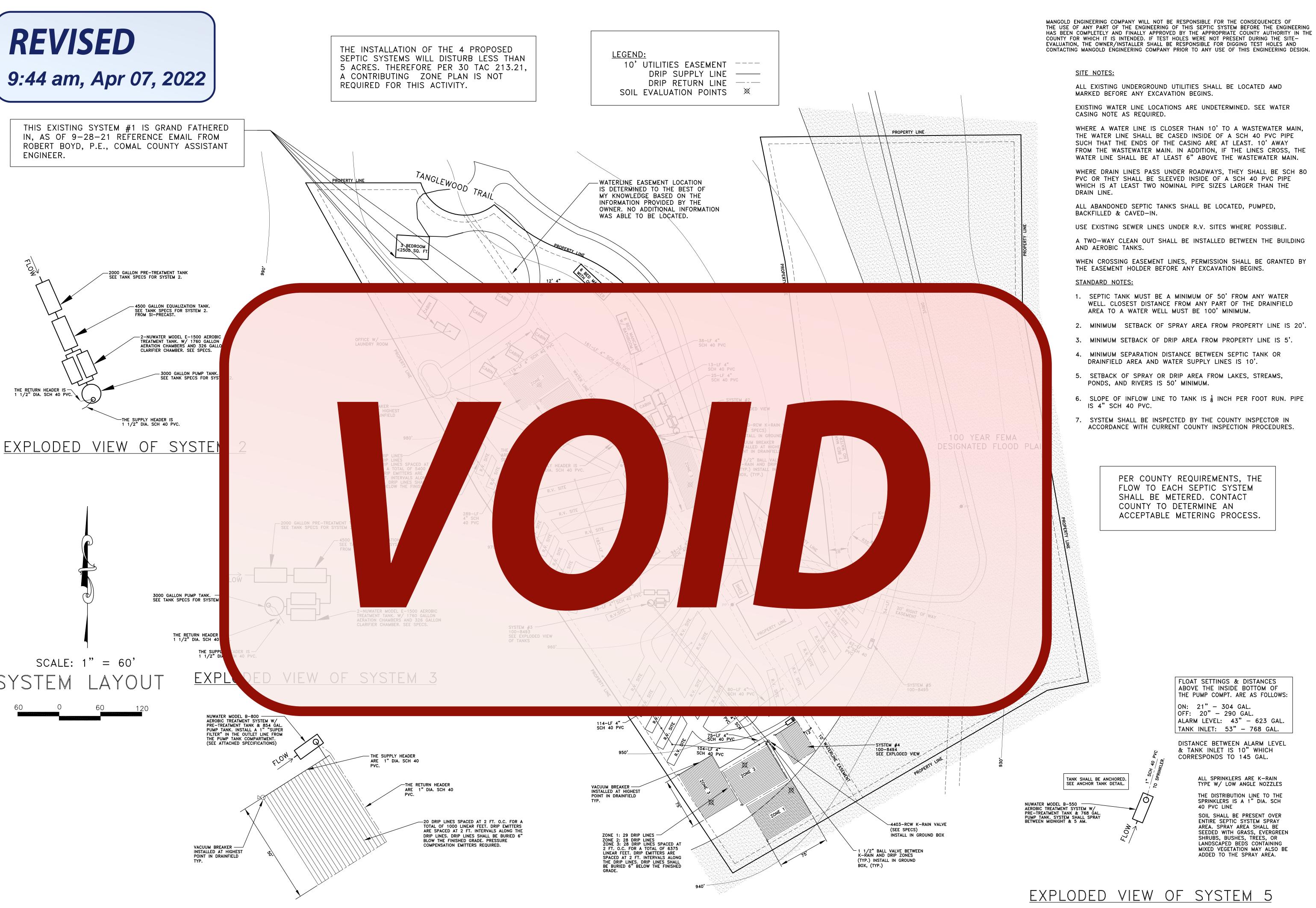
**Date:** 4/7/22

Revision:

**Drawn:** K. Crandall

Sheet: 1 of 2





EXPLODED VIEW OF SYSTEM 4

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**Date:** 4/4/2022

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Sheet: 1 of 2



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100-8497 **Date:** 4/4/22

**Revision:** c

**Drawn:** K. Crandall

Sheet: 2 of 2

KAELEIGH ROSE CRANDALL 134570

### **REVISED**

4:12 pm, Apr 07, 2022

Signature of Owner

## OMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

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Date 11/4/2/	Permit #
Owner Name  LeDecca Creek Campayounds  Mailing Address  City, State, Zip  Phone #  Email  LeDecca Creek Campayounds  Sonna Branch TX 18010  (930) 985-4035  Velocca Creek Gybunds@gmail.com	Agent Name  Agent Address  City, State, Zip  Phone #  Same as office  ent   Both   Bot
All correspondence should be sent to: X Owner Age	Oliver Control of the
Subdivision Name N/A	
Acreage/Legal 14.23 a.c. Charles Murhard Sustreet Name/Mares	20 16
Type of Development:  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.)  Number of Bedrooms Indicate Sq Ft of Livin and  No -Single Family Family  (Planning materials must so under a and are a doubling the recommendate of Facility  Offices, Factories, Churches and are a doubling the recommendate of Facility  Note:  Type of Facility  Offices, Factories, Churches and are a doubling the recommendate of Facility  Note:  Indicate Number of Bedrooms  Trave Trailer/RV Parks - Indicate Number of Spaces  Miscells reous  Offices any portion of the proposed OSSF located in the United State  Yes  No (If yes, owner must provide approval from USACE for	nber cupa  Beds  EV Spaces  ture Only) N/R  Ites Army Corps of Engineers (USACE) flowage easement?
Source of Water X Public Private Well	
Are Water Saving Devices Being Utilized Within the Residence?	Yes No
-it-lead avaluation and increation of private sewage tacilities	ed agents to enter upon the above described property for the purpose of upon the Floodplain Administrator has performed the reviews required

Date

Page 1 of 2

#### Olvera, Brandon

From: Olvera, Brandon

Sent: Tuesday, December 20, 2022 10:31 AM

**To:** 'Stephen Mangold'

**Cc:** Rebecca Creek Campgrounds

**Subject:** RE: FW: Rebecca Creek As-built for System 4 & 5

#### Good Morning,

File has been updated.

#### Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

From: Stephen Mangold <stevemangold1@gmail.com>

**Sent:** Friday, December 16, 2022 11:04 AM **To:** Olvera,Brandon < Olverb@co.comal.tx.us>

Cc: Rebecca Creek Campgrounds <rebeccacreekcampgrounds@gmail.com>

Subject: Re: FW: Rebecca Creek As-built for System 4 & 5

### This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

#### Brandon,

Attached is the signed application from me. This job we are permitting the water records but sizing the systems to accommodate the TCEQ flow. The flow on the application is correct.

System 2&3 aren't installed yet. We are hoping to complete 4 & 5 and move on to the other 2 systems.

Thank you, Kaeleigh

#### Mangold Engineering Company

5596 County Road 5710 Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912 Kaeleigh Crandall, P.E. Cell: (830) 931-0400

On Fri, Dec 16, 2022 at 10:32 AM Olvera, Brandon < Olverb@co.comal.tx.us > wrote:

#### Good Morning,



a. Application page 2

- i. GPD for 7 RV's would be 280
- ii. Needs signature of the designer



- a. Applications, need to be signed by the owner
- 3. Revise accordingly and resubmit

#### Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

**From:** Stephen Mangold < <a href="mailto:stevemangold1@gmail.com">stevemangold1@gmail.com</a>>

Sent: Wednesday, December 14, 2022 3:06 PM

To: Rebecca Creek Campgrounds < rebeccacreekcampgrounds@gmail.com >

**Cc:** Olvera,Brandon < <u>Olverb@co.comal.tx.us</u>>

Subject: Re: FW: Rebecca Creek As-built for System 4 & 5

#### This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Brandon,

I attached my documents with Rebecca Creeks Signed applications. I also updated the overall drawing. Please let me know if you need anything else.

Thank you,

Kaeleigh

#### Mangold Engineering Company

5596 County Road 5710

Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912

Kaeleigh Crandall, P.E. Cell: (830) 931-0400

On Wed, Dec 14, 2022 at 12:42 PM Rebecca Creek Campgrounds < <a href="mailto:rebeccacreekcampgrounds@gmail.com">rebeccacreekcampgrounds@gmail.com</a>> wrote:

attached signed apps

On Mon, Dec 12, 2022 at 9:22 AM Olvera, Brandon < Olverb@co.comal.tx.us > wrote:

RE: 3660 Tanglewood Trail

Property Owner & Agent,

We received planning materials for the referenced permit application on 04-07-2022 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:



- a. Revise application to show new number of RV sites
- b. Revise application to show new absorption area and GPD
- c. Application Needs to have the owners signature and date
- d. On the design, the exploded view shows only 19 drip lines, the notes mention 20



- a. Revise application to show new number of RV sites
- b. Revise application to show new absorption area and GPD
- c. Revise system description to show a the drip irrigation
- d. Application Needs to have the owners signature and date
- e. On the design, exploded view shows 70 lines, however there are 10 at 70ft.



- a. All applications need to have the owners signature and Date.
- 4. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

From: Stephen Mangold < <a href="mailto:stevemangold1@gmail.com">stevemangold1@gmail.com</a>>

Sent: Wednesday, December 7, 2022 2:41 PM

To: Ritzen, Brenda < <a href="mailto:rebeccacreekcampgrounds@gmail.com">rebeccacreekcampgrounds@gmail.com</a>>

Subject: Rebecca Creek As-built for System 4 & 5

## This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Hi Brenda,

Michelle with Rebecca Creek contacted me to draw as builts for system 4 & 5. The installer should be calling for an inspection.

Please call me if you have any questions.

Thank you,

Kaeleigh

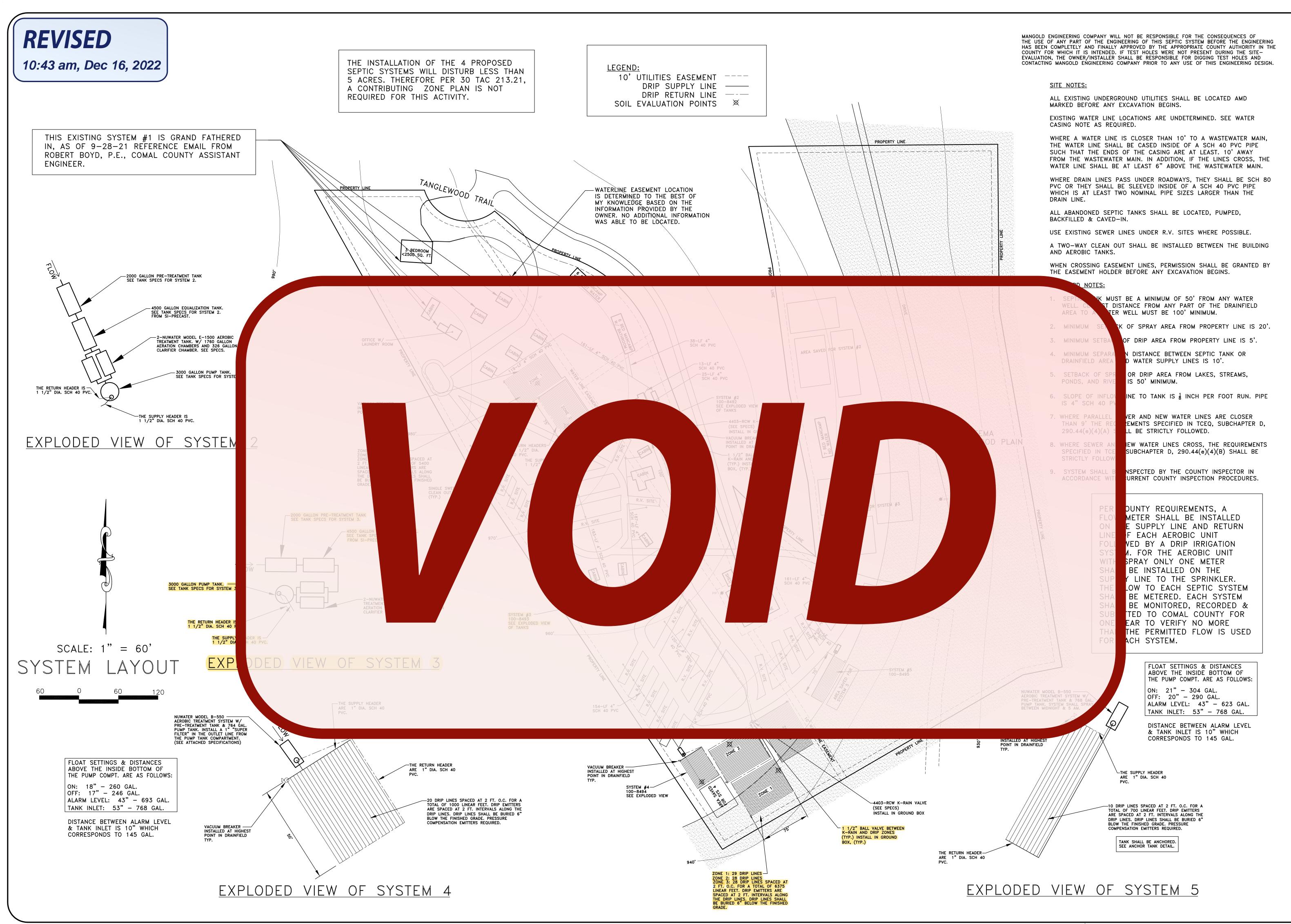
#### **Mangold Engineering Company**

5596 County Road 5710

Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912

Kaeleigh Crandall, P.E. Cell: (830) 931-0400



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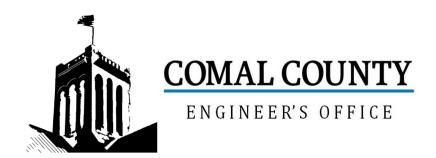
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12/14/22 Revision:

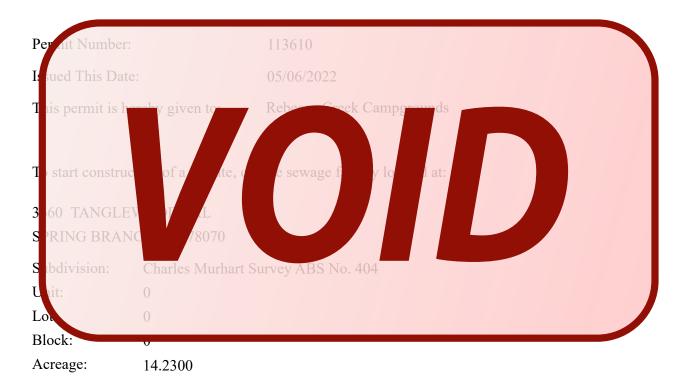
**Drawn:** K. Crandall

**Sheet:** 1 of 2





## Permit of Authorization to Construct an On-Site Sewage Facility Permit Valid For One Year From Date Issued



#### APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

**Drip Irrigation** 

This permit gives permission for the construction of the above referenced on-site facility to commence. Installation must be completed by an installer holding a valid registration card from the Texas Commission on Environmental Quality (TCEQ). Installation and inspection must comply with current TCEQ and Comal County requirements.

Call (830) 608-2090 to schedule inspections.

\*\*\*\*As a condition of this permit submittal a meter must be installed on the outflow line of the pump tank. The readings from this meter must be recorded on a daily basis and submitted to the Comal County Environmental Health Department once a month for 12 months from the date the License to Operate is issued. If at any time the daily meter reading exceeds the permitted flow rate this permit will be void and a new permit must be obtained.\*\*\*\*

## **RECEIVED**

10:08 am, Apr 07, 2022 APPLICATION FOR PERMIT FOR AUTHORIZATION

By Brandon M. Olvera at 10:26 am, Dec 20, 2022

ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Date 11/4/X Permit #
Owner Name Lebecca Creek Camparounds Agent Name Michelle Wertheim
Mailing Address 3660 Tavale wood Tail Agent Address 3660 Tangle Wood Tail
City, State, Zip SOMMA Branch TX 78070 City, State, Zip SOMMA Branch, TX 78070
Phone # (930) 985-4035 Phone # (830) 446-0048
Email Yebecca Over grounds@gmail.com Email Same as office
All correspondence should be sent to: X Owner Agent Both Method: X Mail X Email
Subdivision Name N/A Unit Lot Block
Acreage/Legal 14.23 ac. Charles Murhart Survey abs No. 404
Street Name/Address 3660 Tangle wood Tail City Spring Branch Zip 78078
Type of Developer
Single Family Residential
Type of Construction (House, Mobile, RV, Etc.)
Number of Bedrooms
indicate Sq Ft of Living
Non-lingle Family Reductial
(Planning materials must ship sequety area shipling the recommand of for sent units at seven social area)
Type of Facility
Offices Factories, Churc S. S., Park - Indicate / Jane C. Jupan Restau ants, Lounges, The Indicate No. of Seal
Hotel, I otel, Hospital, Number and - Indicate All
Travel railer/RV Parks - Indicate Number of Spaces U IV SHUS
Miscellaneous
Estimated Construction: \$ (Structure Only) N/A
Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?
Yes No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)
Source of Water Public Private Well
Are Water Saving Devices Being Utilized Within the Residence? X Yes No
By signing this application, I certify that:  The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.  Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose site/soil evaluation and inspection of private sewage facilities  I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews require by the Comal County Flood Damage Prevention Order.  I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.
Signature of Owner Page 1 of
Date Page 1 of

## 9:41 am, Apr 07, 2022 E EVALUATION AND CALCULATIONS

Site Evaluation:

**Soil Texture:** 

Clay loam

Soil Structure:

Blockv

Soil Depth:

18" minimum

Restrictive Horizon:

At 18" min. from surface None encountered

Groundwater: Topography:

More than 2% slope on drainfield area

Site was determined to have a Class III soil. Due to the park layout

rock horizon an aerobic treatment unit followed by drip irrigation shall be

#### C

system shall System # rence design be over de bw ( roughout. 100-8497 f lations

Q = 2524 gpd

Two NuWater Model B-1500 aerobic treatment unit, or equal, shall be installed. A 200 gallon pre-treatment tank and 4500 gallon equalization tank shall be installed preceding

pump tank. The tank system shall be followed by a drip irrigation system. (Reference the System Layout) Chlorinator is required for water entering pump tank compartment. Liquid type chlorination shall be used.

Ra = 0.20 gal. / sq. ft. / day,(For a Class III soil)

A = Q / Ra, A = (2524 gal. / day) / (0.20 gal. / sq. ft. / day) = 12,620 sq. ft.

**Owner** 

Rebecca Creek Camgrounds

Kaeleigh R. Crandall Drawn by:

Location Comal County, Texas

Drawing No. 100-8493

MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

3/10/22 Date:

None Scale:

Sheet 1 **of** 5



## SITE EVALUATION AND CALCULATIONS

#### Calculations:

Emitter line shall be used which has emitters spaced at 2 foot intervals, and adjacent emitter lines shall also be spaced at 2 feet on center.

Required line length = A / 2 = (12,620 sq. ft. / 2 sq. ft. per foot) = 6310 feet 6375' of drip line shall be installed as shown on the System Layout

A 1 1/2" SCH 40 PVC supply line shall be used from the ATU systems pump tank to the drainfield. A 1 1/2" SCH 40 PVC return line from the drainfield back to the pump tank shall be provided. The system shall be set up in accordance with NuWater spectations. (Cc many complete sciffic set to spectations) and sails)

NOTE: R II LLEF pplicable):

Do not nater so ar back-wa separate yster

The TC ws washing to be harg gray water system s the water con an wast unnit the septic system can prolong the life of the system.

A Netafim 1 1/2" "Super Filter" 200 mesh/55 micron, shall be installed in a riser in the outlet line of the pump tank compartment.

Connect the 1-1/2 Super Filter and assemble in accordance with management specifications..

Contact NuWater dealer for complete specifications. All required specifications may not be contained in this design.

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

**Drawing No.** 100-8493



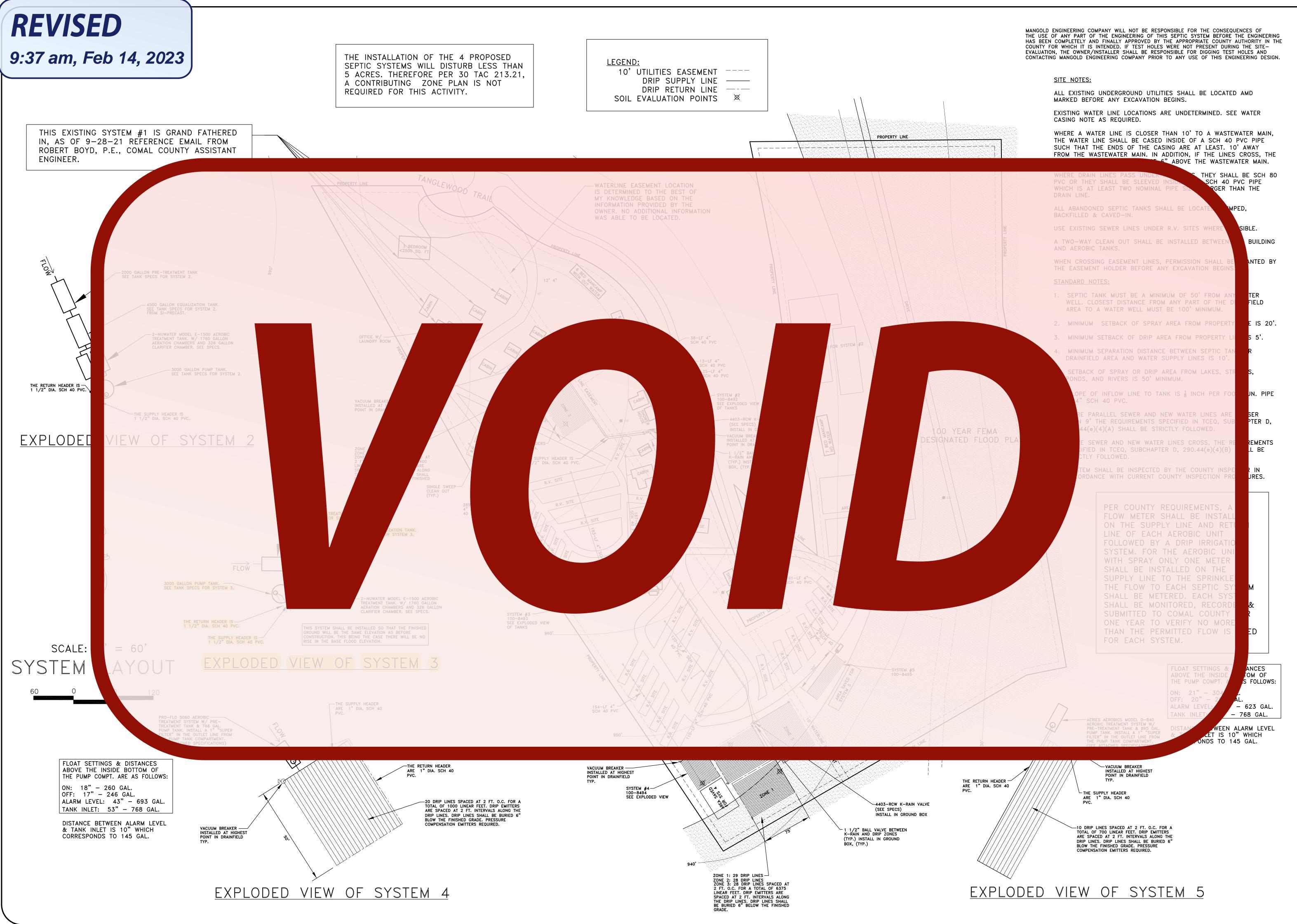
MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 3/10/22

Scale: None

Sheet 2 of 5





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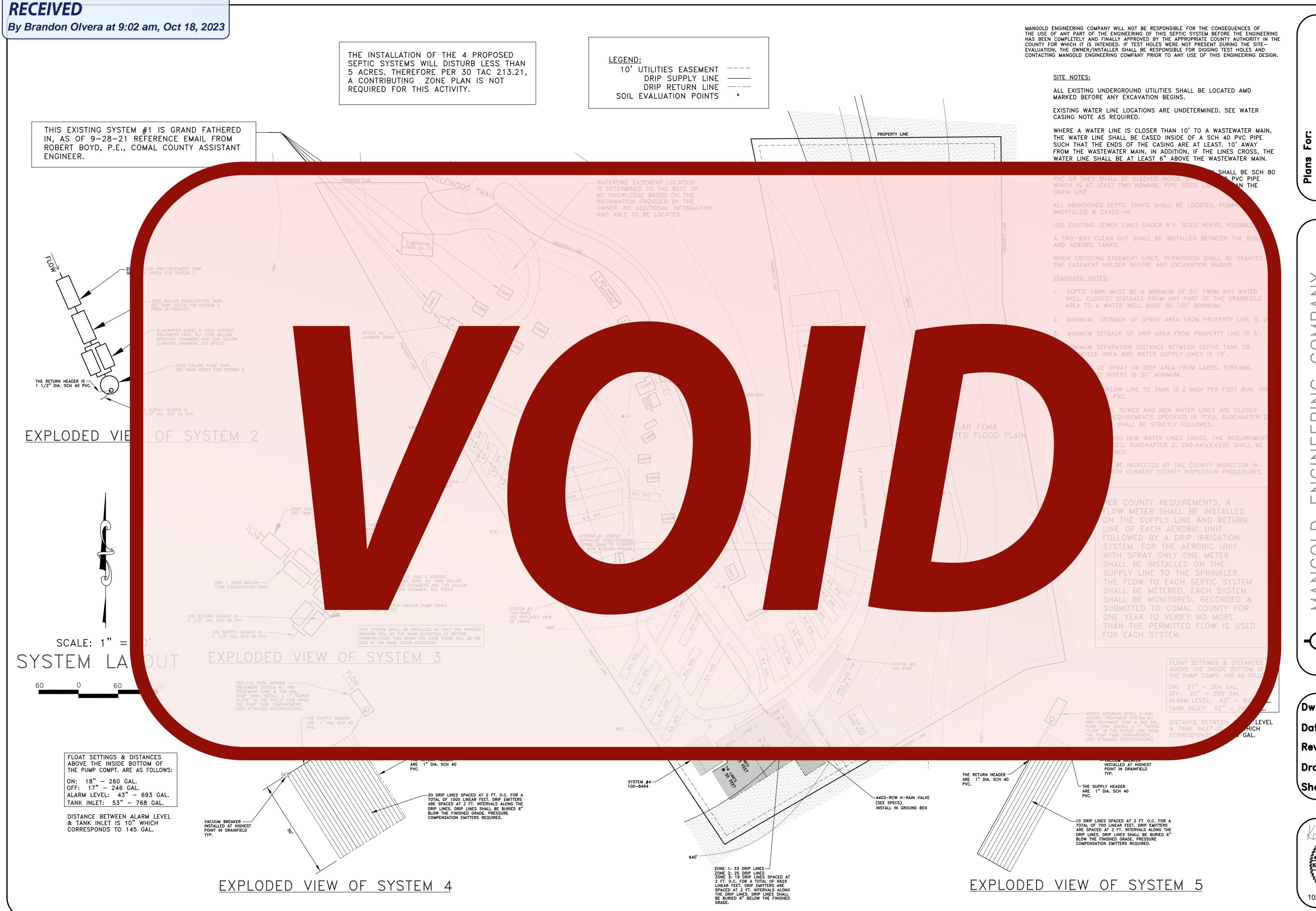
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**Drawn:** K. Crandall

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**Date:** 10/12/23

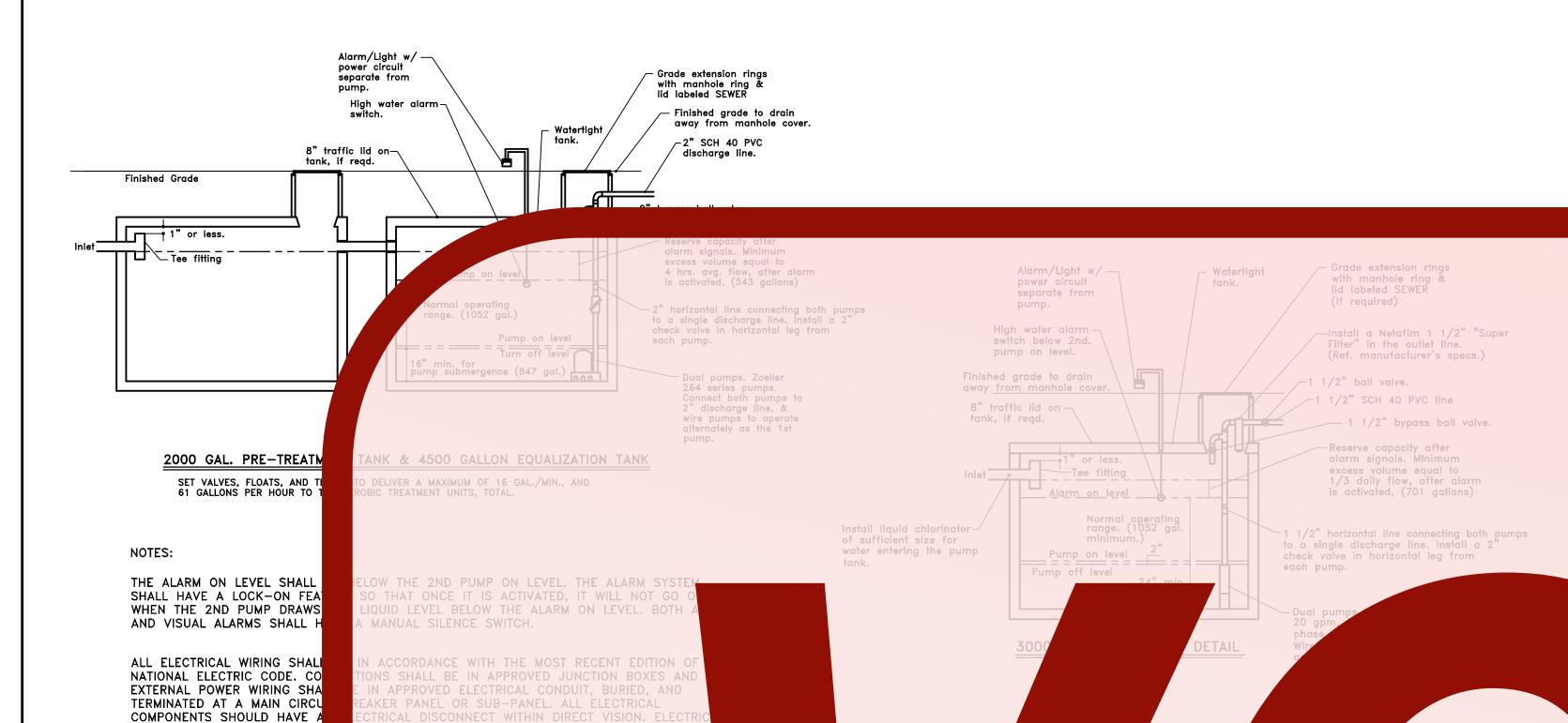
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**Drawn:** K. Crandall

**\Sheet:** 1 of 2



## SYSTEM #2 TANK SPECS:

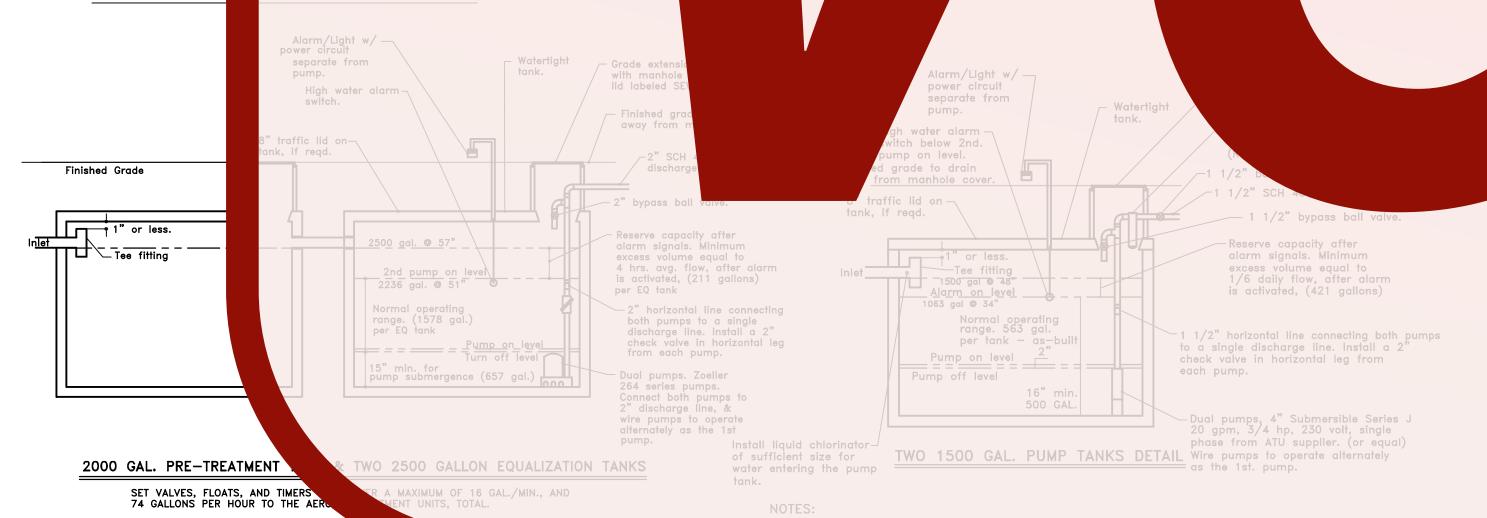


## SYSTEM TANK SPECS:

O MEET MINIMUM STORAGE REQUIREMENTS.

DISCONNECTS MUST BE WEATH MAINTENANCE LOCKOUT PROVI

USE A LARGER TANK IF REQU



WHEN THE ZND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD Q TOTAL-PARK-WATER-USAGE = 4606 GPD

DIRECT RATIO EQUATION:

 Q TCEQ-COMPONENT
 =
 Q COMPONENT

 Q TCEQ-TOTAL-PARK
 Q TOTAL-PARK-WATER-RECORDS

3 BEDROOM <2500 SQ. FT. Q = 240 GPD

OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD

LAUNDRY ROOM W/ 4 WASHING MACHINES

Q= 4 WASHING MACHINES (200 GPD / MACHINE) = 800 GPD

Q= 100 GPD/ CABIN (3 CABINS) = 300 GPD

FOR SYSTEM 2 Q TCEQ COMPONENT:

4 CABINS (AS AN APARTMENT)

 $Q_{TCEO\ COMPONENT} = 1360\ GPD\ SYSTEM\ #1$ 

Q= 100 GPD/ CABIN (4 CABINS) = 400 GPD 6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM)

Q = 60 GPD / BED (6 BEDS) = 360 GPD

SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

Q<sub>TCEO COMPONENT</sub> = 2104 GPD SYSTEM #2

FOR SYSTEM 3 Q TCEQ COMPONENT

Q = 17 RV (40 GPD
5 CABINS (AS AN AP
Q= 100 GPD/ ( = 500 GPD

BATH HOUSE Q = 1; BATH USAGE EQU
CALCULATIONS FOR

Q<sub>TCEQ</sub> COMPONENT

FOR SYSTEM

C

Q<sub>TCEQ</sub> COMPON (STEM #4

FOR SYS

RV SITES (40

Q<sub>TCEQ</sub> COMP #5

FLOW FOR B

JSAGE FROM

RV (33 TOTAL

Q = 2 PEOPLE/ SITE) ( R) = 1400 GPD

Q = f ) = 364 GPD

FOR BOTH BATH REPORT HIS IS MORE THE REPORT OF THE REPORT

TOTAL

GPD + 2104 GF

1360 GPD TCEQ COMPONENT = Q COMPONENT .
6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

DIRECT RATIO FOR SYSTEM 2 Q COMPONENT

2104 GPD TCEQ COMPONENT = Q COMPONENT .

6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 1463 GPD FOR SYSTEM #2

DIRECT RATIO FOR SYSTEM 3 Q COMPONENT:

2524 GPD TCEQ COMPONENT = Q COMPONENT .
6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

360 GPD TCEQ COMPONENT = Q COMPONENT .
6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 251 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT:

<u>280 GPD TCEQ COMPONENT</u> = <u>Q COMPONENT</u> . 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 195 GPD FOR SYSTEM #5

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GOLD ENGINEERING COMPANY

MAN 5596
Devin

Dwg: 100-8497

Date: 10/12/23

Revision:

Drawn: K. Crandall

Sheet: 2 of 2



## SYSTEM #2 TANK SPECS:

REVISED 10:43 am, Dec 16, 2022

Grade extension rings

with manhole ring & lid labeled SEWER

Filter" in the outlet line.

1 1/2" SCH 40 PVC line

alarm signals. Minimum excess volume equal to 1/3 daily flow, after alarm

to a single discharge line. Install a 2"

is activated, (701 gallons)

I 1/2" horizontal line connecting both pumps

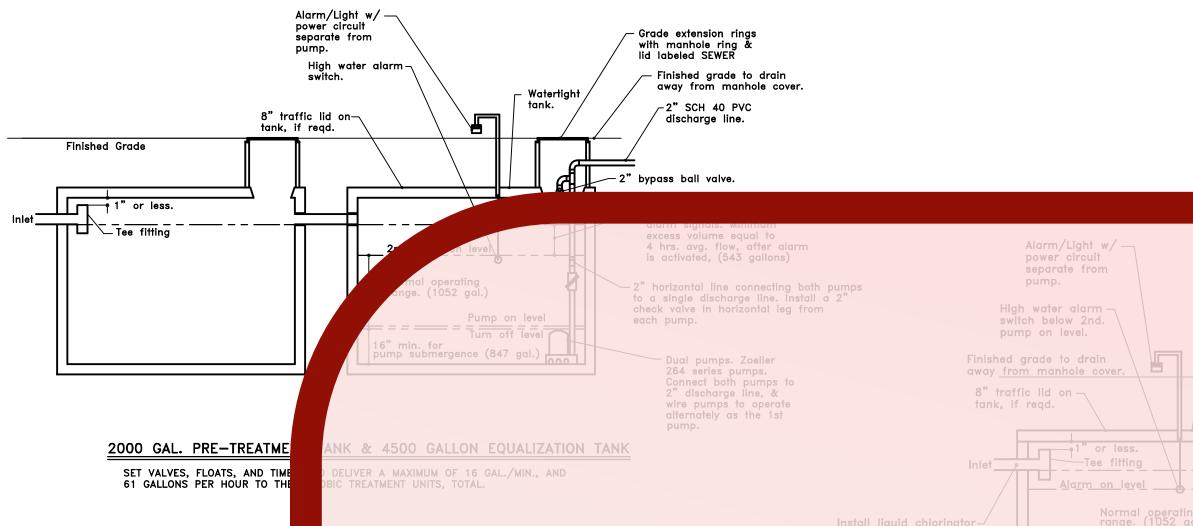
(Ref. manufacturer's specs.

\_\_\_\_ 1 1/2" bypass ball valve.

—Install a Netafim 1 1/2" "Super

(If required)

l 1/2" ball valve.



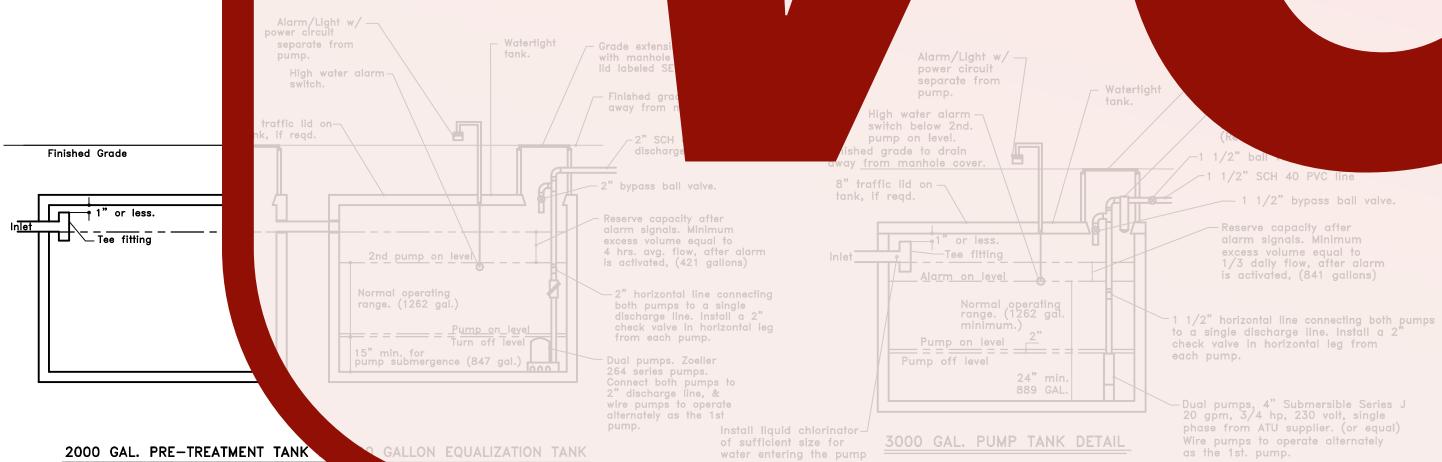
NOTES:

THE ALARM ON LEVEL SHALL B SHALL HAVE A LOCK-ON FEATU THAT ONCE IT IS ACTIVATED, IT WILL NOT GO WHEN THE 2ND PUMP DRAWS 1 QUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AND VISUAL ALARMS SHALL HA

ALL ELECTRICAL WIRING SHALL ACCORDANCE WITH THE MOST RECENT EDITION O NATIONAL ELECTRIC CODE. CONI IS SHALL BE IN APPROVED JUNCTION BOXES AND EXTERNAL POWER WIRING SHALL TERMINATED AT A MAIN CIRCUIT COMPONENTS SHOULD HAVE AN TRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRIC DISCONNECTS MUST BE WEATHE OF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISI

USE A LARGER TANK IF REQUIR MEET MINIMUM STORAGE REQUIREMENTS.

#### SYSTEM TANK SPECS:



of sufficient size for

water entering the pump

SET VALVES, FLOATS, AND TIMERS TO DELIVE 74 GALLONS PER HOUR TO THE AEROBIC TREAT

THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

Pump on level 2"

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

#### CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

DIRECT RATIO EQUATION:

Q COMPONENT Q TCEQ-COMPONENT Q TCEQ-TOTAL-PARK Q TOTAL-PARK-WATER-RECORDS

#### FOR SYSTEM 1 Q TOES COMPONENT:

OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD LAUNDRY ROOM W/ 4 WASHING MACHINES Q= 4 WASHING MACHINES (200 GPD / MACHINE) = 800 GPD 3 CABINS (AS AN APARTMENT)

Q = 100 GPD / CABIN (3 CABINS) = 300 GPD $Q_{TCEQ\ COMPONENT} = 1360\ GPD\ SYSTEM\ #1$ 

FOR SYSTEM 2 Q TCEQ COMPONENT

4 CABINS (AS AN APARTMENT) Q = 100 GPD / CABIN (4 CABINS) = 400 GPD6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM)

SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

Q<sub>TCEQ</sub> COMPONENT = 2104 GPD SYSTEM #2

FOR SYSTEM 3 Q TCEQ COMPONENT:

## D SYSTEM #

9 RV SITE

SPD SYSTEM #

GPD SYSTEM

& SHOWER HOUSE:

TISM THIS IS

## |360 GPD + |

4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

DIRECT RATIO FOR SYSTEM 2 Q COMPONENT:

4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 1463 GPD FOR SYSTEM #2

DIRECT RATIO FOR SYSTEM 3 Q COMPONENT:

Q PERMITTED COMPONENT = 1755 GPD FOR SYSTEM #3

DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

360 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q PERMITTED COMPONENT = 251 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT:

280 GPD TCEQ COMPONENT = 6628 TCEQ TOTAL

Q COMPONENT 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 195 GPD FOR SYSTEM #5

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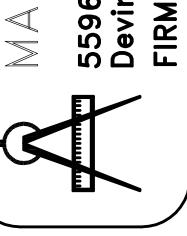
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Revision:

**Date:** 12/14/22

**Drawn:** K. Crandall

**Sheet:** 2 of 2



## SITE EVALUATION AND CALCULATIONS

#### Calculations:

Emitter line shall be used which has emitters spaced at 2 foot intervals, and adjacent emitter lines shall also be spaced at 2 feet on center.

Required line length = A / 2 = (12,620 sq. ft. / 2 sq. ft. per foot) = 6310 feet 6625' of drip line is installed as shown on the System Layout ASBUILT

A 1 1/2" SCH 40 PVC supply line shall be used from the ATU systems pump tank to the drainfield. A 1 1/2" SCH 40 PVC return line from the drainfield back to the pump tank shall be provided. The system shall be set up in accordance with NuWater specifications. (Contact manufacturer for complete specifications and reference the System Layout and details)

NO TES FOR II ALLEP APP'

The TCEQ allow value ig may be water the discontinuous and the septic system unless the prolong to the septic system of the septic syst

A letafim 1 1/2" "Super Filter" 200 mesh/55 micron, shall be installed in a riser in the outlet line of the pump tank compartment.

Configet the 1 1/2" "Super Filter" and assemble in accordance with manufactures specifications..

Contact NuWater dealer for complete specifications. All required specifications may not be contained in this design.

Owner

Rebecca Creek Camprounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

**Drawing No.** 100-84931



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 10/12/23

Scale: None

Sheet 2 of 5



Advantes

GENERAL NOTES:

**REVISED** 

11:16 am, Apr 07, 2022

2000 Gallon Pump Tank

Width: 80" Length: 156"

Scale:

+ at the crash subjects above the marketic process.

Dwg. #1 AOV-81500-2

Altranting 2

Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4061



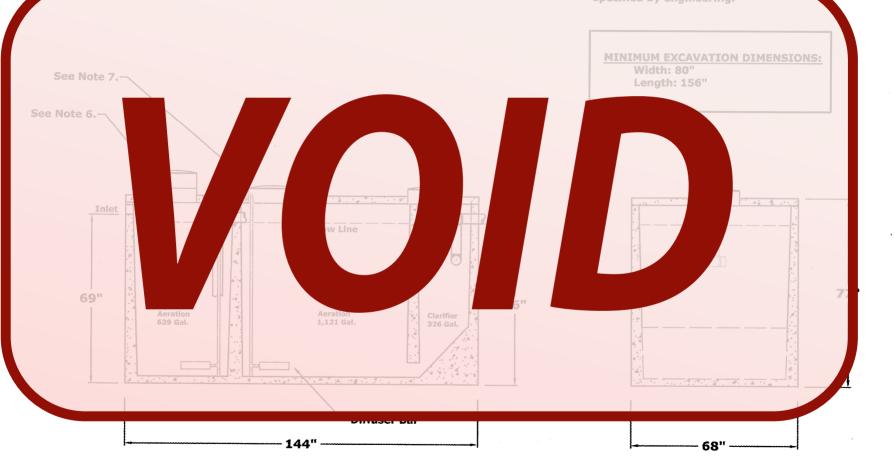
## **REVISED**

11:16 am, Apr 07, 2022

#### **GENERAL NOTES:**

- . Plant structure material to be precast concrete and steel.
- Maximum burial depth is 30" from slab top to grade.
- 3. Weight = 16,600 lbs.
- 4. Treatment capacity is 1,500 GPD.
- 5. BOD Loading = 4.50 lbs. per day.
- 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
- 1" Sch. 40 PVC Air Line to NuWater B-1500 Air Compressor (Max. 50 Lft from Plant).

specified by engineering.



# **NuWater B-1500 Duel Aeration Aerobic Treatment Plant**

Model: B-1500

July, 2010 By: A.S.

#### Scale:

 All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B1500-2



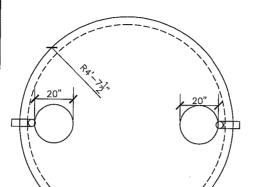
Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051

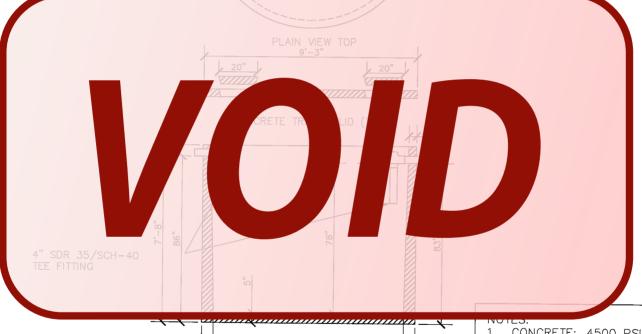
#### **CERTIFICATIONS:**

\* ANALYSIS AND DESIGN IN ACCORDANCE WITH ASTM STANDARD C 1227

### **REVISED**

11:16 am, Apr 07, 2022





## SINGLE COMPARTMENT TANK

1. CONCRETE: 4500 PSI

REINFORCEMENT: #3 REBAR 1' ON CENTER IN LID AND FLOOR W/ 1' TURN UP

IN WALL 3"X5"X1/4" MESH WIRE IN

WALLS 3. 5" TRAFFIC LID (STD) 4. TANK WEIGHT: 20,126.7#

- 5. CAPACITY: 2706 GAL
- 6. GAL/IN = 34.7
- INLÉT & OUTLET

MEASURED FROM BOTTOM OF TANK TO FLOWLINE.



**BLOCK CREEK CONCRETE** STREET ADDRESS:

444 OLD #9 HWY A

3000 GAL. SINGLE COMP. SEPTIC TANK

PREPARED BY: GREG W. JOHNSON, P.E., F#2585

SCALE: 1/4" = 1'-0"

12/1/2017

REVISED:

#### Olvera, Brandon

From: Olvera, Brandon

Sent: Wednesday, October 18, 2023 9:26 AM

**To:** Stephen Mangold

**Cc:** rebeccacreekgrounds@gmail.com; Massie, Cassandra S; Majid Howiatdost; Connor, James F

**Subject:** RE: Rebecca Creek Sys 3 asbuilt

#### Good Morning,

File has been updated.

Page labeled 2 of 5 on the asbuilt, still references NuWater.

2. Tank Details Needed:

Existing 1000 gallon dual compartment tank.

Equalization Tanks

1500 gallon pump tanks

3. Revise accordingly and resubmit.

Thank You,

**Brandon Olvera** | **Designated Representative OS0034792** | Comal County | <u>www.cceo.org</u> 195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

From: Stephen Mangold <stevemangold1@gmail.com>

**Sent:** Friday, October 13, 2023 9:15 AM **To:** Olvera,Brandon < Olverb@co.comal.tx.us>

Subject: Rebecca Creek Sys 3 asbuilt

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

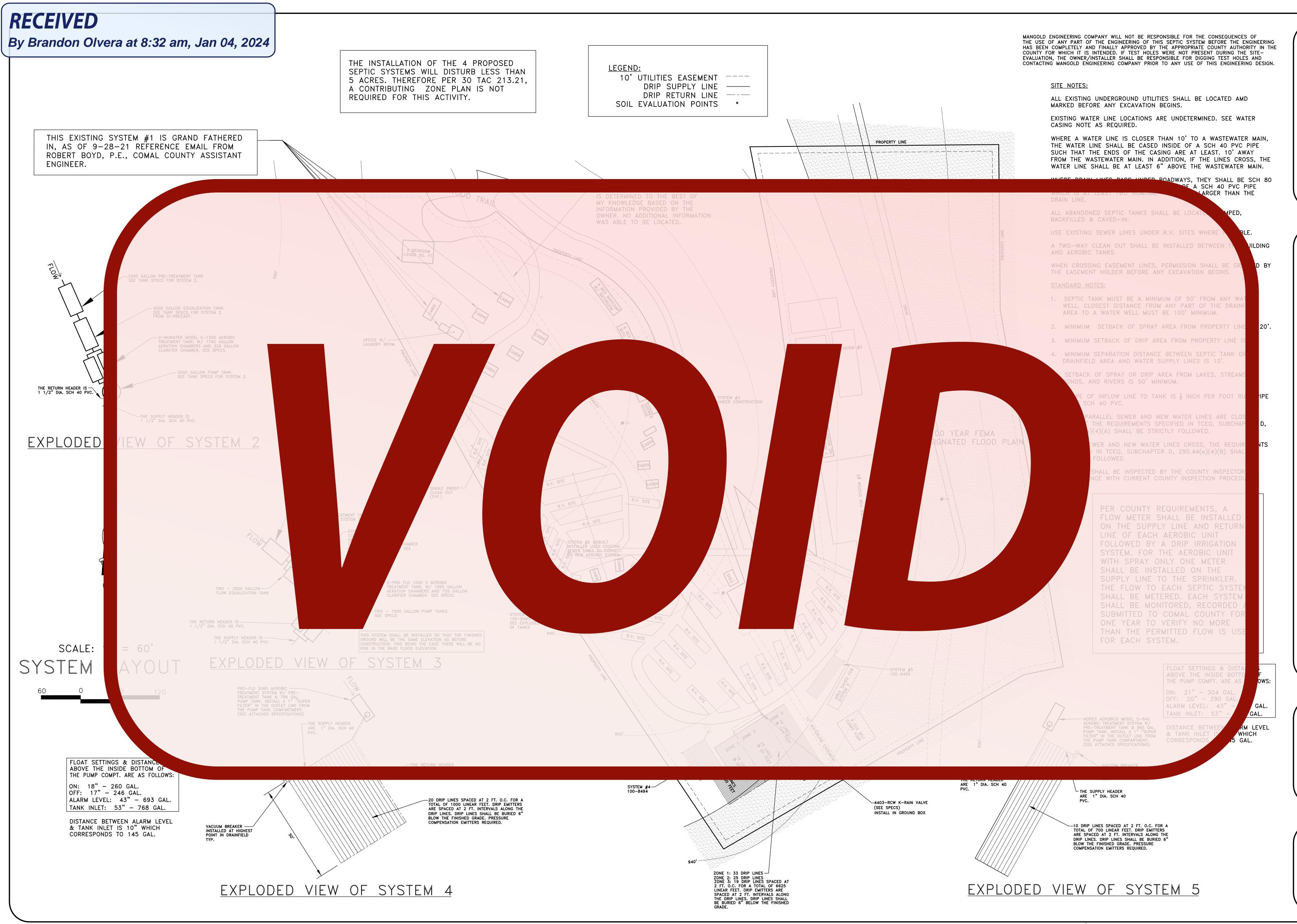
Hi Brandon!

I've been asked to send these revisions to you for the inspection of system #3

Thank you

Kaeleigh

Sent from my iPhone



REBECCA CREEK CAMPGROUNDS

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LO ENGINERING COMPANY

S596 O Devine, FIRM N

wg: 100-8497

Date: 12/29/23
Revision: i

Drawn: K. Crandall

Sheet: 1 of 2

oneer: 1 or 2



(0)

**Date:** 12/29/23

Revision:

**Drawn:** K. Crandall

**Sheet:** 2 of 2

KAELEIGH ROSE CRANDALL

SYSTEM #2 TANK SPECS:

Alarm/Light w/ — power circuit Grade extension rings separate from pump. lid labeled SEWER High water alarm — switch. Finished grade to drain Finished grade to drain away <u>from manhole cover.</u> Watertight tank. -2" SCH 40 PVC 8" traffic lid on — 8" traffic lid on discharge line. tank, if reqd. tank, if reqd. Finished Grade Inlet Tee fitting alarm signals. Minimum 4 hrs. avg. flow, after alarm is activated, (543 gallons) water entering the pump range. (1228 gal. per tank) to a single discharge line. Install a 2" check valve in horizontal leg from = = = = = Turn off level 264 series pumps.
Connect both pumps to 2" discharge line, & AS-BUILT 2000 GAL. PRE-1 MENT TANK & TWO 2500 GALLON EQUALIZATION TANK IMERS TO DELIVER A MAXIMUM OF 16 GAL./MIN., AND

THE ALARM ON LEVEL URE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT SHALL HAVE A LOCK-O WHEN THE 2ND PUMP THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. E

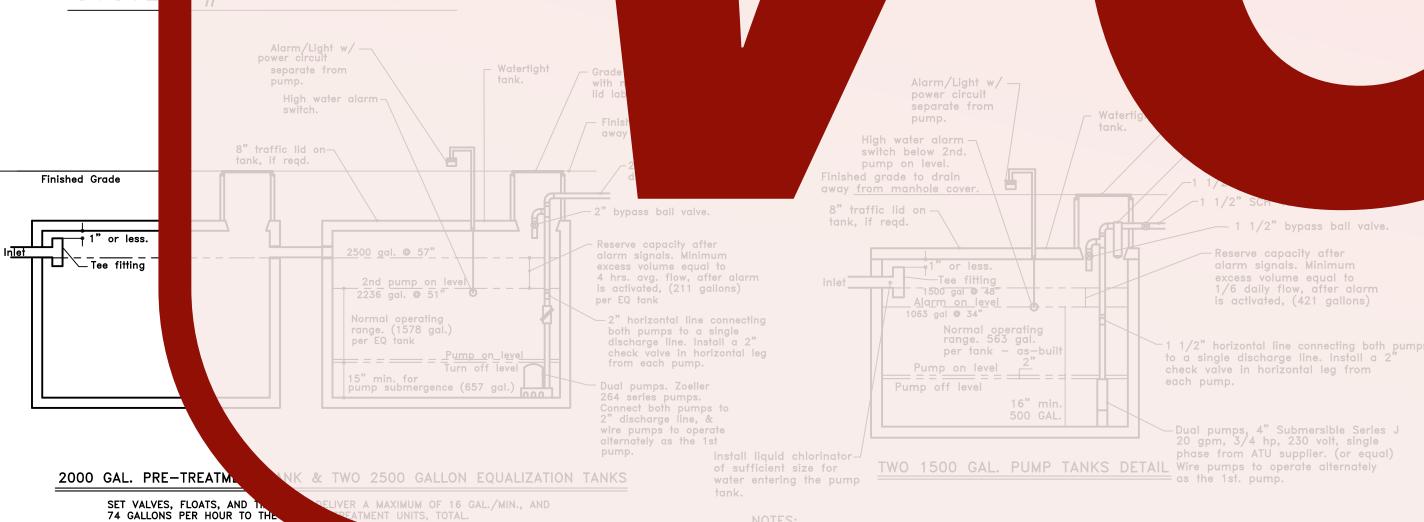
ALL ELECTRICAL WIRING BE IN ACCORDANCE WITH THE MOST RECENT EDIT NATIONAL ELECTRIC COL EXTERNAL POWER WIRIN . BE IN APPROVED ELECTRICAL CONDUIT, BURIED, T BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL TERMINATED AT A MAIN COMPONENTS SHOULD F DISCONNECTS MUST BE MAINTENANCE LOCKOUT

AVE A MANUAL SILENCE SWITCH.

USE A LARGER TANK IF

AND VISUAL ALARMS SI

SYSTE #3 TANK SPECS:



WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

DIRECT RATIO EQUATION:

– Grade extension rings

with manhole ring & lid labeled SEWER

—Install a Netafim 1 1/2" "Super Filter" in the outlet line.

(Ref. manufacturer's specs.)

 $\sim$  1 1/2" bypass ball valve.

1 1/2" horizontal line connecting both pumps

to a single discharge line. Install a 2" check valve in horizontal leg from

phase from ATU supplier. (or equal)

— Finished grade to drain

discharge line.

away from manhole cover -2" SCH 40 PVC

2" discharge line, &

alternately as the 1st

(If required)

 $\sim$ 1 1/2" ball valve.

\_\_\_1 1/2" SCH 40 PVC line

Alarm/Light w/ —

38" @ 1188 gal.

Normal operating range. (625 gal.

TWO 1500 GAL. PUMP TANK DETAIL Wire pumps to operate alternately

power circuit

High water alarm — switch below 2nd.

AS-BUILT

pump on level.

separate from

Q TCEQ-COMPONENT = Q COMPONENT Q TCEQ-TOTAL-PARK Q TOTAL-PARK-WATER-RECORDS

3 BEDROOM <2500 SQ. FT. Q = 240 GPD OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD LAUNDRY ROOM W/ 4 WASHING MACHINES Q= 4 WASHING MACHINES (200 GPD / MACHINE) = 800 GPD 3 CABINS (AS AN APARTMENT)

Q = 100 GPD / CABIN (3 CABINS) = 300 GPD

Q<sub>TCEQ</sub> COMPONENT = 1360 GPD SYSTEM #1

FOR SYSTEM 2 Q TCEQ COMPONENT

4 CABINS (AS AN APARTMENT) Q = 100 GPD / CABIN (4 CABINS) = 400 GPD6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM) SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

Q<sub>TCEQ</sub> COMPONENT = 2104 GPD SYSTEM #2

FOR SYSTEM 3 Q TOFO Q = 17 RV

D SYSTEM #3

9 RV SITE

PD SYSTEM #

GPD SYSTEM ;

SPD/ RV (33

IOWER) = 1400 GPD

ISM THIS IS

360 GPD +

4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

DIRECT RATIO FOR SYSTEM 2 Q COMPONENT:

2104 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 1463 GPD FOR SYSTEM #2

DIRECT RATIO FOR SYSTEM 3 Q COMPONENT

DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

360 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 251 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT:

280 GPD TCEQ COMPONENT = 6628 TCEQ TOTAL Q COMPONENT .
4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 195 GPD FOR SYSTEM #5

# RECEIVED

By Brandon Olvera at 8:32 am, Jan 04, 2024

## Olvera, Brandon

From: Olvera, Brandon

Sent: Thursday, February 15, 2024 10:03 AM

**To:** Robert Sutcliffe; Ritzen, Brenda

**Cc:** Boyd, Robert; Massie, Cassandra S; Connor, James F; RCC; Repo Homes; Rodrigo Jardon; Alan

Carranza; carlosnrfreedom@gmail.com; Cesar Salgado

**Subject:** RE: 3660 Tanglewood Trail/RV park **Attachments:** Rebecca Creek Campground.pdf

## Good Morning,

The images and ir for the work carried out by the certified plumber have been received (refer to the attached email the plan provided by Kaeleigh Crandall should illustrate the section installed by the licensed plumber. In cense to Operate (LTO) will be granted after all inspections are completed and the erosion issue is resolved. As per the email mentioned below, if a different installer assumes responsibility for the job, we would prefer to conduct an additional operational inspection to ensure everything is functioning as it should.

#### Thank You,

| Brandon Olvera | Designated Representative OS0034792 | Comal County | www.cceo.org | 195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us |

#### Olvera, Brandon

From: Rebecca Creek Campgrounds < rebeccacreekcampgrounds@gmail.com>

Sent: Wednesday, February 14, 2024 10:10 AM

**To:** Olvera, Brandon

**Subject:** Rebecca Creek plumbing lines installation for septic tanks

## This email originated from outside of the organization.

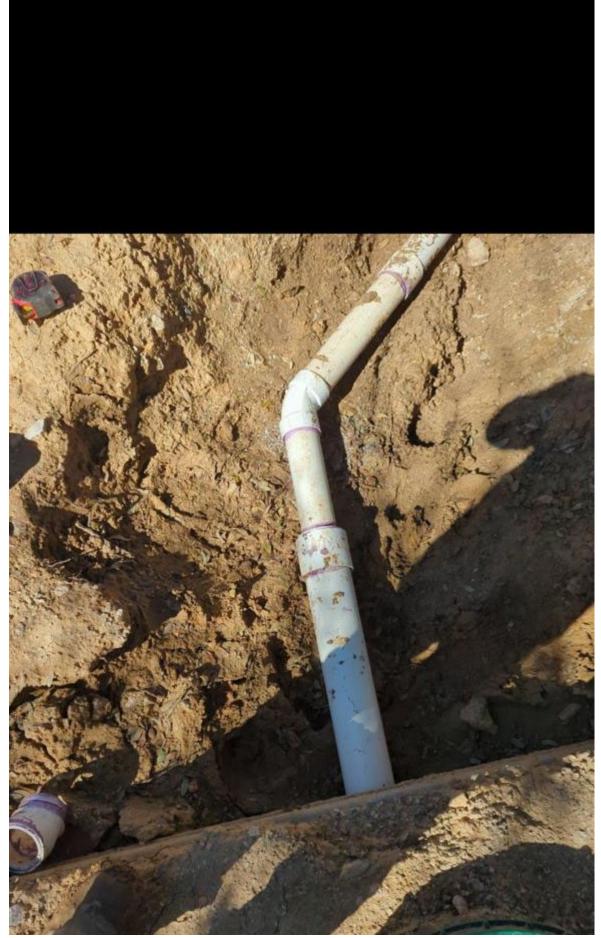
Do not click links or open attachments unless you recognize the sender and know the content is safe.

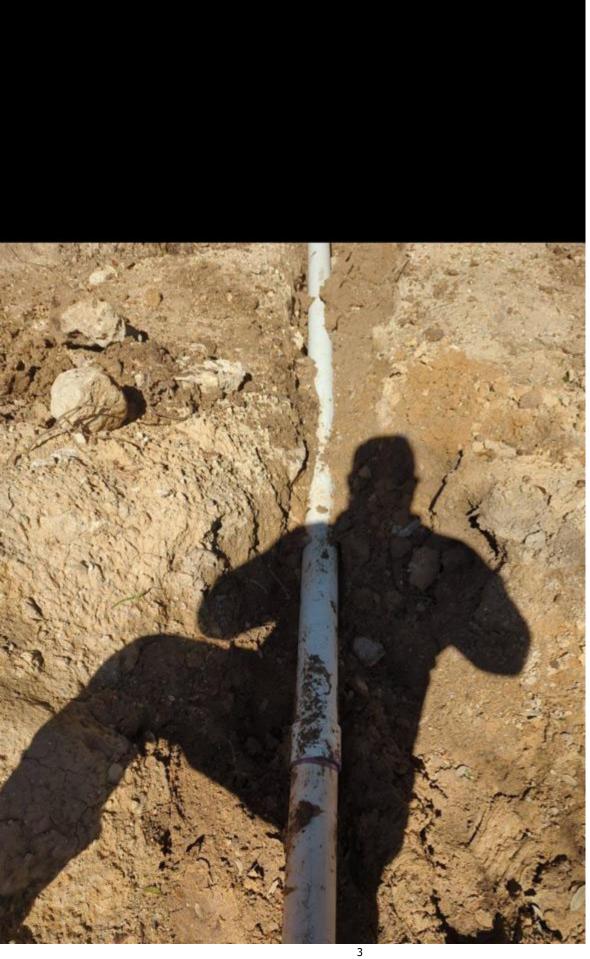
- Comal IT

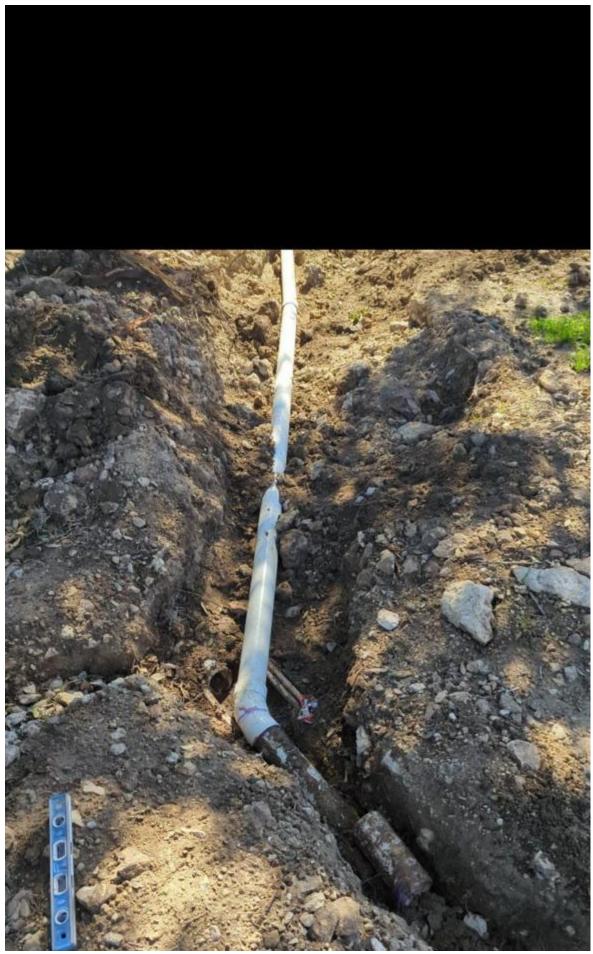
#### Brandon,

I am writing to anyou that all the plumbing lines leading up to the septic tanks at the property located at Rebeat Cre campgrounds have been installed by a licensed plumber, as requested. The plumbers' names are Comparison of Martinez & Rene Reyes and the license number is #56117. They have followed all the required codes an artandards for the installation and they've given me an invoice proving completion of his work.

As evidence that the work was completed, I have attached pictures of the plumbing lines and the plumber's invoice to this email. Please advise if this is the necessary documentation needed to obtain our LTOs. I appreciate your cooperation and prompt response in this matter.













From: <u>Ritzen, Brenda</u>

To: "robert@enukiinvestments.com"

Cc: <u>Boyd, Robert; Massie, Cassandra S; Olvera, Brandon; Connor, James F</u>

Subject: FW: 3660 Tanglewood Trail/RV park

Date: Wednesday, February 7, 2024 12:59:00 PM

Attachments: <u>image001.png</u>

3660 Tanglewood.zip

Re: Rebecca Creek Campgrounds

14.23 acres, 3660 Tanglewood Trail

On-Site Sewage Facility (OSSF) Permits 113609 & 113610

Mr. Sutcliffe:

Our design ducted a site visit yesterday at the referenced property. For your situational awaren and have attached pictures representative of our visit. Backfill materials have been washed away from the drip system leaving the system exposed and no longer compliant with OSSF Regulations.

Also, it has come to our attention that the daily water meter readings as required by the Special Permit Conditions for Permits 113611 & 113612 (see attached) have not been submitted. Please submit the required daily meter readings from mid-February 2023 to present.

Thank you,



#### **Brenda Ritzen**

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Connor,James F <connoj@co.comal.tx.us>

**Sent:** Wednesday, February 7, 2024 9:18 AM **To:** Ritzen, Brenda <a href="mailto:rabbjr@co.comal.tx.us">rabbjr@co.comal.tx.us</a>

Massie, Cassandra S < massic@co.comal.tx.us>

**Subject:** 3660 Tanglewood Trail/RV park

Brenda,

These are the photos I took on 2/6/24 showing erosion damage/exposed drip tubing on



















## Olvera, Brandon

From: Olvera, Brandon

Sent: Thursday, January 4, 2024 8:58 AM

**To:** Stephen Mangold

Cc: rebeccacreekgrounds@gmail.com; Massie, Cassandra S; Majid Howiatdost; Connor, James F

**Subject:** RE: Rebecca Creek Sys 3 asbuilt

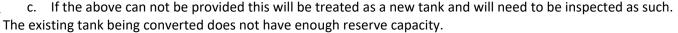
#### Good Morning,

File has been updated.



Provide a spec sheet for the existing 1000 Gallon dual compartment septic tank.

- a. How is this tank being plumbed into the system?
- b. TAC 285.32- Provide documentation that this tank was installed level and is watertight and meets the ASTM Standard C1227.



- a. Per 285.34(b)(2) all pump tanks need to have a minimum of 1/3 day reserve capacity.
- 3. Revise Accordingly and resubmit.

Thank You,

Note: Beginning January 1, 2024 our reinspection fees will be changing to \$150.00. Permit fee includes 3 inspections, \$150 each additional inspection

Brandon Olvera | Designated Representative OS0034792 | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us



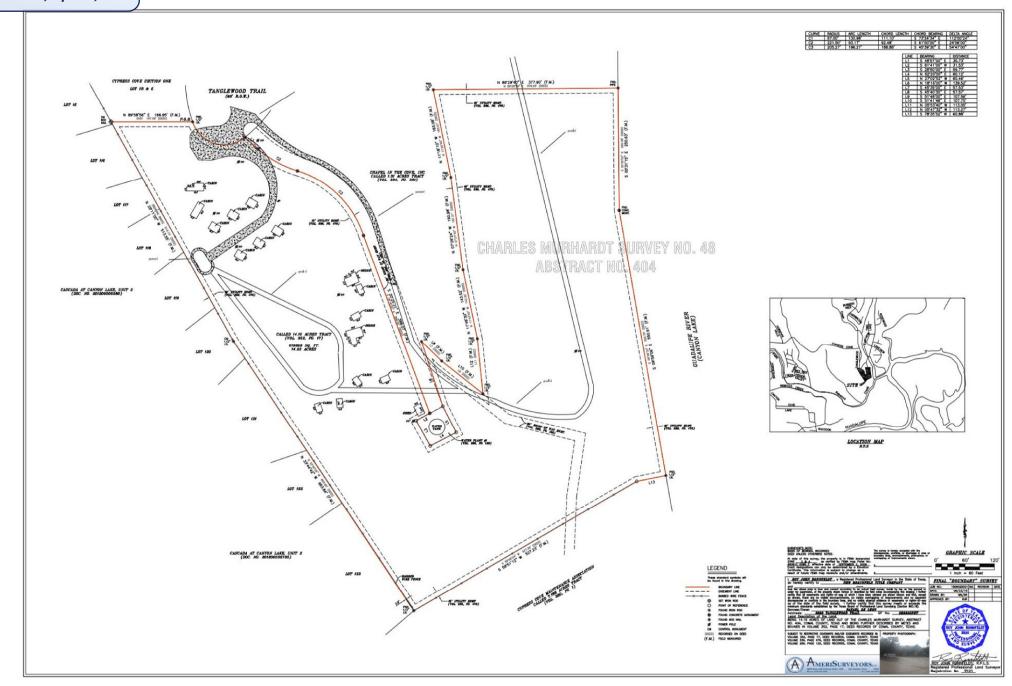
# **OSSF DESIGN**

for Rebecca Creek Campgrounds

Survey

## **REVISED**

11:18 am, Apr 07, 2022





# **OSSF DESIGN**

for Rebecca Creek Campgrounds

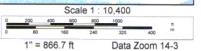
**Maps** 

Data use subject to license.

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www.delorme.com





## National Flood Hazard Layer FIRMette



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



#### Legend

MAP PANELS

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X **Effective LOMRs** OTHER AREAS Area of Undetermined Flood Hazard Zone D - -- Channel, Culvert, or Storm Sewer STRUCTURES IIIIII Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation 8 - - - Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline **OTHER Profile Baseline FEATURES** Hydrographic Feature **Digital Data Available** No Digital Data Available

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

Unmapped

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/30/2021 at 4:13 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

My Title Company of Texas

CT# 202004X-M

#### WARRANTY DEED WITH VENDOR'S LIEN

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

Date:

April 15, 2021

Grantor:

RAFAEL DE LEON, an unmarried man

Grantor's Address: 3660 Tanglewood Trl. Spring Branch, TX 78070

Grantee:

REBECCA CREEK CAMPGROUNDS, LLC

Grantee's Address: 3660 Tanglewood Trl, Spring Branch, TX 78070

Consideration: TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable consideration, and a note of even date herewith, executed by Grantee, payable to the order of Grantor (the "Note"). It is secured by a vendor's lien retained in this deed and by a deed of trust of even date from Grantee to MATTHEW J. BADDERS, Trustee.

Property (including any improvements):

Being 14.23 acres of land out of the Charles Murhardt Survey, Abstract No. 404, Comal County, Texas, and being further described by metes and bounds in Exhibit "A" attached.

Being 2.0 acres of land out of the Charles Murhardt Survey, Abstract No. 404, Comal County, Texas, and being further described by metes and bounds in Exhibit "B", attached.

#### Reservations from Conveyance; Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to conditions, restrictions, and easements appearing of record, if any, in Comal County, Texas, which affect the hereinabove described property; and

#### Conveyance:

Grantor, for the Consideration and subject to the Reservations from Conveyance and Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and

appurtenances thereto in any way belonging, to have and hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

The vendor's lien against and superior title to the Property are retained until each note described is fully paid according to its terms, at which time this deed will become absolute.

This conveyance is made subject to the prior lien ("Underlying Lien") of a deed of trust recorded as Instrument Number 201506025975, Real Property Records of Comal County, Texas, to EDWARD L. LETTE, Trustee thereunder, which secures payment of a promissory note ("Underlying Lien Debt") in the original principal amount of FOUR HUNDRED AND SIXTY-FIVE THOUSAND DOLLARS (\$465,000.00). Grantee in this deed does not assume payment of that Underlying Lien Debt; provided, however, that any payments advanced by Grantee applied directly to the Underlying Lien Debt principal shall be applied to reduce the principal balance of the Note. As further consideration Grantor promises to keep and perform all of the covenants and obligations of the grantor named in the Underlying Lien deed of trust and to indemnify, defend, and hold Grantee harmless against any damages caused by Grantor's breach of its obligation under the Underlying Lien Debt and related documents, as long as Grantee is not in default on the Underlying Lien Debt and documents relating to it.

When the context requires singular nouns and pronouns include the plural. EXECUTED this the \_\_\_\_\_\_ day of April, 2021.

STATE OF TE

This instrument was acknowledged before me on the 2021, by RAFAEL DE LEON.

THERESA ANN WERNETTE Notary Public, State of Texas Courn. Expires 05-05-2022 Notary ID 5146360

Notary Public, State of Texas

#### Exhibit A

#### METES & BOUNDS DESCRIPTION

OF A 14.23 (CALLED 14.15) ACRE TRACT OF LAND OUT OF THE CHARLES MURHARDT SURVEY, ABSTRACT NO. 404, COMAL COUNTY, TEXAS, BEING THE SAME TRACT OF LAND AS DESCRIBED IN A DEED FROM ROEDERER ENTERPRISES, LLC TO RICHARD ROEDERER IN DOCUMENT NO. 200906004161, OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS, SAID TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING at a found ½" iron rod in the cul-de-sac of Tanglewood Trail (a 50' Public R.O.W.) for the most westerly northeast corner of the herein described tract, the southeast corner of Lot 1R and 5, Cypress Cove Subdivision Section One, as recorded in Vol. 1, Pg. 45, Map and Plat Records of Comal County, Texas, said rod being a point of curvature;

THENCE along and with a non-tangent curve to the left with the following parameters:

Radius: 67.00 fcet Arc Length: 130.98 feet Chord Length: 111.10 feet

Chord Bearing: South 73°24'34" East

Delta Angle: 112°00'24"

To a set ½" iron rod for an angle point, the northwest corner of a 30' Ingress-Egress Easement as recorded in Vol. 296, Pg. 130, Deed Records of Comal County, Texas, the northwest corner of a called 1.31 acre tract as described in a deed to Chapel in the Cove recorded in Vol. 334, Pg. 331, Deed Records of Comal County, Texas;

THENCE along and with said easement, South 48°57'00" East, a distance of 35.73 feet to a set ½" iron rod for a point of curvature;

THENCE along and with a tangent curve to the left with the following parameters:

Radius: 221.50 feet Arc Length: 93.17 feet Chord Length: 92.48 feet

Chord Bearing: South 61°00'00" East

Delta Angle: 24°06'00"

To a set 1/2" iron rod for a point of reverse curvature;

THENCE along and with a tangent curve to the right with the following parameters:

Radius: 205.27 feet Arc Length: 196.27 feet Chord Length: 188.88 feet

Chord Bearing: South 45°39'30" East

Delta Angle: 54°47'00"

To a set 1/2" iron rod for a point of tangency;

THENCE continuing along and with said easement, South 20°25'31" East, a distance of 388.07 feet (called South 18°16'00" East, a distance of 399.55 feet) to a set ½" iron rod for an angle point of the herein described tract, a point in the north boundary line of Water Plant No. 1, as recorded in Vol. 296, Pg. 125, Deed Records of Comal County, Texas;

THENCE along and with the common boundary line of the herein described tract and said Water Plant No. 1, the following courses and distances:

South 61°41'00" West, a distance of 31.53 feet to a set ½" iron rod for an angle point of the herein described tract, the northwest corner of said Water Plant No. 1;

South 28°50'00" East, a distance of 59.77 feet to a set 1/2" iron rod for an angle point of the herein described tract, the southwest corner of said Water Plant No. 1;

North 62°20'00" East, a distance of 60.12 feet to a set ½" iron rod for an angle point of the herein described tract, the southeast corner of said Water Plant No. 1;

North 27°02'52" West, a distance of 60.46 feet to a set 1/2" iron rod for an angle point of the herein described tract, the intersection of said 30' easement and said Water Plant No. 1;

**THENCE** along the common boundary of the herein described tract and said 1.31 Acre Tract, the following courses and distances:

North 18°16'00" West, a distance of 139.52 feet to a found 1/2" iron rod for an angle point;

South 45°40'30" East, a distance of 57.57 feet (called South 45°39'00" East, a distance of 57.53 feet) to a found 1/2" iron rod for an angle point;

South 51°41'46" East, a distance of 107.75 feet (called South 51°48'00" East, a distance of 107.56 feet) to a found 1/2" iron rod for an angle point;

North 05°47'32" West, a distance of 113.27 feet (called North 05°53'40" West, a distance of 113.05 feet) to a found 1/2" iron rod for an angle point;

North 11°48'30" West, a distance of 143.52 feet (called North 11°43'40" West, a distance of 143.30 feet) to a found 1/2" iron rod for an angle point;

North 07°28'24" West, a distance of 190.98 feet (called North 07°27'40" West, a distance of 191.21 feet) to a found ½" iron rod for an angle point;

North 11°18'10" West, a distance of 183.08 feet (called North 11°20'40" West, a distance of 183.01 feet) to a found '\( \frac{1}{2} \)" iron rod for the most easterly northwest corner of the herein described tract, an angle point of said 1.31 Acre Tract;

North 89°29'40" East, a distance of 377.90 feet (called North 89°29'58" East, a distance of 378.05 feet) to a found pipe for the northeast corner of the herein described tract, the most easterly southeast corner of said 1.31 Acre Tract, a point in the banks of the Guadalupe River (Canyon Lake);

THENCE along and with the meanders of said River, the following courses and distances:

South 00°31'15" East, a distance of 250.63 feet (called South 00°30'00" East, a distance of 250.48 feet) to a found concrete monument for an angle point;

South 09°59'06" East, a distance of 550.91 feet (called South 09°59'33" East, a distance of 550.70 feet) to a found '\( \lambda'' \) iron rod for the southeast corner of the herein described tract;

South 78°35'52" West, a distance of 60.88 feet to a point of reference for an angle point;

South 59°51'12" West, a distance of 527.23 feet (called South 59°48'24" West, a distance of 527.36 feet) to a found ½" iron rod for the southwest corner of the herein described tract, the most easterly corner of Lot 123, Cascada at Canyon Lake Unit 2, as recorded in Doc. No. 201203035725, Official Public Records of Comal County, Texas;

THENCE with the common boundary of the herein described tract and said Cascada Tract, North 33°44'42" West, a distance of 663.84 feet (called North 33°45'26" West, a distance of 663.95 feet) to a found ½" iron rod for an angle point;

THENCE continuing along and with said boundary, North 29°11'00" West, a distance of 513.55 feet (called North 29°11'00" West, a distance of 513.74 feet) to a found 60d nail for the northwest corner of the herein described tract, the southwest corner of said Lot 1R and Lot 5, Cypress Cove Section One;

THENCE along and with the common boundary of the herein described tract and said Lot 1R and 5, North 89°58'56" East, a distance of 166.95 feet (called East, a distance of 167.08 feet) to the POINT OF BEGINNING and containing 14.23 acres, more or less.

STATE OF TEXAS §

June 25, 2015

COUNTY OF BEXAR §

It is hereby certified that the above description was prepared from an actual survey on the ground of the described tract made under my supervision.

Roy John Konnfe dt, Registered Professional Land Surveyor

Registration No. 3520

#### EXHIBIT "B"

#### FIELD NOTES DESCRIBING 2.0 ACRES OF LAND IN COMAL COUNTY, TEXAS

Being 2.0 acres of land situated within the Charles Murhardt Survey Number 48, Abstract 404, Compil County, Texas. Said 2.0 acres of land being that same property, called Tract 2, as described in Warranty Deed of Assumption dated September 13, 1983, Grantor: Howard D. Spandan, Grantee: James H. Borlack and wife, Calla G. Borlack, recorded in volume 352, page 17 of the Deed Records of Comal County, Texas. A plat of survey has been prepared to accompany these field notes. The bearings recited herein are based on the hereinabove Tract 2 recorded in volume 352, page 17. Said 2.0 acres of land being more particularly described as follows:

- BEGINNING at a found iron pin being the northwest corner of this herein described 2.0 acres of land, from which a found iron pin being the west corner of Lot 82, Cypress Cove Subdivision, Section 5, bears, as a reference, North 30°18'22" West, 731.34 feet. Said Cypress Cove Subdivision, Section 5, being as recorded in volume 1, page 77 of the Map and Plat Records of Comal County, Texas;
- THENCE North 87°00'16" East, 298.86 feet to a found from pin being the northeast corner of this berein described 2.0 screetract of land;
- THENCE South 02°44'09° East, (record bearing South 02°59'30" East), ZZ0.89 feet to a found iron pin being the southeast corner of this herein described 2.0 acre tract of land;
- THENCE South 53°12'59" West, 69.96 feet to a found iron pin;
- THENCE South 66°59'51" West, (basis of bearings), 256.34 feet to a found iron pin being the southwest corner of this herein described 2.0 acre tract of land; '
- THENCE North 02°48'19" West, (record bearing North 02°59'30" West), 347.50 feet to the Place of Beginning and containing 2.0 acres of land in Comal County, Texas according to an actual survey made on the ground under my supervision on April 14, 2004.

### FILED AND RECORDED

Instrument Number: 201506025974

Recording Fee: 54.00

Number Of Pages: 9

Filing and Recording Date: 07/01/2015 3:53PM

Deputy: KELLI JOHNSTON

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Comal County, Texas.



Bobble Koepp, County Clerk

Comal County, Texas

NOTICE: It is a crime to Intentionally or knowingly file a fraudulent court record or instrument with the clerk.

DO NOT DESTROY - Warning, this document is part of the Official Public Record.

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 04/23/2021 04:14:52 PM KATB 8 Pages(s) 202106021927





#### **Account & Contact Information**

Account Rebecca Creek Campgrounds

Phone (830) 222-6003 \

Address 3660 Tanglewood Trail

Spring Branch, TX 78070

**United States** 

Prepared By Sherrie Vukela

(855) 560-9909 🦠

Company Address 9595 Ranch Rd 12 Suite #1

Wimberley, TX 78676

#### System Details

Asset Rebecca Creek Campgrounds # 1 Description

Appointment Information

Scheduled Start 6/4/2025, 10:54 AM

Appointment

SA-43921

Number

Phone

Subject Repair Description Check system -

Work Details

Work Type Service Call

Work Order Number 00180339

Service Results Sv

System 1 (the closest system to the front of the property) is the reason we were called out. The county inspector came by on a nuisance call from the nearby church. System 1 was overflowing onto the church property. County inspector also noted that many lids were missing screws.

Upon arrival, customer had already pulled out and cleaned filters, allowing to the system to pump down and resume normal activity. I confirmed that floats and timer were functional as well. If drainage problem persists (assuming the clogged filters were not the culprit), the reason will be due to drain field lines running to close to the road. This means the solution will be to re position and design the drain field.

System 2 is in the middle of the rv park. System 2 has no power running to the EQ tanks control panel. Determined problem to be a resulted of blown wiring inside the conduit. Customer confirmed that they reached out to an electrician and will run new power lines to control panel to fix problem.

System 3 is the bottom left system on the topography map listed in county permit records. This system was off upon arrival. It was determined that some of the local kids turned system off on accident. Upon supplying power to system, noted that filters were clogged. Drip filter was cleaned. Pump filter still needs to be pulled out and cleaned. Customer confirmed that they are going to use a sump pump to get water levels down so they can pull out and clean pump



filter.

System 4 is bottom right on topography map. Nothing notably wrong with system 4 at the moment.

Service fee 95\$

Next inspection should be due in July/august.

Services					
Service S	Subject	Description	Quantity	Unit Price	Total Price
Service S Call C	Service Call	System 1 (the closest system to the front of the property) is the reason we were called out. The county inspector came by on a nuisance call from the nearby church. System 1 was overflowing onto the church property. County inspector also noted that many lids were missing screws. Upon arrival, customer had already pulled out and cleaned filters, allowing to the system to pump down and resume normal activity. I confirmed that floats and timer were functional as well. If drainage problem persists (assuming the clogged filters were not the culprit), the reason will be due to drain field lines running to close to the road. This means the solution will be to re position and design the drain field.  System 2 is in the middle of the rv park. System 2 has no power running to the EQ tanks control panel. Determined problem to be a resulted of blown wiring inside the conduit. Customer confirmed that they reached out to an electrician and will run new power lines to control panel to fix problem.  System 3 is the bottom left system on the topography map listed in county permit records. This system was off upon arrival. It was determined that some of the local kids turned system off on accident. Upon supplying power to system, noted that filters were clogged. Drip filter was cleaned. Pump filter still needs to be pulled out and cleaned. Customer confirmed that they are going to use a sump pump to get water levels down so they can pull out and clean pump filter.  System 4 is bottom right on topography map. Nothing notably wrong with system 4 at the moment.	1.00	\$95.00	\$95.0

Parts & Mate	rial					
Product	Description	Quantity	Unit Price	Subtotal	Tax Amount	Total
			To	tal Services		\$95.00
			Total Par	ts/Materials		\$0.00
				Total		\$95.00

## Customer Signature

Signature Signed By

Type Customer

Date



Ph: (210)330-8402

Ph: (210)919-0170

## **Maintenance Contract**

THIS CONTRACT is made and entered into on July 8th 2025, by and between Valdes Drilling LLC (the "Service Company"), whose address is 11235 US HWY 181 S, San Antonio, Texas 78223 and Rebecca Creek Campgrounds ("Customer"), whose address is 3660 Tanglewood Trl. Spring Branch TX 78070. System #3 (113610)

WHEREAS Service Company is a company engaged in the business of servicing and maintaining Commercial and residential septic installations, and maintenance providing tanks. and is willing to provide such services to Customer as per the terms herein.

- 1. 12 inspections a year/service calls (at least one every month), for a total of 12 over the one yearnperiod including inspection, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting the control panel, air pumps, air filters, diffuser operation. Any alarm situation affecting the proper function of the Aerobic process will be addressed within a 48-hour time Frame. Repair work on non-warranty parts will include price for parts & labor. The prices will be quoted before the work is performed.
- 2. An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow and examination for odors.
- 3. If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified immediately in writing of the conditions and estimated date of correction.
- 5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEQ or any other authorized regulatory agency in your jurisdiction will be covered by this policy.

**IMPORTANT:** The Homeowners Manual must be strictly followed or warranties are subject to invalidation. Pumping of sludge build-up, repairs/ labor and materials, or any abuse of the system is not covered by this policy and will result in additional charges.

#### ACCESS BY CONTRACTOR

The Contractor Or anyone authorized by the Contractor may enter the property at reasonable times without prior notice for the purpose of the above described Services. The contractor may access the System components including the tanks by means of excavation for the purpose of evaluations if necessary.

#### 2. Trained Employees

Trained personnel directly employed and supervised by the Service Company will perform all services required by the terms of this Contract. The Service Company agrees that each of its employees will be properly qualified and will use reasonable care in the performance of his or her duties.

#### 3. Working Hours

- (a) The services required of the Service Company under this Contract, including emergency service, shall be performed during the regular working hours of its regular working days, consisting of Monday to Saturday, Anytime, except as provided in (b) immediately below.
- (b) If the Customer requests that the Service Company perform any of its services at times other than during its regular working hours, then for the services performed outside the regular working hours ("overtime hours"), the Customer shall be charged at \$200.00 per hour as adjusted periodically to compensate for changes in the cost of labor.

#### 4. Contract Price

- (a) The Customer shall pay the Service Company at the rate of \$950.00 (one time payment). for the one year of service to be performed under this Contract.
- (b) The amount specified in (a) above shall be adjusted annually to reflect any changes in the Service Company's cost of labor. 0 percentage of the contract price shall be increased or decreased on each anniversary of the commencement date of service under this Contract with the percentage of increase or decrease in the straight-time hourly cost (which means the straight-time hourly labor rate, including fringe benefits) for the month within which the anniversary of the commencement of service under this Contract falls as compared with the straight-time hourly cost for the month within which the commencement date of service under this Contract falls.
- (c) The amount specified in (a) above shall be adjusted annually to reflect any changes in the costs of the parts, equipment, and materials supplied by the Service Company under this Contract. 5 percentage of the contract price shall be increased or decreased on each anniversary of the commencement date of service under this Contract by the percentage of increase or decrease in the costs of the parts, equipment, and materials.(d)

#### 6. Term of Contract

The term of this Contract shall commence on the start date of signature date and shall continues in full force and effect until it is terminated. Either party, by giving 7 days' written notice to the other party, may terminate this Contract either at the completion. or at the end of any subsequent year. In any event, this Contract shall be in effect for a minimum of 1 year.

#### 7. Miscellaneous Provisions

- (a) Applicable Law: This Contract shall be construed under and in accordance with the laws of the Texas, and all obligations of the parties created under this Contract are performable in Comal County, Texas.
- (b) Parties Bound: This Contract shall be binding on and inure to the benefit of the parties to this Contract and their respective heirs, executors, administrators, legal representatives, successors and assigns as permitted by this Contract.
- (c) Legal Construction: In the event any one or more of the provisions contained in this Contract shall for any reason be held invalid, illegal, or unenforceable in any respect, that invalidity, illegality, or unenforceability shall not affect any other provision. This Contract shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in it.
- (d) Prior Contracts Superseded: This Contract constitutes the sole and only Contract of the parties and supersedes any prior understandings or written or oral Contracts between the parties respecting the subject matter of this Contract.
- (e) Amendments. This Contract may be amended by the parties only by a written Contract.
- (f) Attorneys' Fees: If any action at law or in equity is brought to enforce or interpret the provisions of this Contract, the prevailing party will be entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled.

#### 8. Signatures

This Contract shall be signed on behalf of Valdes Drilling LLC by Julio Valdes #MP0002736, its Owner, and on behalf of Rebecca Creek Campgrounds, Property Owner: Michelle.

SERVICE COMPANY
Valdes Drilling LLC
Ву:
Julio Valdes #MP0002736, its Owner
V

7-8-2025

**CUSTOMER** 

By: Michelle Werker

Rebecca Creek Campgrounds, its Property Owner

1-8-25