FAX COVER SHEET

BRUCE'S AUTOMOTIVE INC.
406 South Main Street
P.O. Box 939
Bellevue, Idaho 83313
U.S.A.
208-788-2482
208-788-6225

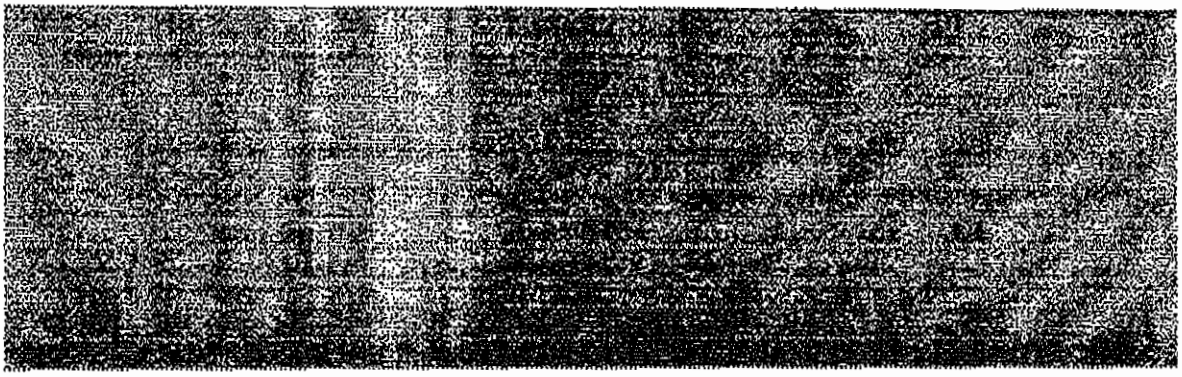
SEND TO	
Company name: Dept. Water	From: Sherry Pyle
Attention: Tim Luke	Date: 1-29-04
Office location:	Office location:
Fax number:	Phone number:

☐ Urgent ☐ Reply ASAP ☐ Please comment ☐ Please review ☐ For your information

Total pages, including cover: 3

COMMENTS

Plans for measuring device!



Bruce's Automotive Inc.....

406 South Main St. Bellevue, Id.83313

Phone: 208-7882482

Fax: 208-788-6225

Idaho Dept. of Water Resources
P.O. Box 83720
Boise, Id. 83720-0098
Attn: Tim Luke

Dear Mr. Luke,

Please find enclosed plans for a measuring device for our water rights usage of Water Dist. 37-O Muldoon Creek and Tributaries. Hopefully this is satisfactory to you per our phone conversations during this month. If there is a problem or any concerns please contact me at the phone number above. Thank you for your time regarding this matter.

Respectfully,

Bruce Price

01/29/2004 16:32 FAX 208 788 6225 Bruce's Automotive Inc. 003

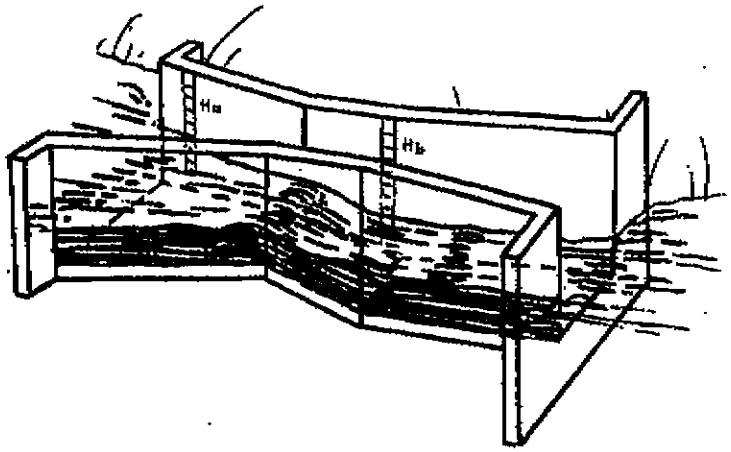


Fig. 4. Parshall measuring flume.

3. In most cases the flume is set with the floor (or crest) elevated above the ditch bottom to prevent excessive submergence. The amount to raise the flume corresponds to the head loss through the structure at about 70% submergence. The flume is set so the water elevation at H_A is higher than the normal tailwater downstream by an amount equal to the head loss. The head loss at 70-submergence is the difference between H_A and 0.7 times H_A or 0.3 H_A.

4. The floor of the converging section must be level both lengthwise and crosswise.

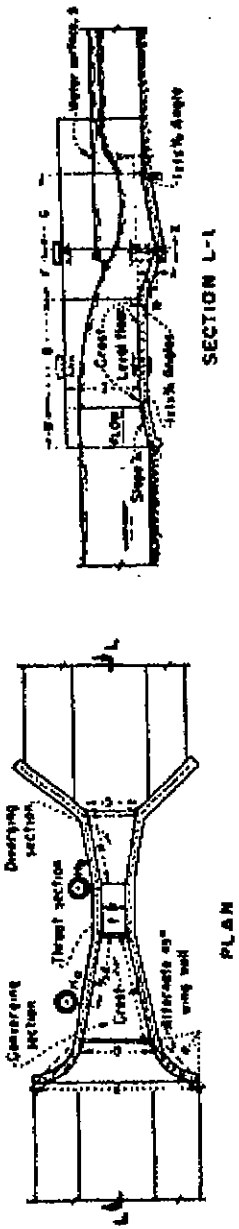
How to Measure

For free flow, one measurement of water depth at H_A is all that is required. Discharge tables are shown in Table 7.

A staff gauge attached to the inside wall at H_A will function for a depth measurement. The water surface here is often turbulent and a reading will be more accurate if a stilling well is installed with the zero of the gauge level with the crest of the flume.

The Parshall flume can be operated with a high degree of submergence — up to 70%. This means it will be accurate as long as the ratio H_B/H_A is less than 0.70. Below this figure only H_A need be measured.

When submergence or H_B/H_A is greater than 0.70 a correction must be made. To do this the discharge given by the water depth H_A is multiplied by the correction factor Q/Qo for the degree of submergence and corresponding flume size shown in Fig. 6. This correction can reduce flow by a factor of up to 45%.



W	A	2/3A	B	C	D	E	F	G	H	K	M	N	P	R	X	Y	Free Flow Capacity Minimum	Free Flow Capacity Maximum
Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Ft-In	Sec-Ft	Sec-Ft
0-3	1-6 3/8	1-3/4	1-5	0-7	0-10 3/16	1-5	0-5	1-0	1-6 1/2	0-11	0-7	0-2 1/2	0-3	0-1 1/2	0-1	0-1 1/2	0.03	1.13
0-6	2-7/16	1-4 5/16	2-0	1-0 1/2	1-3 5/8	2-0	1-0	2-0		1-0	0-10	0-4 1/2	2-11 1/2	1-4	0-2	0-3	.05	3.9
0-9	2-10 5/8	1-11 1/8	2-10	1-1	1-10 5/8	2-6	1-6	3-0		1-6	0-11	0-6	4-2 1/2	1-7	0-3	0-4	.08	8.9
1-0	4-6	3-0	4-4 7/8	2-0	2-9 1/4	3-0	2-0	4-0		2-0	1-3	0-8	4-10 3/4	1-9	0-4	0-5	.11	16.1
1-6	6-10 7/8	4-7 7/8	4-7 7/8	2-6	3-4 3/8	3-6	2-6	5-0		2-6	1-7	0-10	5-6	1-11	0-5	0-6	.15	24.6
2-0	9-4	6-2 1/2	6-2 1/2	3-0	4-11 1/2	4-0	3-0	6-0		3-0	2-0	1-0	6-1	2-1	0-6	0-7	.22	33.1
2-6	11-10 7/8	7-11 3/8	7-11 3/8	3-6	5-11 7/8	4-6	3-6	7-0		3-6	2-3	1-1	7-3 1/2	2-3	0-7	0-8	.30	50.4
3-0	14-4 7/8	9-7 1/4	9-7 1/4	4-0	7-0 3/8	5-0	4-0	8-0		4-0	2-6	1-3	8-10 3/4	2-5	0-8	0-9	.43	67.9
4-0	19-10 5/8	13-3 3/4	13-3 3/4	5-0	9-5 1/2	6-0	5-0	10-0		5-0	3-0	1-6	10-11 1/4	2-11	0-10	1-0	.58	85.8
5-0	25-4 3/8	16-11 5/8	16-11 5/8	6-0	11-11 3/4	7-0	6-0	12-0		6-0	3-6	1-9	13-7 1/2	3-5	0-11	1-1	.72	102.5
6-0	30-10 3/8	20-7 1/2	20-7 1/2	7-0	14-5 7/8	8-0	7-0	14-0		7-0	4-0	1-11	16-3 1/4	3-11	1-0	1-3	.86	121.4
7-0	36-9	24-6	24-6	8-0	17-0	9-0	8-0	16-0		8-0	4-6	2-2	19-0	4-5	1-2	1-4	1.00	139.5
8-0	42-7 3/8	28-4 7/8	28-4 7/8	9-0	19-6 1/8	10-0	9-0	18-0		9-0	5-0	2-4	21-8 3/4	5-0	1-4	1-6	1.15	158.0
9-0	48-6	32-4	32-4	10-0	22-0	11-0	10-0	20-0		10-0	5-6	2-7	24-5	5-6	1-5	1-8	1.30	176.5
10-0	54-4 7/8	36-3 1/4	36-3 1/4	11-0	24-7	12-0	11-0	22-0		11-0	6-0	2-9	27-3	6-0	1-6	1-9	1.45	195.0
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12-0	66-2	44-1 1/2	44-1 1/2	13-0	29-6	14-0	13-0	26-0		13-0	7-0	3-3	32-8 1/2	7-0	1-8	2-0	1.75	232.0
13-0	72-0 7/8	48-0 5/8	48-0 5/8	14-0	32-0 1/8	15-0	14-0	28-0		14-0	7-6	3-5	35-4	7-6	1-9	2-1	1.90	250.5
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15-0	83-9 7/8	55-11 7/8	55-11 7/8	16-0	37-0	17-0	16-0	32-0		16-0	8-6	3-11	40-2	8-6	1-11	2-3	2.20	287.5
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17-0	95-6 3/8	63-9 5/8	63-9 5/8	18-0	41-11 5/8	19-0	18-0	36-0		18-0	9-6	4-5	45-1 1/2	9-6	2-1	2-5	2.50	324.5
18-0	101-5	67-8 1/2	67-8 1/2	19-0	44-6 1/2	20-0	19-0	38-0		19-0	10-0	4-8	47-8	10-0	2-2	2-6	2.65	343.0
19-0	107-3 3/8	71-7 3/8	71-7 3/8	20-0	47-1 3/8	21-0	20-0	40-0		20-0	10-6	4-11	50-2 1/2	10-6	2-3	2-7	2.80	361.5
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74-0	431-8 1/2	287-9	287-9	75-0	193-2 1/2	76-0	75-0	150-0		75-0	38-0	18-5	190-7	38-0	6-10	7-2	11.05	1379.0
75-0	437-7 3/8	291-7 3/4	291-7 3/4	76-0	195-11 3/8	77-0	76-0	152-0		76-0	38-6	18-8	193-1	38-6	6-11	7-3	11.20	1397.5
76-0	443-6 1/4	295-6 1/2	295-6 1/2	77-0	198-8 1/4	78-0	77-0	154-0		77-0	39-0	18-11	195-6	39-0	7-0	7-4	11.35	1416.0
77-0	449-5 1/8	299-5 1/4	299-5 1/4	78-0	201-5 1/8	79-0	78-0	156-0		78-0	39-6	19-2	198-0 1/2	39-6	7-1	7-5	11.50	1434.5
78-0	455-4	303-4	303-4	79-0	204-2	80-0	79-0	158-0		79-0	40-0	19-5	200-7	40-0	7-2	7-6	11.65	1453.0
79-0	461-2 7/8	307-3 1/4	307-3 1/4	80-0	206-10 7/8	81-0	80-0	160-0		80-0	40-6	19-8	203-1	40-6	7-3	7-7	11.80	1471.5
80-0	467-1 3/4	311-2 1/2	311-2 1/2	81-0	209-7 3/4	82-0	81-0	162-0		81-0	41-0	19-11	205-6	41-0	7-4	7-8	11.95	1490.0
81-0	473-0 5/8	315-1 3/4	315-1 3/4	82-0	212-4 5/8	83-0	82-0	164-0		82-0	41-6	20-2	208-0 1/2	41-6	7-5	7-9	12.10	1508.5
82-0	478-11 1/2	319-1	319-1	83-0	215-1 1/2	84-0	83-0	166-0		83-0	42-0	20-5	210-7	42-0	7-6	7-10	12.25	1527.0
83-0	484-10 3/8	322-10 1/4	322-10 1/4	84-0	217-10 3/8	85-0	84-0	168-0		84-0	42-6	20-8	213-1	42-6	7-7	7-11	12.40	1545.5
84-0	490-9 1/4	326-9	326-9	85-0	220-7 1/4	86-0	85-0	170-0		85-0	43-0	20-11	215-6	43-0	7-8	8-0	12.55	1564.0
85-0	496-8 1/8	330-7 3/4	330-7 3/4	86-0	223-4 1/8	87-0	86-0	172-0		86-0	43-6	21-2	218-0 1/2	43-6	7-9	8-1	12.70	1582.5
86-0	502-7	334-6 1/2	334-6 1/2	87-0	226-1	88-0	87-0	174-0		87-0	44-0	21-5	220-7	44-0	7-10	8-2	12.85	1601.0
87-0	508-5 7/8	338-5 1/4	338-5 1/4	88-0	228-9 7/8	89-0	88-0	176-0		88-0	44-6	21-8	223-1	44-6	7-11	8-3	13.00	1619.5
88-0	514-4 3/4	342-4	342-4	89-0	231-6 3/4	90-0	89-0	178-0		89-0	45-0	21-11	225-6	45-0	8-0	8-4	13.15	1638.0
89-0	520-3 5/8	346-2 3/4	346-2 3/4	90-0	234-3 5/8	91-0	90-0	180-0		90-0	45-6	22-2	228-0 1/2	45-6	8-1	8-5	13.30	1656.5
90-0	526-2 1/2	350-1 1/2	350-1 1/2	91-0	237-0 1/2	92-0	91-0	182-0		91-0	46-0	22-5	230-7	46-0	8-2	8-6	13.45	1675.0
91-0	532-1 3/8	354-0 1/4	354-0 1/4	92-0	239-9 3/8	93-0	92-0	184-0		92-0	46-6	22-8	233-1 1/2	46-6	8-3	8-7	13.60	1693.5
92-0	538-0 1/4	358-0	358-0	93-0	242-6 1/4	94-0	93-0	186-0		93-0	47-0	22-11	235-8	47-0	8-4	8-8	13.75	1712.0
93-0	543-11 1/8	361-11 3/4	361-11 3/4	94-0	245-3 1/8	95-0	94-0	188-0		94-0	47-6	23-2	238-2 1/2	47-6	8-5	8-9	13.90	1730.5
94-0	549-10	365-10 1/2	365-10 1/2	95-0	248-0	96-0	95-0	190-0		95-0	48-0	23-5	240-9	48-0	8-6	8-10	14.05	1749.0
95-0	555-8 7/8	369-9 1/4	369-9 1/4	96-0	250-8 7/8	97-0	96-0	192-0		96-0	48-6	23-8	243-3	48-6	8-7	8-11	14.20	1767.5
96-0	561-7 3/4	373-8	373-8	97-0	253-5 3/4	98-0	97-0	194-0		97-0	49-0	23-11	245-10	49-0	8-8	9-0	14.35	1786.0
97-0	567-6 5/8	377-6 3/4	377-6 3/4	98-0	256-2 5/8	99-0	98-0	196-0		98-0	49-6	24-2	248-4 1/2	49-6	8-9	9-1	14.50	1804.5
98-0	573-5 1/2	381-5 1/2	381-5 1/2	99-0	258-11 1/2	100-0	99-0	198-0		99-0	50-0	24-5	250-11	50-0	8-10	9-2	14.65	1823.0
99-0	579-4 3/8	385-4 1/4	385-4 1/4	100-0	261-8 3/8	101-0	100-0	200-0		100-0	50-6	24-8	253-6	50-6	8-11	9-3	14.80	1841.5
100-0	585-3 1/4	389-3	389-3	101-0	264-5 1/4	102-0	101-0	202-0		101-0	51-0	24-11	255-11 1/2	51-0	9-0	9-4	14.95	1860.0

Fig. 5. Dimensions and capacities for Parshall measuring flume.