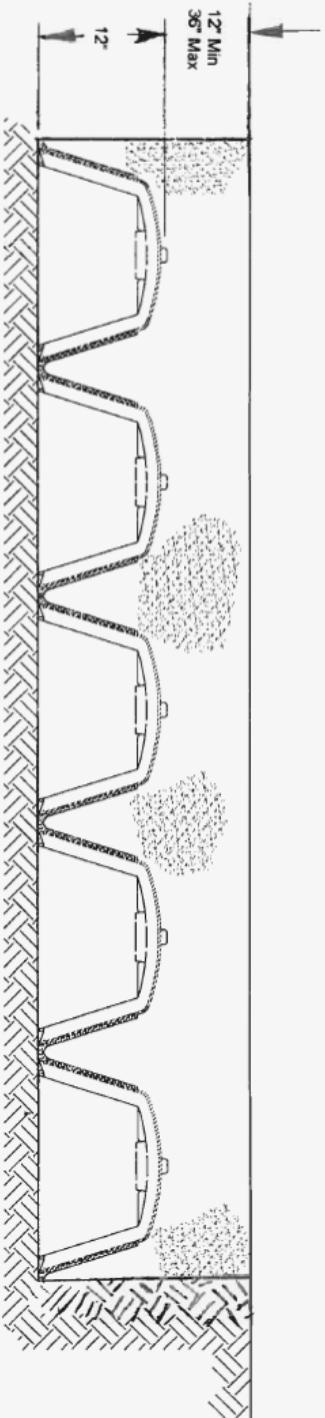


# BioDiffuser Leaching Chambers

A subsidiary of **ADS** (Advanced Drainage Systems, Inc.)

Manufactured by:  
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# BioDiffuser™ Septic Disposal System Bed System



- NOTES:**
1. EXCAVATE AND LEVEL INSTALLATION AREAS
  2. SCARIFY SURFACE TO REMOVE ANY SMEARING CAUSED DURING EXCAVATION
  3. INSTALL BioDiffuser LEACHING CHAMBERS IN ADJACENT ROWS TO COVER DESIRED AREA
  4. INSTALL UNIVERSAL END CAP AND SECURE IN PLACE WITH BACK FILL
  5. INSTALL 4" PIPE TO EACH ROW OF BioDiffuser USING KNOCKOUTS PROVIDED IN THE UNIVERSAL END CAPS
  6. ENDS OF ROWS MAY BE CONNECTED WITH PIPING TO IMPROVE DISTRIBUTION
  7. FILL PERIMETER AND INTERIOR SIDEWALL AREAS TO TOP OF CHAMBERS AND WALK INTO PLACE
  8. USING A LIGHT TRACKED MACHINE, COVER BioDiffuser LEACHING CHAMBERS TO A MINIMUM OF 12" AFTER CONSOLIDATION FOR H-10 APPLICATIONS. AVOID LARGE ROCKS OR DEBRIS IN COVER MATERIAL.

<b>ADVANCED DRAINAGE SYSTEMS, INC.</b> <b>ADS</b>		<b>REVISIONS</b>	
DRAWN BY G.H.S. 3-31-00	APPROVED BY P.X.C. 3-31-00	DRAWING # STD-905	BY ATM
			DATE 02.28.02



**WORKSHEET FOR ADS BIODIFFUSER CHAMBER ABSORPTION SYSTEM**

	<u>Unit Count</u>		<u>Quantity</u>		<u>Total</u>
Water Closets	2 ea	x	_____	=	_____
Bathtubs	2 ea	x	_____	=	_____
Showers	2 ea	x	_____	=	_____
Double Lavs	2 ea	x	_____	=	_____
Single Lavs	1 ea	x	_____	=	_____
Kitchen Sink	2 ea	x	_____	=	_____
Wet Bar	1 ea	x	_____	=	_____
Clothes Washer	2 ea	x	_____	=	_____
Laundry Tub	1 ea	x	_____	=	_____
Veggie Sink	1 ea	x	_____	=	_____
Bidet	2 ea	x	_____	=	_____
<b>Septic Tank Cap.</b>	_____			<b>=</b>	_____
			<b>Total Fixture Units</b>		_____

**LEACH FIELD AREA REQUIREMENTS (IN SQUARE FEET)**

Max Fixture Units Served	Min Septic Tank Capacity	Percolation Rate (min/inch)								
		3	4	5	10	15	30	45	60	
0-20	1000	A	350	400	450	635	775	1100	1345	1550
		B	245	280	315	445	543	770	942	1085
		C	13	15	17	24	29	41	50	58
21-25	1200	A	420	480	540	760	935	1315	1610	1860
		B	294	336	378	532	655	921	1127	1302
		C	16	18	20	28	35	49	60	69
26-35	1500	A	520	600	710	950	1165	1645	2015	2325
		B	364	420	497	665	816	1152	1411	1628
		C	19	22	27	35	43	61	75	87
36-45	2000	A	700	800	900	1272	1550	2200	2690	3100
		B	490	560	630	890	1085	1540	1883	2170
		C	26	30	34	47	58	82	100	116
46-55	2250	A	788	900	1013	1429	1744	2475	3027	3488
		B	552	630	709	1000	1221	1733	2119	2442
		C	29	34	38	53	65	92	113	130
56-60	2500	A	875	1000	1125	1588	1940	2750	3363	3875
		B	613	700	788	1112	1358	1925	2354	2713
		C	33	37	42	59	72	103	126	145
61-70	2750	A	963	1100	1238	1747	2132	3025	3699	4263
		B	674	770	867	1223	1492	2118	2589	2984
		C	36	41	46	65	80	113	138	159
71-80	3000	A	1050	1200	1350	1905	2325	3300	4035	4650
		B	735	840	945	1334	1628	2310	2825	3255
		C	39	47	53	74	91	129	157	181
81-90	3250	A	1138	1300	1463	2064	2519	3575	4371	
		B	797	910	1024	1445	1763	2503	3060	
		C	42	49	55	77	94	133	163	
91-100	3500	A	1225	1400	1575	2223	2713	3850	4708	
		B	858	980	1103	1556	1899	2695	3296	
		C	46	52	59	83	101	144	176	

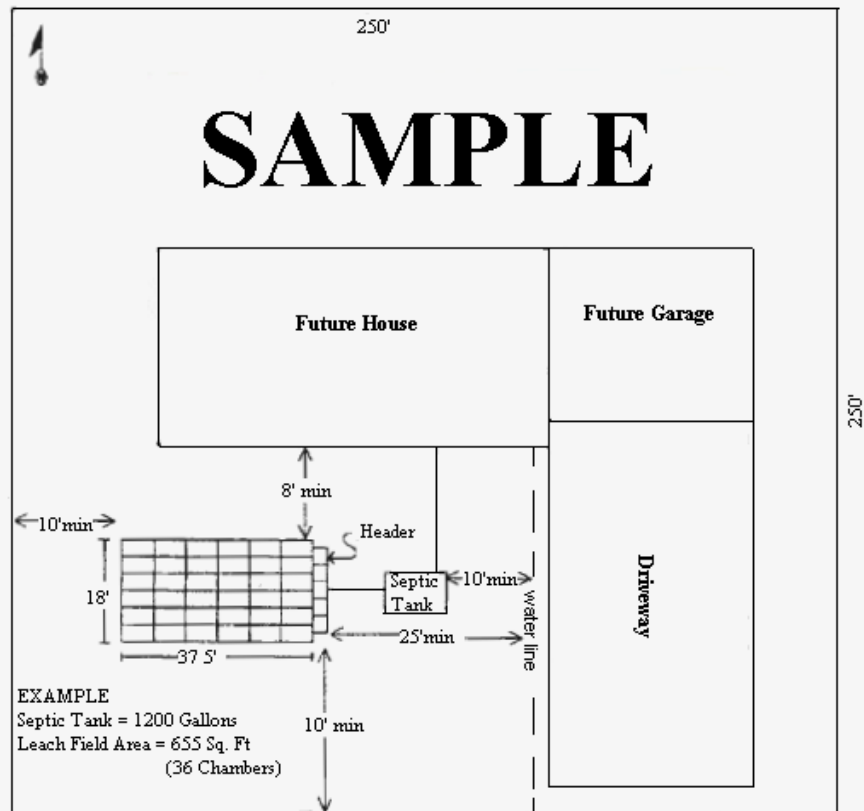
A = Pipe and Gravel System

B = Plastic Leaching Chambers

C = Minimum Number of ADS BioDiffuser™ 1100BD Chambers (18.75 Sq. Ft Ea)  
 (The number of ADS chambers must be rounded up to allow for equal number of chambers in each row)



## ADS BioDiffuser™ Chamber Septic Disposal System



- Must be drawn to scale (ENGINEERING OR ARCHITECTURAL ONLY)
- Shallow BioDiffuser™ Chamber System (4' deep or less from ground surface to bottom of system)
- Each BioDiffuser™ chamber is 3' wide x 6.25' long or 18.75 sq. ft /unit
- Must show equal number of chambers in each row
- A distribution box is required with any septic system greater than 2000 gallons or a system utilizing an odd number of leach lines