



Appendix B:

Culvert Inventory

Milepost	Diameter (in)	Arch Diameter (in)	Dimensions (in)	Length (ft)	Type	Condition	Environmental	Comments
0.11		96x69		68	CMPA	Good	No	
0.31	30			100	RCP	Poor	Yes	
1.70	24			58	RCP	Good	No	
1.94	24			52	RCP	Good	No	
2.15	24			68	RCP	Good	No	
2.53	24			60	RCP	Good	No	
2.96	24			68	RCP	Good	No	
3.11		60x48		110	CMPA	Fair	Yes	
3.13	24			102	CMP	Good	No	
3.16			72x48	56	Concrete Stock Pass	Fair	No	
3.23	24			64	RCP	Poor	Possible	
3.32		50x26		68	CMPA	Fair	No	
3.34	36			90	RCP	Fair	Yes	
3.52	24			82	RCP	Poor	Yes	Roots growing in culvert
3.84	24			60	RCP	Fair	No	
3.94	24			60	RCP	Fair	No	
4.07	24			70	RCP	Good	No	
4.24			72x48	62	Concrete Stock Pass	Good	No	
4.38	24			54	RCP	Fair	No	
4.52	24			56	RCP	Good	No	
4.72	24			70	RCP	Good	No	
5.15	24			62	RCP	Fair	No	
5.41	24			58	CMP	Poor	No	Up stream crushed
5.69	24			56	RCP	Good	No	
5.87	24			62	RCP	Fair	No	
5.98			72x48	50	Concrete Stock Pass	Fair	Yes	Partially Filled
6.29	18			50	CMP	Poor	No	Plugged
6.59	24			76	RCP	Good	No	
6.79	24			56	RCP	Good	No	
7.07	24			60	RCP	Good	No	
7.62	84			60	CMP	Good	Yes	
7.91	48			60	RCP	Fair	Yes	
8.07	24			54	RCP	Good	Yes	
8.49	18			126	CMP	Poor	Yes	Abandoned
8.51	60			58	CMP	Good	Yes	
9.09	36			64	RCP	Fair	Yes	
9.69	24			56	RCP	Poor	Yes	Fully submerged
10.27	24			58	RCP	Fair	Yes	
10.39		60x36		70	CMPA	Poor	Yes	
11.53		35x24		56	CMPA	Good	No	
11.72	24			70	RCP	Good	Yes	
11.74	48			84	CMP	Good	Yes	
12.18	24			60	RCP	Poor	Yes	Downstream segment detached
12.84	24			58	RCP	Fair	Yes	
13.99	48			50	RCP	Poor	Yes	Upstream and downstream side first segment unattached
14.03	36			84	RCP	Poor	Yes	Upstream side 2 segments unattached
14.11					CMP	Good	No	Siphon crosses roadway
14.15					CMP	Good	No	Siphon crosses ROW
14.18					CMP	Good	No	Siphon crosses ROW
14.25	18			48	CMP	Good	No	
14.26	18			56	CMP	Good	Possible	
14.28	24			52	CMP	Fair	Yes	Culvert half full
14.64	24			46	CMP	Good	Possible	

Milepost	Diameter (in)	Arch Diameter (in)	Dimensions (in)	Length (ft)	Type	Condition	Environmental	Comments
15.36	24			40	CMP	Good	Yes	
15.89	24			46	CMP	Good	Yes	
16.07	24			72	CMP	Good	No	
16.33	18			42	CMP	Good	Yes	
16.39	18			48	CMP	Good	No	
16.62	18			42	CMP	Good	Yes	
16.74			144x96	32	RCB	Good	No	
16.91	18			52	CMP	Good	No	
17.14	18			66	CMP	Good	No	
17.43	30				CMP			Abandoned
17.49			144x72	40	RCB	Good	Yes	
17.71	18			38	CMP	Good	No	
17.85	18			46	CMP	Good	No	
18.10			96x36	68	RCB	Good	Yes	
18.75	18			38	CMP	Good	No	
19.26	18			40	CMP	Good	No	
19.44	18			46	CMP	Good	No	



Appendix C:

Horizontal Curves

Curve PS (MP)	Radius of Curve (ft)	Length of Curve (ft)	Deflection Angle	Design Speed Met (mph)	Meets Standards?
0.44	1432.3	915	36°36'00"	60	Yes
0.70	1910	910	27°18'00"	70	Yes
1.52	1432.5	560	38°24'00"	60	Yes
2.16	2865	495	09°57'00"	80	Yes
2.41	2865	325	10°05'00"	80	Yes
3.02	5730	741.7	07°25'00"	80	Yes
3.22	955	1101.7	65°22'00"	50	No
3.81	955	1063.5	63°36'00"	50	No
4.04	1510	398.7	11°54'00"	65	Yes
4.56	5730	776.7	7°40'00"	80	Yes
5.58	5730	878.3	8°47'00"	80	Yes
6.04	955	407.5	24°27'00"	50	No
6.09	955	523.6	31°23'00"	50	No
6.22	2865	347.5	6°57'00"	80	Yes
6.42	1140	180	9°06'00"	55	No
6.68	955	397.2	23°50'00"	50	No
6.76	2292	604.7	15°07'00"	75	Yes
7.26	955	325	31°30'00"	50	No
7.45	716.3	509.5	40°26'00"	45	No
7.92	5750	670	6°42'00"	80	Yes
8.16	2865	685	13°22'00"	80	Yes
10.47	955	756.5	45°25'00"	50	No
10.84	5730	881.7	8°49'00"	80	Yes
11.23	2805	1107.5	22°09'00"	80	Yes
11.56	432	526.7	57°32'00"	35	No
11.98	995	941.9	36°31'00"	55	No
13.09	955	533.6	32°08'00"	50	No
13.79	1148	487.7	21°25'00"	55	No
14.03	955	955.6	57°20'00"	50	No

Note: Values from Right-of-way plans dated August 18, 1954. Alignment may have changed since initial construction.



Appendix D:

Traffic Data

Volume Summary Report: Shields Road Be

Station ID : Shields Road Be

Info Line 1 : RP 0.5

Info Line 2 :

GPS Lat/Lon :

DB File : Shields Road Be.DB

Last Connected Device Type : RoadRunner3

Version Number : 1.34

Serial Number : 19239

Number of Lanes : 2

Posted Speed Limit : 0.0 mph

Lane Configuration

#	Dir.	Information	Volume Mode	Volume Sensors	Divide /2	Comment
1.			Normal	Veh.	No	
2.	Opp -		Normal	Veh.	No	

Total Count:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	2	0	1	1	1	3	17	33	53	49	96	99	88	85	90	73	88	76	65	64	28	24	5	3	1044
Lane #2	5	4	4	0	2	1	20	28	50	67	74	59	74	84	88	68	71	61	85	40	39	33	22	25	1004
TOTAL	7	4	5	1	3	4	37	61	103	116	170	158	162	169	178	141	159	137	150	104	67	57	27	28	2048

Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Lane #1	0%	0%	0%	0%	0%	0%	2%	3%	5%	5%	9%	9%	8%	8%	9%	7%	8%	7%	6%	6%	3%	2%	0%	0%
Lane #2	0%	0%	0%	0%	0%	0%	2%	3%	5%	7%	7%	6%	7%	8%	9%	7%	7%	6%	8%	4%	4%	3%	2%	2%
TOTAL	0%	0%	0%	0%	0%	0%	2%	3%	5%	6%	8%	8%	8%	8%	9%	7%	8%	7%	7%	5%	3%	3%	1%	1%

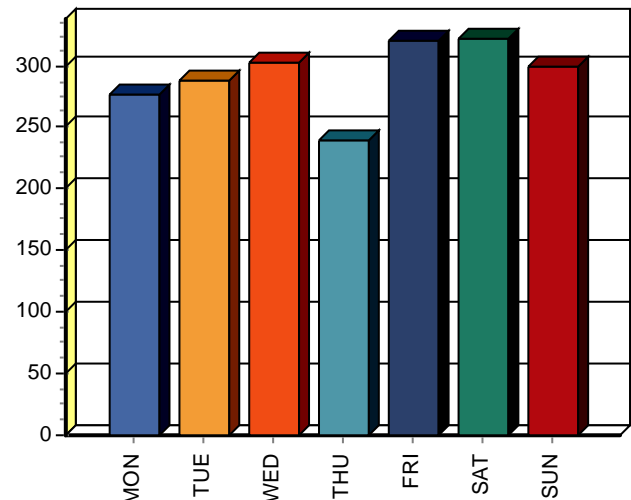
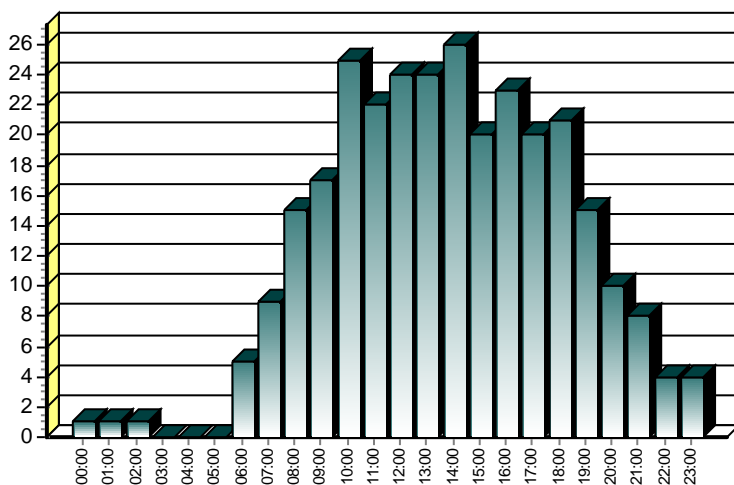
ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	0	0	0	0	0	0	2	5	8	7	14	14	13	12	13	10	13	11	9	9	4	3	1	0	148
Lane #2	1	1	1	0	0	0	3	4	7	10	11	8	11	12	13	10	10	9	12	6	6	5	3	4	147
TOTAL	1	1	1	0	0	0	5	9	15	17	25	22	24	24	26	20	23	20	21	15	10	8	4	4	295

ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	299	276	288	303	240	320	322	Weekday (Mon-Fri) :	1427	70%
# Days :	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ADT :	285	
ADT :	299	276	288	303	240	320	322	Weekend (Sat-Sun) :	621	30%
Percent :	15%	13%	14%	15%	12%	16%	16%	ADT :	311	

ADT Volume vs. Time (all lanes combined)

ADT By Day of Week (all lanes)



Volume Summary Report: Shields Road Ia

Station ID : Shields Road Ia

Info Line 1 : Land slide area
 Info Line 2 : 5 foot spacing

GPS Lat/Lon :

DB File : Shields Road Ia.DB

Last Connected Device Type : RoadRunner3

Version Number : 1.34

Serial Number : 19238

Number of Lanes : 2

Posted Speed Limit : 0.0 mph

Lane Configuration

#	Dir.	Information	Volume Mode	Volume Sensors	Divide /2	Comment
1.			Normal	Veh.	No	
2.	Opp -		Normal	Veh.	No	

Total Count:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	1	1	0	1	1	2	23	18	25	34	69	68	65	52	60	50	58	48	55	39	23	12	1	2	708
Lane #2	3	3	2	0	6	2	18	20	24	60	61	40	61	56	59	44	46	40	40	33	25	24	16	11	694
TOTAL	4	4	2	1	7	4	41	38	49	94	130	108	126	108	119	94	104	88	95	72	48	36	17	13	1402

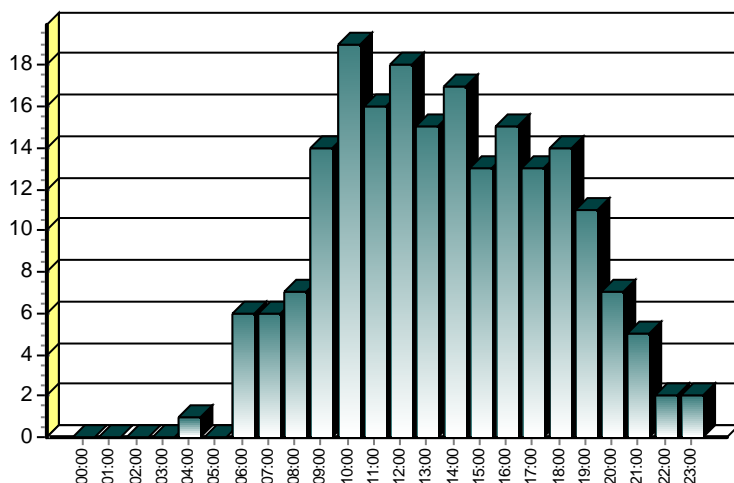
Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Lane #1	0%	0%	0%	0%	0%	0%	3%	3%	4%	5%	10%	10%	9%	7%	8%	7%	8%	7%	8%	6%	3%	2%	0%	0%
Lane #2	0%	0%	0%	0%	1%	0%	3%	3%	3%	9%	9%	6%	9%	8%	9%	6%	7%	6%	6%	5%	4%	3%	2%	2%
TOTAL	0%	0%	0%	0%	0%	0%	3%	3%	3%	7%	9%	8%	9%	8%	8%	7%	7%	6%	7%	5%	3%	3%	1%	1%

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	0	0	0	0	0	0	3	3	4	5	10	10	9	7	9	7	8	7	8	6	3	2	0	0	101
Lane #2	0	0	0	0	1	0	3	3	3	9	9	6	9	8	8	6	7	6	6	5	4	3	2	2	100
TOTAL	0	0	0	0	1	0	6	6	7	14	19	16	18	15	17	13	15	13	14	11	7	5	2	2	201

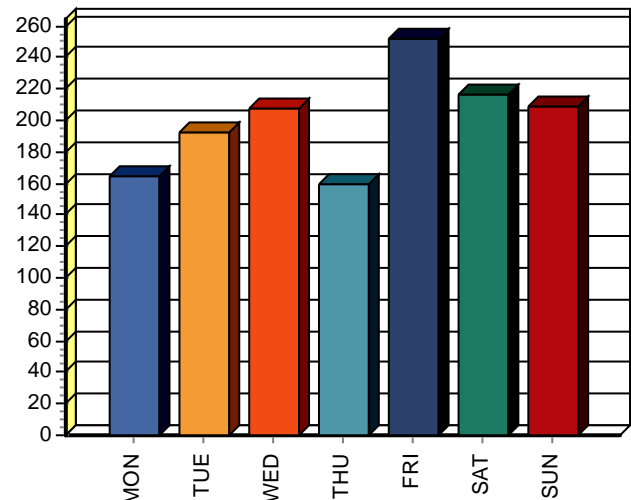
ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	209	164	193	208	159	252	217	Weekday (Mon-Fri) :	976	70%
# Days :	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ADT :	195	
ADT :	209	164	193	208	159	252	217	Weekend (Sat-Sun) :	426	30%
Percent :	15%	12%	14%	15%	11%	18%	15%	ADT :	213	

ADT Volume vs. Time (all lanes combined)



ADT By Day of Week (all lanes)



Volume Summary Report: Shields Road

Station ID : Shields Road
 Info Line 1 : Straight Sectio
 Info Line 2 :
 GPS Lat/Lon :
 DB File : Shields Road.DB

Last Connected Device Type : RoadRunner3
 Version Number : 1.34
 Serial Number : 19237
 Number of Lanes : 2
 Posted Speed Limit : 0.0 mph

Lane Configuration

#	Dir.	Information	Volume Mode	Volume Sensors	Divide /2	Comment
1.			Directional	Axle	Yes	
2.			Directional	Axle	Yes	

Total Count:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	1	2	0	0	0	1	8	14	15	33	59	55	61	49	44	52	48	38	51	28	20	18	2	2	601
Lane #2	0	0	0	0	0	3	5	8	23	44	49	46	53	54	45	36	39	34	30	30	21	19	6	3	548
TOTAL	1	2	0	0	0	4	13	22	38	77	108	101	114	103	89	88	87	72	81	58	41	37	8	5	1149

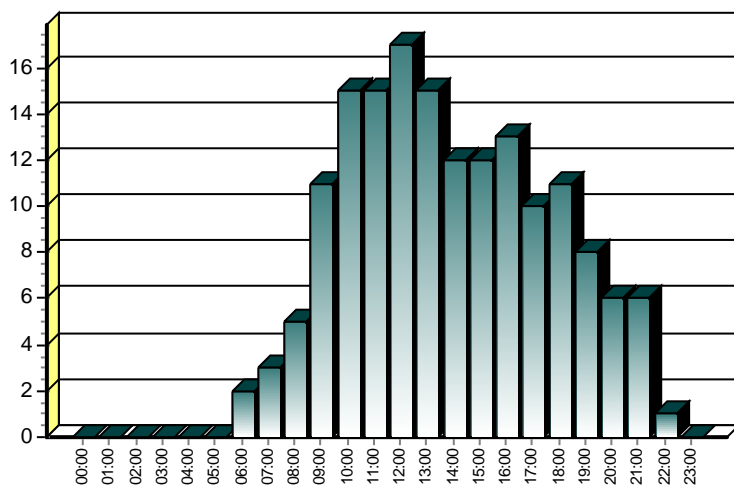
Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Lane #1	0%	0%	0%	0%	0%	0%	1%	2%	2%	5%	10%	9%	10%	8%	7%	9%	8%	6%	8%	5%	3%	3%	0%	0%
Lane #2	0%	0%	0%	0%	0%	1%	1%	1%	4%	8%	9%	8%	10%	10%	8%	7%	7%	6%	5%	5%	4%	3%	1%	1%
TOTAL	0%	0%	0%	0%	0%	0%	1%	2%	3%	7%	9%	9%	10%	9%	8%	8%	6%	7%	5%	4%	3%	1%	0%	

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	0	0	0	0	0	0	1	2	2	5	8	8	9	7	6	7	7	5	7	4	3	3	0	0	84
Lane #2	0	0	0	0	0	0	1	1	3	6	7	7	8	8	6	5	6	5	4	4	3	3	1	0	78
TOTAL	0	0	0	0	0	0	2	3	5	11	15	15	17	15	12	12	13	10	11	8	6	6	1	0	162

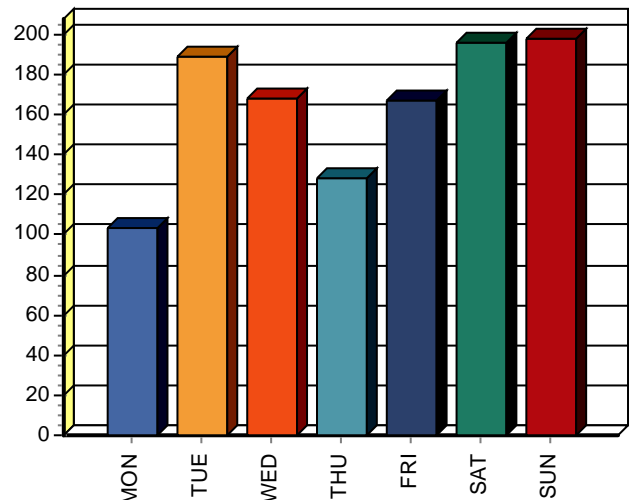
ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	198	103	189	168	128	167	196	Weekday (Mon-Fri) :	755	66%
# Days :	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ADT :	151	
ADT :	198	103	189	168	128	167	196	Weekend (Sat-Sun) :	394	34%
Percent :	17%	9%	16%	15%	11%	15%	17%	ADT :	197	

ADT Volume vs. Time (all lanes combined)



ADT By Day of Week (all lanes)



Volume Summary Report: Shields River T

Station ID : Shields River T

Info Line 1 : Top of road
 Info Line 2 : 5 foot spacing

GPS Lat/Lon :

DB File : Shields River T.DB

Last Connected Device Type : RoadRunner3

Version Number : 1.34

Serial Number : 19236

Number of Lanes : 2

Posted Speed Limit : 0.0 mph

Lane Configuration

#	Dir.	Information	Volume Mode	Volume Sensors	Divide /2	Comment
1.			Normal	Veh.	No	
2.	Opp -		Normal	Veh.	No	

Total Count:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	0	0	0	0	0	0	6	5	5	14	12	11	12	15	15	14	12	11	10	11	5	13	1	0	172
Lane #2	0	1	0	0	0	2	1	2	3	1	15	22	11	16	10	19	16	15	12	10	7	5	0	0	168
TOTAL	0	1	0	0	0	2	7	7	8	15	27	33	23	31	25	33	28	26	22	21	12	18	1	0	340

Percents:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Lane #1	0%	0%	0%	0%	0%	0%	3%	3%	3%	8%	7%	6%	7%	9%	9%	8%	7%	6%	6%	6%	3%	8%	1%	0%
Lane #2	0%	1%	0%	0%	0%	1%	1%	1%	2%	1%	9%	13%	7%	10%	6%	11%	10%	9%	7%	6%	4%	3%	0%	0%
TOTAL	0%	0%	0%	0%	0%	1%	2%	2%	2%	4%	8%	10%	7%	9%	7%	10%	8%	8%	6%	6%	4%	5%	0%	0%

ADT:	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	Total
Lane #1	0	0	0	0	0	0	1	1	1	2	2	2	2	2	2	2	2	2	1	2	1	2	0	0	27
Lane #2	0	0	0	0	0	0	0	0	0	0	2	3	2	2	1	3	2	2	2	1	1	1	0	0	22
TOTAL	0	0	0	0	0	0	1	1	1	2	4	5	4	4	3	5	4	4	3	3	2	3	0	0	49

ALL LANES

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total	Percent	
DW Totals :	53	23	35	31	48	60	90	Weekday (Mon-Fri) :	197	58%
# Days :	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ADT :	39	
ADT :	53	23	35	31	48	60	90	Weekend (Sat-Sun) :	143	42%
Percent :	16%	7%	10%	9%	14%	18%	26%	ADT :	72	

ADT Volume vs. Time (all lanes combined)

ADT By Day of Week (all lanes)

