



Job No. 9811260 U-HAUL OF FALLON  
 Prepared by: DMK Checked by: T  
 Date: 09/10/99 Revised: 11/19/99

Upper Str. Type	Number	Len. In	D In	Total C.F.S.	Pipe Const. C.F.S.	V Slope	V in 100 ft	D x Vh	Hyd. Grade	Flow Line Elevation	Top of Structure Elevation	Hydraulic Frict. Loss	Curve Loss	Junc. Loss	Entr. Loss	Turn Angle	Capacity C.F.S.	Normal Depth	
T	13	12	35	0.23	0.23	1.00%	0.29	0.00	0.00	588.07	587.72	594.70	593.00	5.98	0.00	90	0.00	3.56	0.17
AI	12	11	106	0.23	0.46	1.00%	0.59	0.01	0.00	587.52	586.46	593.40	593.40	4.28	0.00	30	0.00	3.56	0.24
MH	11	10	37	2.19	0.46	1.00%	0.59	0.01	0.00	586.26	585.89	593.40	590.83	4.77	0.00	30	0.00	3.56	0.19
AI	10	8	67	2.19	2.65	1.00%	3.37	0.18	0.47	585.69	585.02	590.83	594.20	2.20	0.00	90	0.12	3.56	0.74
T	20	9	107	30.26	30.26	3.56%	4.28	0.28	8.61	589.38	587.71	597.80	597.70	6.87	0.20	90	0.20	83.33	0.36
MH	9	8	71	30.26	32.91	3.56%	4.28	0.28	8.61	587.51	585.02	597.70	594.20	6.99	0.00	30	0.00	124.91	0.24
MH	8	7	137	32.91	4.66	3.01%	4.66	0.34	11.08	584.82	578.30	594.20	588.40	6.18	0.06	115	0.65	47.16	1.08
AI	7	6	140	1.36	34.27	0.50%	4.85	0.35	12.51	578.70	578.00	588.40		6.50		37	0.00	47.16	0.79
T	2	1	28	9.78	9.78	1.00%	4.07	0.26	2.51	576.03	575.75	579.72		2.11		577.61	577.50	0.11	15.85
Y	5	4	40	3.43	3.43	3.80%	4.37	0.30	1.02	579.11	577.59	587.10	581.20	6.98	0.30	10	0.03	6.95	0.49
MH	4	3	36	3.43	3.43	1.00%	4.37	0.30	1.02	577.39	576.83	581.20		1.43		579.72	579.20	0.52	3.56

NOTE: STARTING HGL AT FE 3 IS THE 15YR 80MIN. HIGHWATER ELEVATION IN THE BASIN WITH THE LOW FLOW SLOTS BLOCKED.

WEIR FORMULA =  $Q = CLH^{3/2}$

SOLVE FOR H ⇒  $H = \left(\frac{Q}{C \cdot L}\right)^{2/3}$  C=3.3, L=11.67 Q=9.78cfs

$H = \left(\frac{9.78}{(3.3)(11.67)}\right)^{2/3} = 0.40'$

SILL ELEV: 578.80 PONDING ELEV: 578.80+0.40=579.20

5055 NEW BAUMGARTNER ROAD  
 ST. LOUIS, MISSOURI 63129

PREPARED BY: **STERLING**  
 ENGINEERS, SURVEYORS AND PLANNERS  
 (314) 487-0440, FAX 487-8944

REVISIONS:

NO.	DATE	INITIAL	NOTES
1	11/19/99	RL	FIRST SUBMITTAL TO ENCL.
2	1/27/00	RL	REV PER CITY & MUDOS COMMENTS
3			
4			
5			
6			
7			
8			

PROFESSIONAL SEAL:

ARCHITECT LOGO:

U-HAUL INTERNATIONAL  
 CONSTRUCTION & RENOVATION  
 2727 NORTH CENTRAL AVENUE  
 PHOENIX, ARIZONA 85004  
 PH: 602/783-6502  
 FAX: 602/777-1026

SITE ADDRESS:  
 U-HAUL OF FALLON  
 2000 HIGHWAY "K"  
 CITY OF FALLON

SHEET CONTENTS:  
 SANITARY AND STORM  
 SEWER PROFILES

3591

DRAWN BY: RL  
 CHK'D BY: MB  
 DATE: 8/22/99

© 1997 U-HAUL INTERNATIONAL  
 1260REVPF