

APPENDICES

**APPENDIX A -
SURVEYS RETURNED FROM MUNICIPALITIES**

CARLISLE BOROUGH

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)		X			
Erosion & Sedimentation from Streambanks		X			
Nutrients	X				
Other:					
Flooding	X				
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge			X		
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1.	40" CMP Walnut Bottom Road street flooding - College Street to West Street	2.
2.	48" CMP West street flooding between Ridge Street and Willow Street	1.
3.	Inlet surcharging - S. Hanover Street between Willow Street and Baltimore Street	
4.	Inlet surcharging - Clay & Hanover Sts. intersection	
5.	Inlet surcharging - Pitt Street & Lincoln Street intersection	
6.	Inlet surcharging and Letort Spring Run overflow - street and basement flooding	
7.	Street flooding - Meadow Blvd. and Terrace Avenue - Valley Meadows Park	

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)	✓				
Erosion & Sedimentation from Streambanks		✓			
Nutrients			✓		
Other: <u>Septic Tank Discharge</u>				✓	
Flooding	✓				
Development-Related Stormwater increases		✓			
Inadequate Groundwater Recharge			✓		
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1.	<u>Pine Hill Road / Hazard Lane</u>	
2	<u>Sheet Flow at Wertzville Road</u>	
3.	<u>Streambank Erosion Townshipwide</u>	
4.	<u>Sumnerdale Inadequate Stormwater Systems</u>	
5.	<u>West Fairview Inadequate Stormwater System</u>	
6.	<u>Joyce Road & Fairway Drive</u>	36" CMP
7.	<u>Magara RD & Aerie Road</u>	36" CMP

LOWER ALLEN TWP.

1 of 2

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)			✓		
Erosion & Sedimentation from Streambanks		✓			
Nutrients					✓
Other:					
Flooding	✓				
Development-Related Stormwater Increases			✓		
Inadequate Groundwater Recharge				✓	
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1	12'x8' CMP ARCH, CONSTRUCTED AT IMPROPER ELEVATION	
2	UNDEFINED CHANNEL	
3	12" AND 15" CROSS PIPES, NO ADEQUATE DISCHARGE POINTS	
4	VARIOUS SIZE CMPs, NO ADEQUATE DISCHARGE POINTS	
5	21" AND 24" CMP	
6	ROADSIDE SWALES - INADEQUATE SIZE	
7	ROADSIDE SWALES - INADEQUATE SIZE	
8	NEGATIVE SLOPE AT DOWNSTREAM MANHOLE	
9	18" CMP / OPEN SWALE	

2 of 2

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)					
Erosion & Sedimentation from Streambanks					
Nutrients					
Other:					
Flooding					
Development-Related Stormwater Increases					
Inadequate Groundwater Recharge					
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)					X
Erosion & Sedimentation from Streambanks					X
Nutrients					X
Other:					X
Flooding	X				
Development-Related Stormwater Increases		X			
Inadequate Groundwater Recharge			X		
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

MIDDLESEX TOWNSHIP - COMPLETED BY ZONING OFFICER, MARK CARPENTER

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)		X			
Erosion & Sedimentation from Streambanks			X		
Nutrients			X		
Other:					
Flooding	X				
Development-Related Stormwater Increases		X			
Inadequate Groundwater Recharge			X		
Other (please identify): Runoff from paved lots in trucking facilities.	X				

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1	APPROX 36" CMP under Norfolk Southern RR Row obstructed from farming activity caused backup of stormwater along Old Stone House Road	2
2	Roadside swales along Old Stone House Road undersized for back water from obstructed culvert #1	1
3	during major storm events, runoff flows from S. Middleton Twp. across TRIMBLE ROAD and floods undersized roadside swales along Hickorytown Road, Chestnut Drive, Shellback Court and Redwood Hills Circle and undersized swales on private property before draining into Crystal Lake and eventually Hogestown Run.	
4	Conodoguenet creek at Wolf's Bridge - streambank erosion and stream channel obstruction by trees and siltation during major storm events from upstream development increasing flow volumes	

MONROE TWP.

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)		X			
Erosion & Sedimentation from Streambanks		X			
Nutrients	X				
Other:					
Flooding		X			
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge		X			
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

N. MIDDLETON TWP.

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)	X				
Erosion & Sedimentation from Streambanks	X				
Nutrients	X				
Other:					
Flooding	X				
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge	X				
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1	OLD GAP RD - 24" CMP	1
2	Hoy RD - 15" RCP	2
3	NORTH MIDDLETON RD - 24" RCP	3
4	EASY RD - 30" SMOOTH BORE PLASTIC 24" " " " 18" " " "	4
5	WILLOW GRAVE RD - 36" RCP	5

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

SHIREMANSTOWN BOROUGH

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)	No	Farmland			X
Erosion & Sedimentation from Streambanks	No	Watercourses			X
Nutrients					X
Other:					
Flooding			X		
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge					X
Other (please identify):					

*mapped
Added to survey*

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
	No Obstructions	

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Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)				Note 1	
Erosion & Sedimentation from Streambanks				Note 1	
Nutrients				Note 1	
Other:					
Flooding	Note 2				
Development-Related Stormwater Increases	Note 2				
Inadequate Groundwater Recharge				Note 3	
Other (please identify):	Note 4				

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

SOUTH MIDDLETON TOWNSHIP

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)	X				
Erosion & Sedimentation from Streambanks	X				
Nutrients	X				
Other:					
Flooding	X				
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge	X				
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

Upper Allen Township

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)		X			
Erosion & Sedimentation from Streambanks	X				
Nutrients		X			
Other:					
Flooding	X				
Development-Related Stormwater Increases		X			
Inadequate Groundwater Recharge		X			
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

Wormley, Texas

Received

mapped

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)				X	
Erosion & Sedimentation from Streambanks	X				
Nutrients		X			
Other:					
Flooding	X				
Development-Related Stormwater Increases				X	
Inadequate Groundwater Recharge				X	
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1001	Storm 111-8	
1002		
1003		
1004		
1005		
1006		
1007		
1008		
1009		
1010		

New problem Areas to Add:

✓ Comp Hill

between 15th + 16th Street

→ low area near State St. - poor drainage

This is only one new problem area

DICKINSON TWP.

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)	✓				
Erosion & Sedimentation from Streambanks	✓				
Nutrients	✓				
Other:					
Flooding	✓				
Development-Related Stormwater Increases	✓				
Inadequate Groundwater Recharge				✓	
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
	Green Mountain Rd	
1	48" CCP Danks + road edges grading around pipe Twp plans to install concrete Headwall to better direct water and clean out the gutter system	
2	30" x 11" RCP Arch Culvert / Area floods every Heavy Rain Twp plans to try and work w/ Penn Dot to solve problem Pine Rd SR-3006 Segment 160 Offset 8+73	
3	my 22' 50" Bridge/Road is right at creek level and it floods during heavy rains. Twp plans to clear debris from bridge inlet Stuart Rd	
4	low lying ground area, is barely above creek level Twp plans to do minor grading / talk w/ Farmer to adjust plowing practices. Montserra Rd	
5	low lying topography causes area to flood during storms + heavy rains. Grade swells and add new swells to convey water to culverts Ecks Mill Rd	
6	low lying topography causes Rd to flood N. Dickinson School Rd + W Yellow Breaches	
7	Floods during major events from Laurel Lake Dam DNR is dredging the lake to help w/ problem Pine Grove Rd	
8	Camp ground floods during heavy rains due to low lying topography at creek camp ground	
9	Floods during heavy rains - Twp plans to clean debris with permission of land owner Toland / Tagg Run	

Received
11-30-06

Received
11-30-06

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:	X				
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)	X				
Erosion & Sedimentation from Streambanks	X				
Nutrients			X		
Other:					
Flooding			X		
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge			X		
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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LOWER MIFFLIN

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)	X				
Erosion & Sedimentation from Streambanks	X				
Nutrients	X				
Other:					
Flooding	X				
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge			X		
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1	Donald Leatherman Property 740 Shed Rd Newville	
2	Richard Beatty Farm 101 Meadows Rd Newville	
	Roadmaster Eugene Henry 776-5308	
	Can give details.	

NORTH NEWTON TWP.

W
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survey

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)					X
Erosion & Sedimentation from Streambanks				X	
Nutrients				X	
Other:					
Flooding		X			
Development-Related Stormwater Increases					X
Inadequate Groundwater Recharge					X
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1	Mountain Road Bridge over Conodoguinet Creek	1
4	Bridge on Fish Hatchery Road	4

W

PENN TOWNSHIP

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)		X			
Erosion & Sedimentation from Streambanks		X			
Nutrients			X		
Other:					
Flooding	X				
Development-Related Stormwater Increases			X		
Inadequate Groundwater Recharge	X				
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
A	Bridge on Rte. 233	
B	Bridge on Pine Rd.	
C	48" Pipe on Feach orchard Rd.	
D	Bridge on Walnut Bottom Rd. @ Pine Rd.	
E	15" Pipe on Leeds Rd.	
F	15" Pipe on South Farm Rd.	
G	48" Pipe on Southside Drive @ Seavers Rd.	

NO OBST.

added to survey

Shippensburg Trap - West

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

Southampton Trip
the issues are
a copy of your **MAPPED**

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)		✓			
Erosion & Sedimentation from Streambanks		✓			
Nutrients		✓			
Other:					
Flooding			✓		
Development-Related Stormwater Increases		✓			
Inadequate Groundwater Recharge	✓				
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)		X			
Erosion & Sedimentation from Streambanks		X			
Nutrients		X			
Other:					
Flooding		X			
Development-Related Stormwater Increases		X			
Inadequate Groundwater Recharge		X			
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

W. Pennsboro twp.

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)			✓		
Erosion & Sedimentation from Streambanks				✓	
Nutrients				✓	
Other:					
Flooding		✓			
Development-Related Stormwater Increases			✓		
Inadequate Groundwater Recharge				✓	
Other (please identify):					

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

ID #	Description (i.e. 36" CMP, etc.)	Associated Problem ID# (if any)
1	12" CMP	
2	4' x 4' Box culvert	
3	No structure - water runs along roadway	
4	33" x 48" Elliptical RCP	
5	4' x 9' Concrete arch downstream / 2 x 36" RCP upstream	
6	21" RCP / 21" CMP	
7	4' x 5' Box culvert	
8	Bridge over Mount Rock Spring Creek	
9	7' x 9' arch	

FAIRVIEW / N.P.
YORK County

Description	Municipal Prioritization				
	Very Important (5)	(4)	Moderately Important (3)	(2)	Relatively Unimportant (1)
Water Quality:					
Erosion & Sedimentation on Disturbed Lands (farmlands and construction sites)			X		
Erosion & Sedimentation from Streambanks	X				
Nutrients		X			
Other:					
Flooding	X				
Development-Related Stormwater Increases	X				
Inadequate Groundwater Recharge	X				
Other (please identify):					

[illegible]

Please prioritize the stormwater-related issues listed below for your municipality. If the issues are particularly relevant in a subarea of your municipality, please indicate those areas on a copy of your municipal base map and return the map with your survey.

Please identify the obstructions (i.e. bridges, culverts, dams, etc.) in your municipality that relate to localized stormwater management problem areas. We also ask that you assign an identification number to each obstruction and mark its location on a copy of your municipal base map. Further information on the problem areas associated with these obstructions or other features or conditions is requested on the following page.

[illegible]

**APPENDIX B -
PROBLEM AREAS IDENTIFIED BY MUNICIPALITIES**

**Cumberland County Stormwater Management Plan
Problem Areas - Eastern Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
Camp Hill						
CH-1	Between 15th & 16th Streets - low area near State Street					
Carlisle Borough						
CA-1	Walnut Bottom Rd. flooding. College St to West St. 40" CMP.	x			x	When Letort Spring Run rises during heavy runoff, it chokes off the drainage system causing street flooding.
CA-2	West St. flooding between Ridge St & Willow St. 48" CMP.	x			x	When Letort Spring Run rises during heavy runoff, it chokes off the drainage system causing street flooding.
CA-3	S. Hanover St. between Willow St. & Baltimore St.	x			x	Inlet surcharging.
CA-4	Clay St. & Hanover St. Intersection	x			x	Inlet surcharging.
CA-5	Pitt St. & Lincoln St. intersection	x			x	Inlet surcharging.
CA-6	Inlet surcharging and Letort Spring Run overflow.	x			x	Sometimes Letort Spring Run overflows and floods roadways and basements.
CA-7	Meadow Blvd & Terrace Ave., Valley Meadows Park	x				No conveyance systems - surface drainage only. Street flooding.
East Pennsboro Township						
EP-1	Pine Hill Rd/ Hazzard Ln	x		x	x	No curbing along Wertzville Rd, or stormwater collection and conveyance systems.
EP-2	909-911 Wertzville Rd			x	x	
EP-3	Township-wide streambank erosion	x		x	x	Inadequate stormwater collection systems.
EP-4	Summerdale				x	
EP-5	West Fairview				x	Inadequate stormwater collection systems.
EP-6	Joyce Rd & Fairway Dr	x		x	x	
EP-7	Magaro Rd & Acri Rd	x			x	
Hampden Township						
HA-1	Trindle Rd & Norway St	x				No conveyance system.
HA-2	5270 Trindle Rd				x	No conveyance system.
HA-3	5257 Trindle Rd	x				No conveyance system.
HA-4	5100 Trindle Rd	x				No conveyance system.

**Cumberland County Stormwater Management Plan
Problem Areas - Eastern Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
Lower Allen Township						
LA-1	Gettysburg Rd & Audubon Rd		x		x	
LA-2	Cedar Run at Bortek Industries	x	x		x	
LA-3	Windsor Park Shopping Center at Simpson Ferry Rd	x	x		x	
LA-4	Rossmoyne Manor				x	
LA-5	W. Maple Ave/ Pinewood Dr/ Rupp Ave				x	
LA-6	Thompson Lane				x	
LA-7	Slate Hill Rd	x			x	
LA-8	Oneida Rd		x		x	
LA-9	Highland Circle/ Carlisle Rd	x			x	
LA-10	Boxwood Lane				x	
LA-11	Hummel Avenue			x	x	
Mechanicsburg Borough						
ME-1	York Circle - drainage easement		x			
ME-2	Memorial Park				x	System discharges to sump that overflows into park.
ME-3	Broad Street	x				Major volume of water from Williams Grove Rd and the Senior High School.
ME-4	Elmwood – drainage	x				System was designed in the 1970s to empty into sump (sinkhole).
ME-5	Darla Road					Sinkhole developed in underground system low point - high volume of water drains here.
ME-6	Lake “Simpson”	x				
ME-7	Apple Drive & Cocklin Drive	x				
ME-8	Market & Main Sts./Norwood & Main Sts.	x				
ME-9	Minimizing stormwater inputs in northern portions of the Borough	x				
Middlesex Township						
MI-1	Old Stonehouse Rd & RR ROW		x	x	?	
MI-2	Old Stonehouse Rd – swales				x	
MI-3	Hickorytown Rd – swales undersized				x	
MI-4	Conodoguinet Creek & Wolfs Bridge - erosion	x	x	x		

**Cumberland County Stormwater Management Plan
Problem Areas - Eastern Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
Monroe Township						
MO-1	Heisey Rd (Baish Rd to Park Place)				x	Need a larger culvert under Park Place or add another pipe beside it.
MO-2	Leidigh Drive & Criswell Drive	x				Area is very flat - difficult to attain proper drainage. Runoff from South Mountain floods this area.
MO-3	York Rd (Rt 74) S of Baish Rd	x				Water runs across road due to poor side ditches.
New Cumberland						
NC-1	Flooding streets and roadways.					River backing up Yellow Breeches Creek.
North Middleton Township						
NM-1	Old Gap Road - 24" CMP				x	Associated with adjacent pond outlet.
NM-2	Hoy Road - 15" RCP				x	
NM-3	North Middleton Road - 24" RCP				x	
NM-4	Easy Road - 18", 24", 30" smooth bore plastic.				x	Adjacent topography.
NM-5	Willow Grove Road - 36" RCP				x	
Shiremanstown Borough						
SH-1	Courtland Alley; Market St/ Irvin St.					No conveyance system. Water floods private property.
SH-2	Market St & Green St.					Dead end conveyance system. Adds to street flow of SH-1.
Silver Spring Township						
SS-1	486 N. Locust Point Road. 24" HDPE				x	Inadequate downstream facilities. Outfall lower than adjacent land.
SS-2	Kost Road South of Rt. 11	x			x	Vertical dip in road with inadequate profile for properly sized pipe.
SS-3	N. Locust Point Rd & Kost Rd				x	Vertical dip in road with inadequate profile for properly sized pipe. (No pipe.)
SS-4	90 Green Ridge Road. 60" RCP	x				Previous upslope construction may contribute to inundation.
SS-5	Millers Gap Road.	x			x	Subject of township stormwater improvement project.
SS-6	Sample Bridge Rd & Sunset Rd. 15" CMP				x	Recent correction due to high water event.

**Cumberland County Stormwater Management Plan
Problem Areas - Eastern Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
SS-7	384 Sample Bridge Road. 12", 24" CMP. 3'x8' RC culvert		x		x	CMPs are obstructed with debris; may be misaligned.
SS-8	Willow Mill Park Rd @ Conodoguinet					Road is too low and within floodplain.
SS-9	21 Willow Mill Park Road. 24" CMP		x	x	x	Pipe undersized. No room for additional facilities.
SS-10	196 Willow Mill Park Road. 30" RCP, 36" CMP		x	x	x	Heavily silted. Poor grading on adjacent areas.
SS-11	80 Beechcliff Road. 15" HDPE	x				Unnamed trib to Conodoguinet - subject to flash flooding. Inadequate collection system adjacent to roadway.
SS-12	58 to 20 Biddle Road	x			x	Road is too low and within floodplain. Road profile too low for adequate pipe size.
SS-13	Woods Drive & Hogestown Road	x		x		PENNDOT storm drains. Improvements planned within 5 years.
SS-14	126 State Road. 24" RCP		x	x	x	PENNDOT cross culvert. Partially silted. Outfall lower than adjacent land.
SS-15	284 Sample Bridge Road. 30" RCP, 36" CMP.				x	At crossing under Sample Bridge Rd. 30" heavily silted; 36" needs repairs. Poor grading on adjacent areas.
SS-16	29 & 31 King Drive. 15" CMP			x	x	Dip in road profile. Poor physical condition; minimal backwater area.
SS-17	456 Rich Valley Road			x		Partial siltation at outfall. Adjacent grading problems and skewed alignment.
SS-18	20 Sherwood Drive	x			x	Unnamed trib to Conodoguinet - subject to flash flooding.
SS-19	1300 Block of Old Willow Mill Rd				x	System inadequate. Drainage issues complex and difficult to resolve.
South Middleton Township						
SM-1	Alexander Spring Rd & Walnut Bottom Rd					Land area is very flat; no place to positively outfall the stormwater.
SM-2	Stonehedge Shopping Center					Center drains to a basin with no positive outflow. Natural drainage blocked due to development.
SM-3	Trindle Rd	x				Water flows to a yard which is the lowest point.
SM-4	Petersburg Rd	x				Water ponds at residence due to altered drainage pattern after development.
SM-5	Limestone Road	x				Water flows to a yard which is the lowest point.
SM-6	S. Spring Garden St	x				Wetland area at headwaters of Letort Spring Run.

**Cumberland County Stormwater Management Plan
Problem Areas - Eastern Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
SM-7	Netherby Development	x				Need to address on-site pre-development conditions and off-site bypass drainage in karst terrain.
SM-8	Sandbank Rd	x				No culvert or defined drainageway.
SM-9	Westgate Development	x				Stormwater facility does not infiltrate. Was retrofitted.
SM-10	Pine Rd/Sycamore Dr					Homes built in floodplain.
SM-11	Southview Estates				x	Need an outlet from infiltration facility that is lower in elevation than the road.
SM-12	Yellow Breeches @ Holly Pike		x			Debris.
SM-13	Mountain Creek @ Ladnor Ln					Flooding during major events.
SM-14	Mountain Creek @ Ladnor Ln					Flooding during major events.
SM-15	Petersburg Rd		x			Roadway located in a floodplain.
SM-16	Cumberland Hills		x			Flooding during major events.
SM-17	George Hing		x			Flooding during major events.
SM-18	Downstream of Misty Meadows	x				Swale cannot handle volume of water associated with the development.
SM-19	Earl St		x			No conveyance system.
SM-20	Meadowood Development	x				Downstream conveyance cannot handle post-development discharge.
Upper Allen						
UA-1	Gettysburg Rd - stream flooding		x		x	
UA-2	Allendale Rd - stream/street flooding		x		x	
UA-3	Eric Ave - sinkholes					SW detention in sinkhole prone area.
UA-4	E. Winding Hill Rd - stream/street/ private property flooding				x	
UA-5	S. Market St & Turnpike - stream, parking lot/ private property flooding				x	
UA-6	Elmwood Ave/ Shepardstown Rd - private property flooding				x	Lack of outlet for SW retention/ Infiltration.
UA-7	Webercroft develop. - stream/street/ private property flooding		x		x	
UA-8	S. York St. (800 block) - street/ private property flooding	x			x	
UA-9	S. York St. at Cedar Run - street/ private property flooding		x		x	

**Cumberland County Stormwater Management Plan
Problem Areas - Eastern Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
UA-10	Miller Ave/ S. Broad St.					Lack of outlet for SW infiltration basin.
UA-11	Diehl Rd - Street/ intersection/ private property flooding				x	Lack of storm drain facilities.
UA-12	Bumble Bee Hollow Rd - street/ private property flooding	x	x			
UA-13	Bonny Lane -street/ private property flooding			x		
UA-14	Skipped in survey.					
UA-15	McCormick Rd - stream/ street/ private property flooding		x	x		
UA-16	McCormick Rd - stream/ street/ private property flooding	x	x			
UA-17	Hertzler Rd - stream/ street flooding				x	
UA-18	Hertzler Rd - stream/ street flooding		x			
UA-19	Mill Rd - street/ private property flooding		x			
UA-20	Grantham Rd - street/ private property flooding		x			
UA-21	E. Lisburn Rd. - street/ private property flooding		x		x	
Wormleysburg Borough						
WO-1	Sewer storm drain pipes				x	
WO-2	Erosion on and along road	x				
WO-3	Front Street – flooding					
WO-4	Mummert Rd – drains onto property	x				

**Cumberland County Stormwater Management Plan
Problem Areas - Western Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
Cooke Township						
CT-1	State Parks – areas of flooding					Pine Grove Furnace - Limited areas in park flood during extreme weather events. Not related to new development. Erosion in Michaux State Forest related to logging activities. Not related to new development.
CT-2	Lake Warren – dam overflow			x		Water crests top of dam during extreme events.
Dickinson Township						
DT-1	Green Mountain Road - 48" CCP	x	x			Erosion around pipe.
DT-2	Pine Road - 30"x19" RCP culvert	x			x	Floods during heavy rain.
DT-3	Stuart Road					Bridge road is at creek level and it floods during heavy rain.
DT-4	Montsera Road	x				Low lying ground near creek level.
DT-5	Enks Mill Road					Low topography. Flooding during heavy rains.
DT-6	N. Dickinson School Road					Low topography. Flooding during heavy rains.
DT-7	Pine Grove Road					Flooding during heavy rain.
DT-8	Campground					Flooding during heavy rain.
Hopewell Township						
HO-1	PA 641 bridge over Conodoguinet					
Lower Frankford Township						
LF-1	Meadow Brook Hill		x			Culvert to be replaced during summer 2008.
Lower Mifflin Township						
LM-1	740 Shed Rd, Newville. Creek water flooding.					
LM-2	101 Meadows Rd., soil erosion					
Newville Borough						
NE-1	Sharp St – open culvert floods	x				
NE-2	Fairfield St to W Main St - swales	x	x		x	Many cross pipes that are privately owned and undersized.
NE-3	Cove Ave to Big Spring Creek - culvert	x	x		x	Age and condition of structure are a concern.
NE-4	Stone Arch Culvert - Big Spring Creek		x	x		
North Newton Township						
NN-1	Mountain Rd bridge over Conodoguinet Creek		x	x		Bridge needs to be replaced. Debris obstructs channel.
NN-2	Big Spring Creek & Conodoguinet		x			Downed trees in creek.
NN-3	West Fish Hatchery Rd - flooding					Downstream flow channel is flat and narrow.

**Cumberland County Stormwater Management Plan
Problem Areas - Western Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
NN-4	Fish Hatchery Rd - bridge deterioration			x		Deteriorating abutment walls.
NN-5	Red Shed Rd - flooding	x				No culvert to allow water to cross under roadway.
NN-6	Running Pump Rd - flooding					Flat topography.
NN-7	Koser Rd to Springfield Rd - flooding					Farm debris. Flat topography.
NN-8	Fry Rd - flooding	x				No drainage controls in upstream watershed. Low area floods.
NN-9	Ridge Rd - flooding			x		Road ditches not maintained.
NN-10	Bullshead Rd at culvert crossing					May need additional culvert. Flat topography.
NN-11	Bullshead Rd at bridge crossing					Flat topography and low bridge elevation.
NN-12	Fish Hatchery Rd at culvert crossing					May need additional culvert.
Penn Township						
PT-1	Bridge on Rt. 233		x		x	
PT-2	Bridge on Pine Road		x		x	
PT-3	Peach Orchard Rd – 48" pipe	x			x	
PT-4	Bridge on Walnut Bottom Rd & Pine Road		x		x	
PT-5	Leeds Rd – 15" pipe				x	
PT-6	South Farm Rd – 15" pipe				x	
PT-7	Southside Dr & Seavers Rd – 48" pipe		x		x	
Shippensburg Borough						
SH-1	Fayette St at Dykeman Rd at RR					
SH-2	Fogelsonger Rd near Rt. 696					
SH-3	Britton Rd. at Burd Run					
SH-4	Bard Rd. at bridge over Middle Spring					
SH-5	Route 174 & Queen St	x			x	
Southampton Township						
SO-1	Airport Road – Bridge				x	
South Newton Township						
	No problems identified					
West Pennsboro Township						
WP-1	12" CMP				x	
WP-2	4' x 4' box culvert		x			
WP-3	No structure – water runs on road	x				
WP-4	33" x 48" elliptical RCP		x		x	
WP-5	concrete arch downstream		x		x	
WP-6	21" CMP				x	
WP-7	4' x 5' box culvert				x	

**Cumberland County Stormwater Management Plan
Problem Areas - Western Municipalities**

ID#	Description	Possible Causes				
		Inadequately Controlled Runoff	Obstructions	Inadequate Maintenance	Undersized Conveyance System	Other
WP-8	Mount Rock Spring Creek bridge				x	
WP-9	7' x 9' arch				x	Stream makes a sharp turn at arch.
WP-10	Conodoguinet Creek floods					Flat areas and flood plain along creek.

**APPENDIX C -
SIGNIFICANT OBSTRUCTIONS**

BRIDGES

Bridge Information			
Structure ID CC 1010			
Piers			
Spans			
Geometry	Other	Number	0
Width	208	Shape	
Height	16	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	18
Distance from low chord to deck	1	Shape of abutments	Sloping
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	10		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	156	Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream			Floodplain		N Value
Bottom width (ft)	156	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Cultivated area	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Bridge Information					
Structure ID CC 1020					
Piers					
Spans					
Geometry	Box	Number	2		
Width	236	Shape	Elongated with semi-circular ends		
Height	22	Width at bottom	5		
Height where arch begins		Width	5		
		Height at bottom			
		Length	33		
Distance from low chord to deck	2	Shape of abutments	Vertical		
Distance from deck to parapet	2	Type of parapet	Concrete Barrier		
Angle of skew of flow	10				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	190	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream			Floodplain		N Value
Bottom width (ft)	190	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				

		Bridge Information	
		Structure ID CC 1030	
Spans		Piers	
Geometry	Box	Number	1
Width	210	Shape	Elongated with semi-circular ends
Height	18	Width at bottom	4
Height where arch begins		Width	5
		Height at bottom	14.5
		Length	36
Distance from low chord to deck	5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	142	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	10				
Downstream		Floodplain		N Value	
Bottom width (ft)	142	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	9				

		Bridge Information	
		Structure ID CC 1040	
Spans		Piers	
Geometry	Box	Number	4
Width	335	Shape	Triangular nose with 60 degree angle
Height	10	Width at bottom	
Height where arch begins		Width	4
		Height at bottom	
		Length	43
Distance from low chord to deck	4	Shape of abutments	Sloping
Distance from deck to parapet	4	Type of parapet	Concrete Barrier
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	210	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	210	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7.5				

		Bridge Information	
		Structure ID CC 1125	
Spans		Piers	
Geometry	Box	Number	0
Width	46	Shape	
Height	13	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	50
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	3.5	Type of parapet	Concrete Barrier
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	25	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Cultivated area	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	27	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID CC 1150	
Spans		Piers	
Geometry	Box	Number	0
Width	18	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)		Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Light brush and trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.					
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID CC 1310	
Spans		Piers	
Geometry	Box	Number	0
Width	14	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	25
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet	0	Type of parapet	Guide Rail
Angle of skew of flow	40		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	25	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	23	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID CC 1710	
Spans		Piers	
Geometry	Box	Number	0
Width	12	Shape	
Height	8	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	23
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	0.5	Type of parapet	Guide Rail
Angle of skew of flow	45		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID CC 1905	
Spans		Piers	
Geometry	Box	Number	0
Width	15	Shape	
Height	6.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	25
Distance from low chord to deck	1	Shape of abutments	Sloping
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	23	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	7				

		Bridge Information	
		Structure ID CC 1935	
Spans		Piers	
Geometry	Box	Number	0
Width	12	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	24.5
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	0.5	Type of parapet	Guide Rail
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID CC 3110	
Spans		Piers	
Geometry	Box	Number	2
Width		Shape	Elongated with semi-circular ends
Height		Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	38
Distance from low chord to deck		Shape of abutments	None
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow			

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	200	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	185	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID cc 5010	
Spans		Piers	
Geometry	Box	Number	1
Width	185	Shape	Triangular nose with 60 degree angle
Height	13	Width at bottom	6
Height where arch begins		Width	5
		Height at bottom	1
		Length	27
Distance from low chord to deck	4	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	125	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	115	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				

		Bridge Information	
		Structure ID CC 6450	
Spans		Piers	
Geometry	Box	Number	0
Width	169	Shape	
Height	16	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	18
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	30		

Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	160	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	160	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	6				

Spans		Bridge Information			
		Structure ID CC 8010			
		Piers			
Geometry	Box	Number	2		
Width	157	Shape	Square nose		
Height	11	Width at bottom	3		
Height where arch begins		Width	3		
		Height at bottom	6 ht from bottom of water to top flare.		
		Length	32		
Distance from low chord to deck	4	Shape of abutments	Vertical		
Distance from deck to parapet	3	Type of parapet	Concrete Barrier		
Angle of skew of flow	20				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	150	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6.5				
Downstream					
Bottom width (ft)	150	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6.5				

		Bridge Information	
		Structure ID CC 9610	
Spans		Piers	
Geometry	Arch	Number	1
Width	25	Shape	Square nose
Height	9	Width at bottom	5.5
Height where arch begins	6.5	Width	2.5
		Height at bottom	2.5
		Length	22
Distance from low chord to deck	3.5	Shape of abutments	Vertical
Distance from deck to parapet	.	Type of parapet	Guide Rail
Angle of skew of flow	40		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.	1				
Bank Full Depth	9				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	9				

		Bridge Information	
		Structure ID CC 9910	
Spans		Piers	
Geometry	Box	Number	0
Width	10	Shape	
Height	8.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	27.5
Distance from low chord to deck	0.5	Shape of abutments	Vertical
Distance from deck to parapet	0.5	Type of parapet	Guide Rail
Angle of skew of flow			

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	8				

		Bridge Information	
		Structure ID CC 10089	
Spans		Piers	
Geometry	Box	Number	3
Width	340	Shape	Elongated with semi-circular ends
Height	25+	Width at bottom	3
Height where arch begins		Width	3
		Height at bottom	
		Length	34
Distance from low chord to deck	0.5	Shape of abutments	None
Distance from deck to parapet	2.5	Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	230	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	9				
Downstream		Floodplain		N Value	
Bottom width (ft)	230	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information			
		Structure ID CC 10005			
Spans		Piers			
Geometry	Box	Number	3		
Width	282	Shape	Circular		
Height	12	Width at bottom	3		
Height where arch begins		Width	3		
		Height at bottom			
		Length	32		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet	3	Type of parapet	Concrete Barrier		
Angle of skew of flow	30				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	242	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	242	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID CC 10010	
Spans		Piers	
Geometry	Box	Number	0
Width	26	Shape	
Height	6.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	34
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet	3.5	Type of parapet	Concrete Barrier
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID CC 10090	
Spans		Piers	
Geometry	Box	Number	0
Width	27	Shape	
Height	10.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	29
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	25	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	9				
Downstream		Floodplain		N Value	
Bottom width (ft)	20	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	11				

		Bridge Information	
		Structure ID CC 10120	
Spans		Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	16
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID CC 10122	
Spans		Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	3.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Bridge Information			
Structure ID CC 10128			
Piers			
Spans			
Geometry	Box	Number	0
Width	12.5	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	45		

Stream Channel Characteristics					
Upstream			Floodplain		
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	N Value	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream			Floodplain		
Bottom width (ft)	12	Left	Medium to dense brush with scattered trees	N Value	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Bridge Information			
Structure ID CC 10210			
Piers			
Spans			
Geometry	Box	Number	3
Width	325	Shape	Circular
Height	25+	Width at bottom	3
Height where arch begins		Width	3
		Height at bottom	
		Length	105
Distance from low chord to deck	4.5	Shape of abutments	None
Distance from deck to parapet	4	Type of parapet	Concrete Barrier
Angle of skew of flow	45		

Stream Channel Characteristics					
Upstream			Floodplain		
Bottom width (ft)	275	Left	Medium to dense brush with scattered trees	N Value	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream			Floodplain		
Bottom width (ft)	275	Left	Medium to dense brush with scattered trees	N Value	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6.5				

		Bridge Information	
		Structure ID CC 10245	
Spans		Piers	
Geometry	Box	Number	0
Width	12	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	38
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet	2.5	Type of parapet	Concrete Barrier
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information			
		Structure ID CC 11600			
Spans		Piers			
Geometry	Box	Number	4		
Width	300	Shape	Elongated with semi-circular ends		
Height	13.5	Width at bottom	6		
Height where arch begins		Width	3.5		
		Height at bottom	0.5		
		Length	25.5		
Distance from low chord to deck	4.5	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	0				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	285	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	285	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Bridge Information			
Structure ID CC 11485			
Piers			
Spans			
Geometry	Box	Number	3
Width	307	Shape	Elongated with semi-circular ends
Height	15.5	Width at bottom	4
Height where arch begins		Width	4
		Height at bottom	
		Length	45
Distance from low chord to deck	4	Shape of abutments	None
Distance from deck to parapet	2.5	Type of parapet	Concrete Barrier
Angle of skew of flow	15		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	216	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream			Floodplain		N Value
Bottom width (ft)	216	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				

Bridge Information					
Structure ID CC 12000					
Piers					
Spans					
Geometry	Box	Number	3		
Width	256	Shape	Triangular nose with 30 degree angle		
Height	15	Width at bottom	3		
Height where arch begins		Width	3		
		Height at bottom			
		Length	43		
Distance from low chord to deck	2.5	Shape of abutments	Vertical		
Distance from deck to parapet	4	Type of parapet	Guide Rail		
Angle of skew of flow	15				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	207	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream			Floodplain		N Value
Bottom width (ft)	207	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID CC 12005	
Spans		Piers	
Geometry	Box	Number	7
Width	600	Shape	Elongated with semi-circular ends
Height	25++	Width at bottom	3
Height where arch begins		Width	3
		Height at bottom	
		Length	44
Distance from low chord to deck	4	Shape of abutments	None
Distance from deck to parapet	4	Type of parapet	Concrete Barrier
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	240	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	240	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information			
		Structure ID CC 12101			
Spans		Piers			
Geometry	Box	Number	0		
Width	23.5	Shape			
Height	8.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	37		
Distance from low chord to deck	3	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	10				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13.5	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3.1	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information	
		Structure ID CC 12110	
Spans		Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	36
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	15		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID CC 12136	
Spans		Piers	
Geometry	Box	Number	0
Width	12.5	Shape	
Height	3.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	50
Distance from low chord to deck	2	Shape of abutments	
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	8.5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Bridge Information			
Structure ID DR 5101			
Piers			
Spans			
Geometry	Box	Number	0
Width	16.5	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	34
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	45		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	10	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream			Floodplain		N Value
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.					
Bank Full Depth					

Bridge Information			
Structure ID DR 5110			
Piers			
Spans			
Geometry	Box	Number	0
Width	25	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	29
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	20	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream			Floodplain		N Value
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID DR 5120	
Spans		Piers	
Geometry	Box	Number	0
Width	30	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	26
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

		Bridge Information			
		Structure ID DR 5125			
Spans		Piers			
Geometry	Box	Number	1		
Width	45	Shape	Triangular nose with 60 degree angle		
Height	6	Width at bottom	4		
Height where arch begins		Width	3		
		Height at bottom	1		
		Length	42		
Distance from low chord to deck	1.5	Shape of abutments	Vertical		
Distance from deck to parapet	3.5	Type of parapet	Other		
Angle of skew of flow	10				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Bridge Information			
Structure ID DR 5310			
Piers			
Spans			
Geometry	Box	Number	0
Width	21	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	29
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet	2.5	Type of parapet	Guide Rail
Angle of skew of flow	10		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	13	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream			Floodplain		N Value
Bottom width (ft)	11	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Bridge Information					
Structure ID DR 5420					
Piers					
Spans					
Geometry	Box	Number	1		
Width	44	Shape	Triangular nose with 60 degree angle		
Height	5.5	Width at bottom	5		
Height where arch begins		Width	3		
		Height at bottom	2		
		Length	28		
Distance from low chord to deck	1	Shape of abutments	None		
Distance from deck to parapet	3	Type of parapet	Other		
Angle of skew of flow	20				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	9	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream			Floodplain		N Value
Bottom width (ft)	39	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID DR 5430	
Spans		Piers	
Geometry	Box	Number	0
Width	9.5	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Concrete Barrier
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information			
		Structure ID DR 5510			
Spans		Piers			
Geometry	Box	Number	0		
Width	17	Shape			
Height	5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	50		
Distance from low chord to deck	1	Shape of abutments	None		
Distance from deck to parapet	3.5	Type of parapet	Guide Rail		
Angle of skew of flow	35				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information					
		Structure ID FR 6210					
Spans		Piers					
Geometry	Other	Number	0				
Width	16.5	Shape					
Height	6.5	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	11				
Distance from low chord to deck	1	Shape of abutments	None				
Distance from deck to parapet		Type of parapet	Other				
Angle of skew of flow	10						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones		
Bank Geom. Vert.	1						
Bank Full Depth	5						
Downstream		Floodplain		N Value			
Bottom width (ft)	15.5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	5.5						
		Bridge Information					
		Structure ID FR 6420					
Spans		Piers					
Geometry	Box	Number	0				
Width	13	Shape					
Height	4.5	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	32				
Distance from low chord to deck	1.5	Shape of abutments	None				
Distance from deck to parapet		Type of parapet	Guide Rail				
Angle of skew of flow	45						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	12.5	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush		
Bank Geom. Vert.	1						
Bank Full Depth	5						
Downstream		Floodplain		N Value			
Bottom width (ft)	5.5	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush		
Bank Geom. Vert.	1						
Bank Full Depth	5.5						

		Bridge Information			
		Structure ID FR 6620			
Spans		Piers			
Geometry	Box	Number	0		
Width	14	Shape			
Height	5.3	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	28		
Distance from low chord to deck	1	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	30				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream					
Bottom width (ft)	7	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.	1				
Bank Full Depth	5				
		Bridge Information			
		Structure ID FR 6725			
Spans		Piers			
Geometry	Arch	Number	0		
Width	8.5	Shape			
Height	6.3	Width at bottom			
Height where arch begins	3.3	Width			
		Height at bottom			
		Length	22.5		
Distance from low chord to deck	0.5	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	10				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream					
Bottom width (ft)	10	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information	
		Structure ID FR 7210	
Spans		Piers	
Geometry	Box	Number	0
Width	11	Shape	
Height	9	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	34
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.	1				
Bank Full Depth	6.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Scattered brush, heavy weeds	Left	
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information			
		Structure ID HZR 11765			
Spans		Piers			
Geometry	Box	Number	0		
Width	16	Shape			
Height	7	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	17.5		
Distance from low chord to deck	0.5	Shape of abutments	Vertical		
Distance from deck to parapet	2.5	Type of parapet	Other		
Angle of skew of flow	30				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6.5				

		Bridge Information	
		Structure ID LR 8105	
Spans		Piers	
Geometry	Box	Number	0
Width	19	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	16
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	26.5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	26.5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information			
		Structure ID LR 8110			
Spans		Piers			
Geometry	Box	Number	0		
Width	43	Shape			
Height	8.5	Width at bottom			
Height where arch begins	4	Width			
		Height at bottom			
		Length	73		
Distance from low chord to deck	4	Shape of abutments	Vertical		
Distance from deck to parapet	3	Type of parapet	Guide Rail		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	35	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	34	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID LR 8320	
Spans		Piers	
Geometry	Arch	Number	1
Width	12.5	Shape	Square nose
Height	5.5	Width at bottom	2.5
Height where arch begins	5.5	Width	2.5
		Height at bottom	5.5
		Length	13
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	35	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	28	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information			
		Structure ID LR 8330			
Spans		Piers			
Geometry	Box	Number	0		
Width	26.5	Shape			
Height	4	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	22		
Distance from low chord to deck	2	Shape of abutments	Other		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	45				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	30	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	34	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Dense willows or with undergrowth	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.0				

		Bridge Information	
		Structure ID LR 8340	
Spans		Piers	
Geometry	Other	Number	0
Width	37	Shape	
Height	8.7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	28
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	28	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	28	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2.5				

		Bridge Information	
		Structure ID LR 8405	
Spans		Piers	
Geometry	Box	Number	0
Width	14	Shape	
Height	4.3	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	2.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	29	Left	Medium to dense brush with scattered trees	Left	Lined or built-up channels
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Concrete
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information Structure ID LR 8455					
Spans		Piers					
Geometry	Box	Number	0				
Width	23	Shape					
Height	4	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	52				
Distance from low chord to deck	2	Shape of abutments					
Distance from deck to parapet		Type of parapet					
Angle of skew of flow	0						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	23	Left	Lawn, with buildings	Left	Lined or built-up channels		
Bank Geom. Horiz.	1	Right	Lawn, with buildings	Right	Gravel Bottom with Sides of:		
Bank Geom. Vert.	1						
Bank Full Depth	5						
Downstream		Floodplain		N Value			
Bottom width (ft)	23	Left	Lawn, with trees and/or fences	Left	Lined or built-up channels		
Bank Geom. Horiz.	1	Right	Lawn, with trees and/or fences	Right	Gravel Bottom with Sides of:		
Bank Geom. Vert.	1						
Bank Full Depth	3						
		Bridge Information Structure ID LR 8469					
Spans		Piers					
Geometry	Box	Number	0				
Width	13	Shape					
Height	2.5	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	17				
Distance from low chord to deck	1.5	Shape of abutments					
Distance from deck to parapet		Type of parapet					
Angle of skew of flow	40						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	21	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	4						
Downstream		Floodplain		N Value			
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	4.5						

		Bridge Information	
		Structure ID LR 8470	
Spans		Piers	
Geometry	Box	Number	0
Width	21	Shape	
Height	3.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	18
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	4	Type of parapet	Concrete Barrier
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	33	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	32				
Downstream		Floodplain		N Value	
Bottom width (ft)	33	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	32				

		Bridge Information			
		Structure ID LR 8475			
Spans		Piers			
Geometry	Other	Number	0		
Width	17	Shape			
Height	3.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	12		
Distance from low chord to deck	4	Shape of abutments			
Distance from deck to parapet	n/a	Type of parapet			
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID LR 8480	
Spans		Piers	
Geometry	Box	Number	0
Width	20	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	66
Distance from low chord to deck	2.5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	30		

Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	12.5	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Impervious with structures, commercial	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID LR 8485	
Spans		Piers	
Geometry	Box	Number	0
Width	8	Shape	
Height	2	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	0
Angle of skew of flow	0		

Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	18.5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	18.5	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID LR 8510	
Spans		Piers	
Geometry	Box	Number	0
Width	9	Shape	
Height	3	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	29
Distance from low chord to deck	1.5	Shape of abutments	Sloping
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Lawn, short grass	Left	Excavated or dredged channels
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Earth - Straight and Uniform
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

		Bridge Information			
		Structure ID SR 7110			
Spans		Piers			
Geometry	Box	Number	0		
Width	11	Shape			
Height	7.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	39		
Distance from low chord to deck	1	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Pasture or field with no brush	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Bridge Information			
Structure ID SR 7120			
Piers			
Spans			
Geometry	Box	Number	0
Width	15	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet	1	Type of parapet	Guide Rail
Angle of skew of flow	10		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	17	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream			Floodplain		N Value
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Bridge Information			
Structure ID SR 7320			
Piers			
Spans			
Geometry	Box	Number	0
Width	16	Shape	
Height	8	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	27
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	3.5	Type of parapet	Concrete Barrier
Angle of skew of flow	10		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	5	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream			Floodplain		N Value
Bottom width (ft)	5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2				

Bridge Information			
Structure ID SR 7420			
Piers			
Spans			
Geometry	Arch	Number	0
Width	6	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	34
Distance from low chord to deck	9	Shape of abutments	Vertical
Distance from deck to parapet	.5	Type of parapet	Guide Rail
Angle of skew of flow	10		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	10	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream			Floodplain		N Value
Bottom width (ft)	8	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Bridge Information			
Structure ID SR 7430			
Piers			
Spans			
Geometry	Other	Number	0
Width	8	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	24
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	Guide Rail
Angle of skew of flow	10		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream			Floodplain		N Value
Bottom width (ft)	11	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID SR 7435	
Spans		Piers	
Geometry	Box	Number	0
Width	8	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	29
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	0.5	Type of parapet	Guide Rail
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4?				
Downstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4?				

		Bridge Information			
		Structure ID STR 6110			
Spans		Piers			
Geometry	Arch	Number	0		
Width	41	Shape			
Height	13	Width at bottom			
Height where arch begins	8	Width			
		Height at bottom			
		Length	18		
Distance from low chord to deck	4	Shape of abutments	None		
Distance from deck to parapet	1	Type of parapet	Other		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	44	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	8				

		Bridge Information	
		Structure ID STR 6130	
Spans		Piers	
Geometry	Box	Number	0
Width	76	Shape	
Height	12	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	37
Distance from low chord to deck	5	Shape of abutments	Vertical
Distance from deck to parapet	4	Type of parapet	Concrete Barrier
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	23	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	8				

		Bridge Information			
		Structure ID STR 6710			
Spans		Piers			
Geometry	Box	Number	0		
Width	30	Shape			
Height	11	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	23		
Distance from low chord to deck	1.5	Shape of abutments	None		
Distance from deck to parapet	3	Type of parapet	Concrete Barrier		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	32	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	2.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	28	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID STR 6910	
Spans		Piers	
Geometry	Box	Number	0
Width	20	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information	
		Structure ID STR 6925	
Spans		Piers	
Geometry	Box	Number	0
Width		Shape	
Height		Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	
Distance from low chord to deck		Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow			

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)		Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth					

		Bridge Information	
		Structure ID STR 6925A	
Spans		Piers	
Geometry	Box	Number	0
Width	28	Shape	
Height	11	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	49
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	3	Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID TR 3805	
Spans		Piers	
Geometry	Box	Number	0
Width	18	Shape	
Height	2.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet	0.5	Type of parapet	Concrete Barrier
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID TR 3810	
Spans		Piers	
Geometry	Box	Number	0
Width	12	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	23
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	0.5	Type of parapet	None
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID TR 3825	
Spans		Piers	
Geometry	Box	Number	0
Width	18	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	25
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

		Bridge Information	
		Structure ID wr 5110	
Spans		Piers	
Geometry	Box	Number	0
Width	24	Shape	
Height	8.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	54
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	2.5	Type of parapet	Concrete Barrier
Angle of skew of flow	40		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	27	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID wr 5310	
Spans		Piers	
Geometry	Box	Number	0
Width	21	Shape	
Height	10	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	13
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	Other
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

		Bridge Information	
		Structure ID wr 5610	
Spans		Piers	
Geometry	Box	Number	0
Width	18	Shape	
Height	5	Width at bottom	
Height where arch begins	0	Width	
		Height at bottom	
		Length	27
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	Guide Rail
Angle of skew of flow	45		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information			
		Structure ID YB 1510			
Spans		Piers			
Geometry	Box	Number	0		
Width	19	Shape			
Height	4	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	14		
Distance from low chord to deck	1.5	Shape of abutments			
Distance from deck to parapet	0.5	Type of parapet	Other		
Angle of skew of flow	10				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID YB 1520	
Spans		Piers	
Geometry	Arch	Number	1
Width	92	Shape	Triangular nose with 30 degree angle
Height	6	Width at bottom	6
Height where arch begins	4	Width	4
		Height at bottom	2
		Length	16
Distance from low chord to deck	2	Shape of abutments	
Distance from deck to parapet	1	Type of parapet	Other
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	72	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	72	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2.5				

		Bridge Information			
		Structure ID YB 1855			
Spans		Piers			
Geometry	Box	Number	1		
Width	47	Shape	Circular		
Height	5	Width at bottom	5		
Height where arch begins		Width	5		
		Height at bottom			
		Length	15		
Distance from low chord to deck	2	Shape of abutments			
Distance from deck to parapet	0.5	Type of parapet	Guide Rail		
Angle of skew of flow	45				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	42	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	42	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID YB 1865	
Spans		Piers	
Geometry	Box	Number	2
Width	132	Shape	Elongated with semi-circular ends
Height	8	Width at bottom	7
Height where arch begins		Width	4
		Height at bottom	0.5
		Length	45
Distance from low chord to deck	2.5	Shape of abutments	Vertical
Distance from deck to parapet	2.5	Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	35	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	60	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	6				

Spans		Bridge Information			
		Structure ID YB 3010			
		Piers			
Geometry	Box	Number	0		
Width	120	Shape			
Height	10	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	18		
Distance from low chord to deck	2	Shape of abutments	Sloping		
Distance from deck to parapet		Type of parapet	Other		
Angle of skew of flow	0				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	80	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	80	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Bridge Information			
Structure ID YB 3011			
Piers			
Spans			
Geometry	Box	Number	0
Width	20	Shape	
Height	3	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	22
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	1	Type of parapet	Guide Rail
Angle of skew of flow	0		

Stream Channel Characteristics					
Upstream			Floodplain		
Bottom width (ft)			Left	Medium to dense brush	N Value Left Streams in wide valleys
Bank Geom. Horiz.			Right	Medium to dense brush	Right No water.
Bank Geom. Vert.	1				
Bank Full Depth					
Downstream			Floodplain		
Bottom width (ft)	27		Left	Lawn, with trees and/or fences	N Value Left Streams in wide valleys
Bank Geom. Horiz.	3		Right	Lawn, with trees and/or fences	Right No water.
Bank Geom. Vert.	1				
Bank Full Depth	3				

Bridge Information					
Structure ID YB 3025					
Piers					
Spans					
Geometry	Box	Number	1		
Width	101	Shape	Triangular nose with 60 degree angle		
Height	8	Width at bottom	7		
Height where arch begins		Width	7		
		Height at bottom	0		
		Length	18		
Distance from low chord to deck	1	Shape of abutments	Sloping		
Distance from deck to parapet	2.5	Type of parapet	Other		
Angle of skew of flow	45				
Stream Channel Characteristics					
Upstream			Floodplain		
Bottom width (ft)	82		Left	Lawn, with trees and/or fences	N Value Left Streams in wide valleys
Bank Geom. Horiz.	3		Right	Lawn, with buildings	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream			Floodplain		
Bottom width (ft)	71		Left	Lawn, with buildings	N Value Left Streams in wide valleys
Bank Geom. Horiz.	3		Right	Lawn, with buildings	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

Bridge Information			
Structure ID YB 3030			
Piers			
Spans			
Geometry	Box	Number	0
Width	13	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	23
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	2	Type of parapet	Other
Angle of skew of flow	45		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	14	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream			Floodplain		N Value
Bottom width (ft)	13	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Bridge Information			
Structure ID YB 3035			
Piers			
Spans			
Geometry	Box	Number	2
Width	205	Shape	Elongated with semi-circular ends
Height	11	Width at bottom	3
Height where arch begins		Width	3
		Height at bottom	0
		Length	36
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet	2.5	Type of parapet	Guide Rail
Angle of skew of flow	10/45/45		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	195	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream			Floodplain		N Value
Bottom width (ft)	185	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Bridge Information			
Structure ID YB 3040			
Spans		Piers	
Geometry	Other	Number	0
Width	85	Shape	
Height	7.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	14
Distance from low chord to deck	0.5	Shape of abutments	None
Distance from deck to parapet	0	Type of parapet	Other
Angle of skew of flow	0		

Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	70	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	70	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Bridge Information			
Structure ID YB 4050			
Spans		Piers	
Geometry	Arch	Number	2
Width	128	Shape	Triangular nose with 60 degree angle
Height	12	Width at bottom	10
Height where arch begins	2	Width	8
		Height at bottom	2
		Length	21
Distance from low chord to deck	6	Shape of abutments	
Distance from deck to parapet	2	Type of parapet	Other
Angle of skew of flow	60		

Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	100	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	100	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID YB 4051	
Spans		Piers	
Geometry	Box	Number	0
Width	19	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	14
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	0.5	Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	20	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID YB 4052	
Spans		Piers	
Geometry	Arch	Number	0
Width	24	Shape	
Height	6	Width at bottom	
Height where arch begins	2	Width	
		Height at bottom	
		Length	18
Distance from low chord to deck	0.5	Shape of abutments	0
Distance from deck to parapet	2.5	Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)		Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Impervious with structures, commercial	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)	26	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID YB 4110	
Spans		Piers	
Geometry	Box	Number	0
Width	8	Shape	
Height	8	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	25
Distance from low chord to deck	1	Shape of abutments	
Distance from deck to parapet	2	Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Impervious with structures, commercial	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information			
		Structure ID YB 4111			
Spans		Piers			
Geometry	Box	Number	0		
Width	19	Shape			
Height	3	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	45		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet	0.5	Type of parapet	Other		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	34	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Impervious with structures, commercial	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Impervious with structures, commercial	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID YB 4112	
Spans		Piers	
Geometry	Box	Number	0
Width	16	Shape	
Height	3	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	50
Distance from low chord to deck	1	Shape of abutments	Sloping
Distance from deck to parapet	2	Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass	Right	No flow.
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Stream Channel Characteristics			
Downstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Impervious with structures, commercial	Right	Standing water.
Bank Geom. Vert.	1				
Bank Full Depth	1.5				

		Bridge Information	
		Structure ID YB 4130	
Spans		Piers	
Geometry	Box	Number	0
Width	16	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	26
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet	3.5	Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, with buildings	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID YB 4136	
Spans		Piers	
Geometry	Box	Number	1
Width	98	Shape	Elongated with semi-circular ends
Height	7.5	Width at bottom	6
Height where arch begins		Width	4
		Height at bottom	1
		Length	29
Distance from low chord to deck	2.5	Shape of abutments	None
Distance from deck to parapet	0.5	Type of parapet	Guide Rail
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	95	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	130	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information			
		Structure ID YB 4356			
Spans		Piers			
Geometry	Box	Number	2		
Width	116	Shape	Triangular nose with 60 degree angle		
Height	6	Width at bottom	6.5		
Height where arch begins		Width	6.5		
		Height at bottom			
		Length	39		
Distance from low chord to deck	7	Shape of abutments	None		
Distance from deck to parapet	0	Type of parapet	Other		
Angle of skew of flow	30				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	75	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	75	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

Spans		Bridge Information	
		Structure ID YB 4360	
		Piers	
Geometry	Box	Number	1
Width	91	Shape	Triangular nose with 60 degree angle
Height	9	Width at bottom	3
Height where arch begins		Width	3
		Height at bottom	
		Length	28
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		

Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	92	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream					
		Floodplain		N Value	
Bottom width (ft)	75	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

Spans		Bridge Information			
		Structure ID YB 4430			
		Piers			
Geometry	Box	Number	1		
Width	29.5	Shape	Triangular nose with 60 degree angle		
Height	5	Width at bottom	3.5		
Height where arch begins		Width	1.5		
		Height at bottom	2		
		Length	16.5		
Distance from low chord to deck	1.5	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	10				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	27	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID YB 4435	
Spans		Piers	
Geometry	Arch	Number	1
Width	113	Shape	Triangular nose with 60 degree angle
Height	9.5	Width at bottom	5
Height where arch begins		Width	5
		Height at bottom	
		Length	16
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	68	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	85	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information			
		Structure ID YB 4510			
Spans		Piers			
Geometry	Box	Number	0		
Width	22.5	Shape			
Height	8.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	37.5		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	60				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID YB 4520	
Spans		Piers	
Geometry	Box	Number	0
Width	14	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	15.5
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	None
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	7.5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID YB 4525	
Spans		Piers	
Geometry	Box	Number	0
Width	12	Shape	
Height	4.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)		Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.					
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)		Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Scattered brush, heavy weeds	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.					
Bank Full Depth					

		Bridge Information	
		Structure ID YB 4610	
Spans		Piers	
Geometry	Box	Number	1
Width	77	Shape	Triangular nose with 60 degree angle
Height	8	Width at bottom	5
Height where arch begins		Width	3
		Height at bottom	2.5
		Length	19
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	71	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	85	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

		Bridge Information			
		Structure ID YB 4725			
Spans		Piers			
Geometry	Box	Number	2		
Width	102	Shape	Triangular nose with 60 degree angle		
Height	9	Width at bottom	3		
Height where arch begins		Width	3		
		Height at bottom			
		Length	29		
Distance from low chord to deck	2.5	Shape of abutments	None		
Distance from deck to parapet	3	Type of parapet	Other		
Angle of skew of flow	20				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	102	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.					
Bank Full Depth					

		Bridge Information	
		Structure ID YB 4726	
Spans		Piers	
Geometry	Box	Number	0
Width	22	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	22
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information			
		Structure ID YB 5905			
Spans		Piers			
Geometry	Box	Number			
Width		Shape			
Height		Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length			
Distance from low chord to deck		Shape of abutments			
Distance from deck to parapet		Type of parapet			
Angle of skew of flow					
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

		Bridge Information	
		Structure ID YB 5910	
Spans		Piers	
Geometry	Box	Number	0
Width	22	Shape	
Height	4.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	48
Distance from low chord to deck	0.5	Shape of abutments	None
Distance from deck to parapet	1.5	Type of parapet	Guide Rail
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

		Bridge Information			
		Structure ID YB 5930			
Spans		Piers			
Geometry	Arch	Number	0		
Width	9	Shape			
Height	5.5	Width at bottom			
Height where arch begins	0	Width			
		Height at bottom			
		Length	38		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet	1	Type of parapet	Other		
Angle of skew of flow	30				
		Stream Channel Characteristics			
Upstream					
		Floodplain	N Value		
Bottom width (ft)	17	Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream					
		Floodplain	N Value		
Bottom width (ft)	20	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

Bridge Information			
Structure ID YB 5931			
Spans		Piers	
Geometry	Box	Number	2
Width	140	Shape	Square nose
Height	11.5	Width at bottom	4.5
Height where arch begins		Width	4.5
		Height at bottom	
		Length	28
Distance from low chord to deck	3	Shape of abutments	None
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	45		

Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	140	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	150	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Bridge Information			
Structure ID YB 5935			
Spans		Piers	
Geometry	ConSp	Number	6
Width	688	Shape	Elongated with semi-circular ends
Height	25+	Width at bottom	
Height where arch begins		Width	3
		Height at bottom	
		Length	
Distance from low chord to deck	10	Shape of abutments	
Distance from deck to parapet	5	Type of parapet	
Angle of skew of flow	0		
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)		Left	N Value Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			
Downstream		Floodplain	
Bottom width (ft)		Left	N Value Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			

		Bridge Information	
		Structure ID YB 5937	
Spans		Piers	
Geometry	Box	Number	0
Width	37	Shape	
Height	8.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	25.5
Distance from low chord to deck		Shape of abutments	
Distance from deck to parapet		Type of parapet	
Angle of skew of flow			

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	40	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	48	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID YB 5940	
Spans		Piers	
Geometry	Box	Number	1
Width	101	Shape	Circular
Height	11	Width at bottom	
Height where arch begins		Width	3
		Height at bottom	
		Length	21
Distance from low chord to deck	2.5	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	Guide Rail
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	110	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	95	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				

		Bridge Information	
		Structure ID YB 5941	
Spans		Piers	
Geometry	Box	Number	0
Width	16	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	20
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Paved or impervious	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information			
		Structure ID YB 5945			
Spans		Piers			
Geometry	Box	Number	0		
Width	31	Shape			
Height	10	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	34		
Distance from low chord to deck	4	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Other		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	12				
Downstream		Floodplain		N Value	
Bottom width (ft)	35	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID YB 5946	
Spans		Piers	
Geometry	Box	Number	0
Width	15	Shape	
Height	10.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	36
Distance from low chord to deck	4.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information			
		Structure ID YB 5947			
Spans		Piers			
Geometry	Box	Number	2		
Width	60	Shape	Triangular nose with 60 degree angle		
Height	9.5	Width at bottom	5		
Height where arch begins		Width	3.5		
		Height at bottom	3		
		Length	12		
Distance from low chord to deck	1.5	Shape of abutments	None		
Distance from deck to parapet	4	Type of parapet	Other		
Angle of skew of flow	20				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	30	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	12				

		Bridge Information	
		Structure ID YB 5948	
Spans		Piers	
Geometry	Box	Number	0
Width	9	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	27
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet	1	Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information	
		Structure ID YB 5976	
Spans		Piers	
Geometry	Other	Number	0
Width	103	Shape	
Height	12.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	5.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	79	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	81	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				

		Bridge Information	
		Structure ID YB 5977	
Spans		Piers	
Geometry	Box	Number	1
Width	150	Shape	Elongated with semi-circular ends
Height	10.5	Width at bottom	
Height where arch begins		Width	3.5
		Height at bottom	
		Length	32
Distance from low chord to deck	4	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	82	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	100	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				

		Bridge Information	
		Structure ID YB 5988	
Spans		Piers	
Geometry	Other	Number	0
Width	131	Shape	
Height	13.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	16
Distance from low chord to deck	1	Shape of abutments	Sloping
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	106	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	107	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	7				

		Bridge Information					
		Structure ID YB 5993					
Spans		Piers					
Geometry	Box	Number	2				
Width	314	Shape	Elongated with semi-circular ends				
Height	10	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length					
Distance from low chord to deck		Shape of abutments	Vertical				
Distance from deck to parapet		Type of parapet	Guide Rail				
Angle of skew of flow							
Stream Channel Characteristics							
Upstream					Floodplain		N Value
Bottom width (ft)	160	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	9						
Downstream		Floodplain		N Value			
Bottom width (ft)	166	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	7.5						
		Bridge Information					
		Structure ID YB 6420					
Spans		Piers					
Geometry	Box	Number	0				
Width	19	Shape					
Height	6.5	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	43				
Distance from low chord to deck	1.5	Shape of abutments	None				
Distance from deck to parapet	2.5	Type of parapet	Guide Rail				
Angle of skew of flow	35						
Stream Channel Characteristics							
Upstream					Floodplain		N Value
Bottom width (ft)	15	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools		
Bank Geom. Vert.	1						
Bank Full Depth	8						
Downstream		Floodplain		N Value			
Bottom width (ft)	15	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Winding - More Stones		
Bank Geom. Vert.	1						
Bank Full Depth	6						

		Bridge Information	
		Structure ID YB 7010	
Spans		Piers	
Geometry	Box	Number	0
Width	18	Shape	
Height	6.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	20
Distance from low chord to deck	2.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	8				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information			
		Structure ID YB 7110			
Spans		Piers			
Geometry	Box	Number	0		
Width	24	Shape			
Height	9	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	15		
Distance from low chord to deck	1.5	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	30				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information			
		Structure ID YB 7715			
Spans		Piers			
Geometry	Other	Number	1		
Width	118	Shape	Triangular nose with 30 degree angle		
Height	10	Width at bottom	4		
Height where arch begins		Width	4		
		Height at bottom			
		Length	19		
Distance from low chord to deck	2.5	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	0				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	90	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream					
Bottom width (ft)	92	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	7				
		Bridge Information			
		Structure ID YB 8425			
Spans		Piers			
Geometry	Box	Number	0		
Width	23	Shape			
Height	7.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	35		
Distance from low chord to deck	3	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Light brush and trees	Left	
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream					
Bottom width (ft)	20	Left	Light brush and trees	Left	
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information			
		Structure ID YB 8450			
Spans		Piers			
Geometry	Box	Number	1		
Width	116	Shape	Elongated with semi-circular ends		
Height	6	Width at bottom			
Height where arch begins		Width	3		
		Height at bottom			
		Length	47		
Distance from low chord to deck	2	Shape of abutments	Vertical		
Distance from deck to parapet	3	Type of parapet	Guide Rail		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	85	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	80	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
		Bridge Information			
		Structure ID YB 8610			
Spans		Piers			
Geometry	Box	Number	0		
Width	15	Shape			
Height	5.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length			
Distance from low chord to deck		Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow					
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of Timber and Brush
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Bridge Information			
Structure ID YB 8705			
Piers			
Spans			
Geometry	Box	Number	0
Width	40	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	65
Distance from low chord to deck	2	Shape of abutments	Other
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	90		

Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	8	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream			Floodplain		N Value
Bottom width (ft)	7	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Bridge Information					
Structure ID YB 8820					
Piers					
Spans					
Geometry	Box	Number	1		
Width	26	Shape	Elongated with semi-circular ends		
Height	4.5	Width at bottom			
Height where arch begins		Width	4		
		Height at bottom			
		Length	37		
Distance from low chord to deck	3	Shape of abutments	Vertical		
Distance from deck to parapet	2.5	Type of parapet	Guide Rail		
Angle of skew of flow	20				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	93	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream			Floodplain		N Value
Bottom width (ft)	106	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Riffs or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID YB 8910	
Spans		Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	4.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	26
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information			
		Structure ID YB 8930			
Spans		Piers			
Geometry	Box	Number	0		
Width	26	Shape			
Height	4.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	36		
Distance from low chord to deck	2	Shape of abutments	Vertical		
Distance from deck to parapet	3	Type of parapet	Concrete Barrier		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	35	Right	Light brush and trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth					

		Bridge Information	
		Structure ID YB 8981	
Spans		Piers	
Geometry	Box	Number	0
Width	9	Shape	
Height	8	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	145
Distance from low chord to deck	4	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Concrete Barrier
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Cultivated area	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	2.5				

		Bridge Information	
		Structure ID YB 8982	
Spans		Piers	
Geometry	Box	Number	0
Width	6	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	41.5
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, with trees and/or fences	Left	
Bank Geom. Horiz.	3	Right	Cultivated area	Right	
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Medium to dense brush	Left	
Bank Geom. Horiz.	4	Right	Medium to dense brush	Right	
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID YB 9005	
Spans		Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	32
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	60		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information	
		Structure ID YB 9006	
Spans		Piers	
Geometry	Other	Number	0
Width	105	Shape	
Height	7.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	17
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	10		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	73	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	83	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID YB 9065	
Spans		Piers	
Geometry	Arch	Number	3
Width	135	Shape	Triangular nose with 30 degree angle
Height	10.5	Width at bottom	7
Height where arch begins		Width	2
		Height at bottom	
		Length	23
Distance from low chord to deck	5	Shape of abutments	None
Distance from deck to parapet	2	Type of parapet	Other
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	120	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	110	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information			
		Structure ID YB 9130			
Spans		Piers			
Geometry	Box	Number	0		
Width	12	Shape			
Height	7.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	32		
Distance from low chord to deck	1	Shape of abutments	Vertical		
Distance from deck to parapet	3	Type of parapet	Guide Rail		
Angle of skew of flow	30				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	5				

		Bridge Information	
		Structure ID YB 9135	
Spans		Piers	
Geometry	Box	Number	0
Width	10	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	32
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	75		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

		Bridge Information	
		Structure ID YB 9197	
Spans		Piers	
Geometry	Other	Number	0
Width	138	Shape	
Height	14	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	30
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	145	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	10				
Downstream		Floodplain		N Value	
Bottom width (ft)	120	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

		Bridge Information	
		Structure ID YB 9197.2	
Spans		Piers	
Geometry	Other	Number	0
Width	30	Shape	
Height	9	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	30
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	30	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	30	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, with buildings	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	6				

		Bridge Information	
		Structure ID YB 9198	
Spans		Piers	
Geometry	Other	Number	0
Width	136	Shape	
Height	12	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	16
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	130	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	114	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	8				

		Bridge Information	
		Structure ID YB 9320	
Spans		Piers	
Geometry	Box	Number	0
Width	10	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	40
Distance from low chord to deck	2.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Concrete Barrier
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Lawn, with buildings	Left	
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

		Bridge Information			
		Structure ID YB 9441			
Spans		Piers			
Geometry	Box	Number	2		
Width	235	Shape	Elongated with semi-circular ends		
Height	26.5	Width at bottom			
Height where arch begins		Width	3		
		Height at bottom			
		Length	84		
Distance from low chord to deck	5.5	Shape of abutments	None		
Distance from deck to parapet	3	Type of parapet	Concrete Barrier		
Angle of skew of flow	0				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	95	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	8				
Downstream		Floodplain		N Value	
Bottom width (ft)	88	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	8				

		Bridge Information	
		Structure ID YB 9945	
Spans		Piers	
Geometry	Box	Number	0
Width	13.5	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	42
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	2	Type of parapet	Concrete Barrier
Angle of skew of flow	20		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	0	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

		Bridge Information	
		Structure ID YB 9455	
Spans		Piers	
Geometry	Box	Number	1
Width	136	Shape	Square nose
Height	17	Width at bottom	
Height where arch begins		Width	3
		Height at bottom	
		Length	42
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	0		

		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	115	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	121	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				

		Bridge Information					
		Structure ID YB 10105					
Spans		Piers					
Geometry	Box	Number	0				
Width	8.5	Shape					
Height	4	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	50				
Distance from low chord to deck	2.5	Shape of abutments	Vertical				
Distance from deck to parapet		Type of parapet					
Angle of skew of flow	0						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	11	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools		
Bank Geom. Vert.	1						
Bank Full Depth	6						
Downstream		Floodplain		N Value			
Bottom width (ft)	9	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	6						
		Bridge Information					
		Structure ID YB 10220					
Spans		Piers					
Geometry	Box	Number	0				
Width	15	Shape					
Height	7	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	39				
Distance from low chord to deck	1	Shape of abutments	None				
Distance from deck to parapet	2	Type of parapet	Guide Rail				
Angle of skew of flow	30						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	17	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	8						
Downstream		Floodplain		N Value			
Bottom width (ft)	21	Left	Lawn, with buildings	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Impervious with structures, commercial	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	7						

CULVERTS

Culvert Information
Culvert ID 5821

Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	45
Material	RC	Headwall to pipe	0
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	80
Entrance Design	Square cut end of pipe (straight end)		
Depth barrel is filled	0		

Dimensions			
Width		Length	71
Bottom width		Cover to top of deck	5
Greatest width			
Diameter	7		
Height			

Stream Channel Characteristics
Upstream

		Floodplain		N Value	
Bottom width (ft)	5.5	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Downstream

		Floodplain		N Value	
Bottom width (ft)	15	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID 5825

Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0.5		

Dimensions			
Width	6	Length	35
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter			
Height	4.5		

Stream Channel Characteristics
Upstream

		Floodplain		N Value	
Bottom width (ft)	9	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Downstream

		Floodplain		N Value	
Bottom width (ft)	4.5	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				

Spans		Bridge Information Structure ID CC 1010 Piers	
Geometry	Other	Number	0
Width	208	Shape	
Height	16	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	18
Distance from low chord to deck	1	Shape of abutments	Sloping
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	10		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	156	Floodplain	
Bank Geom. Horiz.	3	Left	Cultivated area
Bank Geom. Vert.	1	Right	Light brush and trees
Bank Full Depth	7		
Downstream		Floodplain	
Bottom width (ft)	156	Left	Lawn, with trees and/or fences
Bank Geom. Horiz.	3	Right	Cultivated area
Bank Geom. Vert.	1		
Bank Full Depth	6		
N Value		N Value	
Left	Streams in wide valleys	Left	Streams in wide valleys
Right	Clean and Straight - Some Stones and Weeds	Right	Clean and Straight - Some Stones and Weeds
Spans		Bridge Information Structure ID CC 1020 Piers	
Geometry	Box	Number	2
Width	236	Shape	Elongated with semi-circular ends
Height	22	Width at bottom	5
Height where arch begins		Width	5
		Height at bottom	
		Length	33
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	2	Type of parapet	Concrete Barrier
Angle of skew of flow	10		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	190	Floodplain	
Bank Geom. Horiz.	3	Left	Lawn, short grass
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	7		
Downstream		Floodplain	
Bottom width (ft)	190	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	7		
N Value		N Value	
Left	Streams in wide valleys	Left	Streams in wide valleys
Right	Clean and Straight - Some Stones and Weeds	Right	Clean and Straight - Some Stones and Weeds

Spans		Bridge Information Structure ID CC 1125	
		Piers	
Geometry	Box	Number	0
Width	46	Shape	
Height	13	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	50
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	3.5	Type of parapet	Concrete Barrier
Angle of skew of flow	0		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	25	Left	Scattered brush, heavy weeds
Bank Geom. Horiz.	3		
Bank Geom. Vert.	1	Right	Cultivated area
Bank Full Depth	6		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - Some Stones and Weeds
Downstream		Floodplain	
Bottom width (ft)	27	Left	Lawn, with trees and/or fences
Bank Geom. Horiz.	4		
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - Some Stones and Weeds
		Bridge Information Structure ID CC 1030	
		Piers	
Geometry	Box	Number	1
Width	210	Shape	Elongated with semi-circular ends
Height	18	Width at bottom	4
Height where arch begins		Width	5
		Height at bottom	14.5
		Length	36
Distance from low chord to deck	5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	10		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	142	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3		
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	10		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - Some Stones and Weeds
Downstream		Floodplain	
Bottom width (ft)	142	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3		
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	9		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - Some Stones and Weeds

Spans		Bridge Information Structure ID CC 1040 Piers	
Geometry	Box	Number	4
Width	335	Shape	Triangular nose with 60 degree angle
Height	10	Width at bottom	
Height where arch begins		Width	4
		Height at bottom	
		Length	43
Distance from low chord to deck	4	Shape of abutments	Sloping
Distance from deck to parapet	4	Type of parapet	Concrete Barrier
Angle of skew of flow	10		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	210	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Left Streams in wide valleys
Bank Geom. Vert.	1	Right	Right Clean and Straight - Some Stones and Weeds
Bank Full Depth	6		
Downstream		Floodplain	N Value
Bottom width (ft)	210	Left	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	7.5		
Spans		Bridge Information Structure ID CC 1150 Piers	
Geometry	Box	Number	0
Width	18	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		
Upstream		Stream Channel Characteristics	
Bottom width (ft)		Floodplain	N Value
Bank Geom. Horiz.		Left	Left Streams in wide valleys
Bank Geom. Vert.		Right	Right Sluggish Reaches - Weedy - Deep Pools
Bank Full Depth			
Downstream		Floodplain	N Value
Bottom width (ft)	18	Left	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	5.5		

Angle of Skew					
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe		0	
Entrance Design	Socket end of pipe (flared end)				
Depth barrel is filled	0.5				
Dimensions					
Width		Length	74		
Bottom width		Cover to top of deck	3		
Greatest width					
Diameter					
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Spans		Bridge Information			
		Structure ID CC 1710			
		Piers			
Geometry	Box	Number	0		
Width	12	Shape			
Height	8	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	23		
Distance from low chord to deck	1.5	Shape of abutments	None		
Distance from deck to parapet	0.5	Type of parapet	Guide Rail		
Angle of skew of flow	45				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information			
Culvert ID CC 1950			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	50
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter	5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	5	Left	Medium to dense brush Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream		Floodplain	N Value
Bottom width (ft)	12	Left	Medium to dense brush Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		

Culvert Information			
Culvert ID CC 1965			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	HDPE	Headwall to pipe	
Entrance Type		Stream to pipe	45
Entrance Design			
Depth barrel is filled	0		
Dimensions			
Width		Length	40
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter	2.5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	12	Left	Pasture or field with no brush Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Pasture or field with no brush Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1		
Bank Full Depth	2.5		
Downstream		Floodplain	N Value
Bottom width (ft)		Left	Lawn, with trees and/or fences Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth			

Culvert Information									
Culvert ID CC 1966									
Angle of Skew		Barrel Characteristics							
Geometry	Circular	Headwall to embankment							
Material	CM	Headwall to pipe							
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60						
Entrance Design	Projected from fill (no headwall)								
Depth barrel is filled	0								
Dimensions									
Width		Length	61						
Bottom width		Cover to top of deck	2						
Greatest width									
Diameter	4								
Height									
Stream Channel Characteristics									
Upstream									
Bottom width (ft)	8	Floodplain		N Value					
		Left	Scattered brush, heavy weeds	Left	Streams in wide valleys				
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools				
Bank Geom. Vert.	1								
Bank Full Depth	5								
Downstream		Floodplain		N Value					
Bottom width (ft)	12	Left	Lawn, short grass	Left	Streams in wide valleys				
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds				
Bank Geom. Vert.	1								
Bank Full Depth	4								
		Bridge Information							
		Structure ID CC 3110							
Spans		Piers							
Geometry	Box	Number	2						
Width		Shape	Elongated with semi-circular ends						
Height		Width at bottom							
Height where arch begins		Width							
		Height at bottom							
		Length	38						
Distance from low chord to deck		Shape of abutments	None						
Distance from deck to parapet		Type of parapet	Other						
Angle of skew of flow									
		Stream Channel Characteristics							
Upstream		Floodplain		N Value					
Bottom width (ft)	200	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys				
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds				
Bank Geom. Vert.	1								
Bank Full Depth	5								
Downstream		Floodplain		N Value					
Bottom width (ft)	185	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys				
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - Some Stones and Weeds				
Bank Geom. Vert.	1								
Bank Full Depth	5.5								

Culvert Information			
Culvert ID CC 4110			
Angle of Skew		Barrel Characteristics	
Geometry	Low Profile Arch	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	End section conformed to slope		
Depth barrel is filled	0		
Dimensions			
Width		Length	36
Bottom width	9	Cover to top of deck	3.5
Greatest width	13		
Diameter			
Height	7		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	19	Left	Lawn, short grass Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	9		
Downstream		Floodplain	N Value
Bottom width (ft)	18	Left	Lawn, short grass Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	6		
Culvert Information			
Culvert ID CC 4120			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	0
Material	RC	Headwall to pipe	0
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	0
Entrance Design	Socket end of pipe (grooved end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	72
Bottom width		Cover to top of deck	5.5
Greatest width			
Diameter	590		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)		Left	Scattered brush, heavy weeds Left Streams in wide valleys
Bank Geom. Horiz.		Right	Light brush and trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.			
Bank Full Depth			
Downstream		Floodplain	N Value
Bottom width (ft)	10	Left	Lawn, with buildings Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	7		

Culvert Information			
Culvert ID CC 4130			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	20
Material	RC	Headwall to pipe	30
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	20
Entrance Design	Socket end of pipe (grooved end)		
Depth barrel is filled	0.5		
Dimensions			
Width		Length	30
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	4.5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	9	Left	Scattered brush, heavy weeds
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
Downstream		Floodplain	
Bottom width (ft)	9	Left	Lawn, with trees and/or fences
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
N Value			
Left		Streams in wide valleys	
Right		Sluggish Reaches - Weedy - Deep Pools	

Culvert Information			
Culvert ID CC 4160			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	45
Entrance Design	Socket end of pipe (flared end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	41
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter	2		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	5	Left	Scattered brush, heavy weeds
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream		Floodplain	
Bottom width (ft)	5	Left	Scattered brush, heavy weeds
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds
Bank Geom. Vert.	1		
Bank Full Depth	3		
N Value			
Left		Streams in wide valleys	
Right		Sluggish Reaches - Weedy - Deep Pools	

Left		Streams in wide valleys	
Right		Very Weedy - Deep Pools - Floodways with Heavy Stands of	

Culvert Information				
Culvert ID CC 6255				
Barrel Characteristics				
Angle of Skew				
Geometry	Circular	Headwall to embankment		
Material	RC	Headwall to pipe		
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	20	
Entrance Design	Socket end of pipe (flared end)			
Depth barrel is filled	0			
Dimensions				
Width		Length	67	
Bottom width		Cover to top of deck	6	
Greatest width				
Diameter	2			
Height				
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	3	Floodplain		N Value
		Left	Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right Clean and Winding - Ineffective slopes and sections
Bank Geom. Vert.	1			
Bank Full Depth	4.5			
Downstream				
Bottom width (ft)	6.5	Floodplain		N Value
		Left	Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1			
Bank Full Depth	4			

Culvert Information				
Culvert ID CC 6310				
Barrel Characteristics				
Angle of Skew				
Geometry	Circular	Headwall to embankment		
Material	RC	Headwall to pipe		
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	10	
Entrance Design	Socket end of pipe (flared end)			
Depth barrel is filled	0			
Dimensions				
Width		Length	88	
Bottom width		Cover to top of deck	3	
Greatest width				
Diameter	2			
Height				
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	3	Floodplain		N Value
		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	2			
Downstream				
Bottom width (ft)	13	Floodplain		N Value
		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	9			

Culvert Information					
Culvert ID CC 9810					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	2				
Dimensions					
Width		Length		39.5	
Bottom width		Cover to top of deck		2.5	
Greatest width					
Diameter	4.5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
		Bridge Information			
		Structure ID CC 9910			
Spans		Piers			
Geometry	Box	Number		0	
Width	10	Shape			
Height	8.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length		27.5	
Distance from low chord to deck	0.5	Shape of abutments		Vertical	
Distance from deck to parapet	0.5	Type of parapet		Guide Rail	
Angle of skew of flow					
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	8				

Culvert Information					
Culvert ID CC 9911					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled					
Dimensions					
Width		Length	52		
Bottom width		Cover to top of deck	3		
Greatest width					
Diameter					
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	8				
Downstream		Floodplain		N Value	
Bottom width (ft)	6.5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Bridge Information					
Structure ID CC 10005					
Spans		Piers			
Geometry	Box	Number	3		
Width	282	Shape	Circular		
Height	12	Width at bottom	3		
Height where arch begins		Width	3		
		Height at bottom			
		Length	32		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet	3	Type of parapet	Concrete Barrier		
Angle of skew of flow	30				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	242	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	242	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

Spans		Bridge Information	
		Structure ID CC 10010	
		Piers	
Geometry	Box	Number	0
Width	26	Shape	
Height	6.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	34
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet	3.5	Type of parapet	Concrete Barrier
Angle of skew of flow	30		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream		Floodplain	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		Culvert Information	
		Culvert ID CC 10020	
Angle of Skew		Barrel Characteristics	
Geometry	Squash Pipe	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width	5.5	Length	60
Bottom width		Cover to top of deck	1
Greatest width			
Diameter			
Height	4.5		
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	5	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Downstream		Floodplain	
Bottom width (ft)	10	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds

Culvert Information
Culvert ID CC 10035

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe		45	
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	61		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter	4				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	3	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID CC 10045

Angle of Skew		Barrel Characteristics			
Geometry	Squash Pipe	Headwall to embankment	20		
Material	CM	Headwall to pipe	30		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	6.5	Length	40		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter					
Height	5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

Culvert Information
Culvert ID CC 10060

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	5.5	Length	60		
Bottom width		Cover to top of deck	4.5		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	7	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream					
Bottom width (ft)		Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth					

Culvert Information
Culvert ID CC 10088

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	30		
Material	CM	Headwall to pipe	0		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	30		
Entrance Design	Socket end of pipe (grooved end)				
Depth barrel is filled	0				
Dimensions					
Width	12	Length	50		
Bottom width		Cover to top of deck	5		
Greatest width					
Diameter					
Height	5.5				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	8	Floodplain		N Value	
		Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream					
Bottom width (ft)		Floodplain		N Value	
		Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Scattered brush, heavy weeds	Right	
Bank Geom. Vert.					
Bank Full Depth					

		<div>Bridge Information</div> <div>Structure ID CC 10089</div> <div>Piers</div>			
Geometry	Box	Number	3		
Width	340	Shape	Elongated with semi-circular ends		
Height	25+	Width at bottom	3		
Height where arch begins		Width	3		
		Height at bottom			
		Length	34		
Distance from low chord to deck	0.5	Shape of abutments	None		
Distance from deck to parapet	2.5	Type of parapet	Guide Rail		
Angle of skew of flow	0				
		<div>Stream Channel Characteristics</div>			
<div>Upstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	230	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	9				
<div>Downstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	230	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
		<div>Bridge Information</div> <div>Structure ID CC 10090</div> <div>Piers</div>			
Geometry	Box	Number	0		
Width	27	Shape			
Height	10.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	29		
Distance from low chord to deck	2	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet			
Angle of skew of flow	0				
		<div>Stream Channel Characteristics</div>			
<div>Upstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	25	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	9				
<div>Downstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	20	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	11				

Spans		Bridge Information Structure ID CC 10122 Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	3.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		
Upstream		Stream Channel Characteristics	
Floodplain		N Value	
Bottom width (ft)	9	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	4.5		
Downstream		Floodplain	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Culvert Information Culvert ID CC 10127		Barrel Characteristics	
Angle of Skew		N Value	
Geometry	Arch	Left	Streams in wide valleys
Material	CM	Right	Clean and Winding - Some Stones and Weeds
Entrance Type	Corrugated Metal Pipe or Pipe-Arch		
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions		Floodplain	
Width		Left	Medium to dense brush with scattered trees
Bottom width	13.5	Right	Medium to dense brush with scattered trees
Greatest width			
Diameter			
Height	7.5		
Stream Channel Characteristics		N Value	
Upstream		Left	Streams in wide valleys
Bottom width (ft)	12	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Horiz.	2		
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream		Floodplain	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	3.5		

Culvert Information			
Culvert ID CC 10185			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0
Entrance Design	Square cut end of pipe (straight end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	40
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream		Floodplain	N Value
Bottom width (ft)	11	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	3.5		

Culvert Information			
Culvert ID CC 10190			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	46
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream		Floodplain	N Value
Bottom width (ft)	5	Left	Lawn, with buildings Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	4.5		

Culvert Information
Culvert ID CC 10123

Angle of Skew		Barrel Characteristics		
Geometry	Box	Headwall to embankment	30	
Material	RC	Headwall to pipe	0	
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	45	
Entrance Design	Square-edge at crown			
Depth barrel is filled	0			
Dimensions				
Width	8	Length	36	
Bottom width		Cover to top of deck	2.5	
Greatest width				
Diameter				
Height	3			
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1			
Bank Full Depth	3.5			
Downstream		Floodplain		N Value
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right
Bank Geom. Vert.	1			
Bank Full Depth	3.5			

Culvert Information
Culvert ID CC 10126

Angle of Skew		Barrel Characteristics		
Geometry	Elliptical	Headwall to embankment		
Material	CI	Headwall to pipe		
Entrance Type		Stream to pipe	45	
Entrance Design				
Depth barrel is filled	0			
Dimensions				
Width	5.5	Length	26	
Bottom width		Cover to top of deck	3	
Greatest width				
Diameter				
Height	5			
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.				
Bank Full Depth				
Downstream		Floodplain		N Value
Bottom width (ft)	8	Left	Lawn, short grass	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	1			

Spans		Bridge Information	
		Structure ID CC 10128	
		Piers	
Geometry	Box	Number	0
Width	12.5	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	45		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream		Floodplain	
Bottom width (ft)	12	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	6		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		Culvert Information	
		Culvert ID CC 10170	
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	45
Entrance Design	Socket end of pipe (flared end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	40
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter	5.5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)		Left	
Bank Geom. Horiz.		Right	
Bank Geom. Vert.			
Bank Full Depth			
Downstream		Floodplain	
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Sluggish Reaches - Weedy - Deep Pools

Culvert Information					
Culvert ID CC 10186					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		45	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled					
Dimensions					
Width		Length		40	
Bottom width		Cover to top of deck		1.5	
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Bridge Information					
Structure ID CC 10210					
Spans		Piers			
Geometry	Box	Number		3	
Width	325	Shape		Circular	
Height	25+	Width at bottom		3	
Height where arch begins		Width		3	
		Height at bottom			
		Length		105	
Distance from low chord to deck	4.5	Shape of abutments		None	
Distance from deck to parapet	4	Type of parapet		Concrete Barrier	
Angle of skew of flow	45				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	275	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	275	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6.5				

Culvert Information
Culvert ID CC 10223

Angle of Skew		Barrel Characteristics				
Geometry	Elliptical	Headwall to embankment				
Material	CM	Headwall to pipe				
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		45		
Entrance Design	Projected from fill (no headwall)					
Depth barrel is filled	0					
Dimensions						
Width	6.5	Length		40		
Bottom width		Cover to top of deck		5		
Greatest width						
Diameter						
Height	4					
Stream Channel Characteristics						
Upstream						
		Floodplain		N Value		
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys	
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds	
Bank Geom. Vert.						
Bank Full Depth						
Downstream						
Bottom width (ft)		14	Floodplain		N Value	
			Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.		3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.		1				
Bank Full Depth		5				

Culvert Information
Culvert ID CC 10231

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment		0	
Material	RC	Headwall to pipe		0	
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe		45	
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	14	Length		45	
Bottom width		Cover to top of deck		2.5	
Greatest width					
Diameter					
Height	6.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

Culvert Information
Culvert ID CC 10241

Angle of Skew					
Geometry	Circular	Headwall to embankment	60		
Material	RC	Headwall to pipe	0		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	0		
Entrance Design	Socket end of pipe (grooved end)				
Depth barrel is filled	0.5				
Dimensions					
Width		Length	34		
Bottom width		Cover to top of deck	2.5		
Greatest width					
Diameter	2.5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	4	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2.5				
Downstream		Floodplain		N Value	
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					

Culvert Information
Culvert ID CC 10243

Angle of Skew		Barrel Characteristics			
Geometry	Arch	Headwall to embankment	0		
Material	RC	Headwall to pipe			
Entrance Type		Stream to pipe	30		
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length	28		
Bottom width	10	Cover to top of deck	2		
Greatest width					
Diameter					
Height	5.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8.5	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

Spans

Number	0
Shape	
Width at bottom	
Width	
Height at bottom	
Length	38
Shape of abutments	None
Type of parapet	Concrete Barrier

Stream Channel Characteristics

Upstream

Bottom width (ft)	11
Bank Geom. Horiz.	3
Bank Geom. Vert.	1
Bank Full Depth	3

Downstream

Bottom width (ft)	7
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	4

Floodplain

Left	Lawn, with trees and/or fences
Right	Lawn, with trees and/or fences

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Stones and Weeds

Floodplain

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Stones and Weeds

Culvert Information
Culvert ID CC 10247

Angle of Skew

Geometry	Box
Material	RC
Entrance Type	Wingwalls at 10 to 25 degrees to Barrel
Entrance Design	Square-edge at crown
Depth barrel is filled	0

Dimensions

Width	10
Bottom width	
Greatest width	
Diameter	
Height	4

Barrel Characteristics

Headwall to embankment	45
Headwall to pipe	
Stream to pipe	

Length	22
Cover to top of deck	1.5

Stream Channel Characteristics

Upstream

Bottom width (ft)	8
Bank Geom. Horiz.	1
Bank Geom. Vert.	1
Bank Full Depth	5

Downstream

Bottom width (ft)	6
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	3.5

Floodplain

Left	Medium to dense brush with scattered trees
Right	Paved or impervious

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Pools and Shoals

Floodplain

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Pools and Shoals

Culvert Information
Culvert ID CC 11210

Angle of Skew		Barrel Characteristics		
Geometry	Box	Headwall to embankment	0	
Material	RC	Headwall to pipe	0	
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	0	
Entrance Design	Square-edge at crown			
Depth barrel is filled	0			
Dimensions				
Width	17.5	Length		
Bottom width		Cover to top of deck	25+	
Greatest width				
Diameter				
Height	4			
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)	6	Left	Lawn, short grass	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	4			
Downstream		Floodplain		N Value
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right
Bank Geom. Vert.	1			
Bank Full Depth				

Culvert Information
Culvert ID CC 11211

Angle of Skew		Barrel Characteristics		
Geometry	Arch	Headwall to embankment	30	
Material	RC	Headwall to pipe	0	
Entrance Type	Wingwalls at 10 to 25 degrees to Barrel	Stream to pipe	30	
Entrance Design	Square-edge at crown			
Depth barrel is filled	0			
Dimensions				
Width	17.5	Length	38	
Bottom width		Cover to top of deck		
Greatest width				
Diameter				
Height	7.5			
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)	10.5	Left	Scattered brush, heavy weeds	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	6			
Downstream		Floodplain		N Value
Bottom width (ft)	11.5	Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	5			

Culvert Information			
Culvert ID CC 11470			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Mitered to conform to slope		
Depth barrel is filled	0		
Dimensions			
Width		Length	61
Bottom width		Cover to top of deck	7
Greatest width			
Diameter	4		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)		Left	Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			
Downstream		Floodplain	N Value
Bottom width (ft)	8	Left	Left Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	2	Right	Right Medium to dense brush with scattered trees Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	2		
Bridge Information			
Structure ID CC 11485			
Spans		Piers	
Geometry	Box	Number	3
Width	307	Shape	Elongated with semi-circular ends
Height	15.5	Width at bottom	4
Height where arch begins		Width	4
		Height at bottom	
		Length	45
Distance from low chord to deck	4	Shape of abutments	None
Distance from deck to parapet	2.5	Type of parapet	Concrete Barrier
Angle of skew of flow	15		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	216	Floodplain	N Value
		Left	Left Lawn, with buildings Streams in wide valleys
Bank Geom. Horiz.	2	Right	Right Paved or impervious Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream		Floodplain	N Value
Bottom width (ft)	216	Left	Left Lawn, with buildings Streams in wide valleys
Bank Geom. Horiz.	3	Right	Right Lawn, with buildings Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1		
Bank Full Depth	5		

Culvert Information
Culvert ID CC 11630

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	42		
Bottom width		Cover to top of deck	0.5		
Greatest width					
Diameter	5.5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)		Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID CC 11640

Angle of Skew		Barrel Characteristics			
Geometry	Squash Pipe	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	5	Length	38		
Bottom width		Cover to top of deck	2.5		
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	7	Floodplain		N Value	
		Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream					
Bottom width (ft)	13	Floodplain		N Value	
		Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	1.5				

Culvert Information
Culvert ID CC 11650

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	1 foot				
Dimensions					
Width		Length	114		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	2.5				
Height					
Stream Channel Characteristics					
Upstream					
		Floodplain		N Value	
Bottom width (ft)	14	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream					
		Floodplain		N Value	
Bottom width (ft)	17	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	6.5				

Culvert Information
Culvert ID CC 11665

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	56		
Bottom width		Cover to top of deck	3.5		
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream					
		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream					
		Floodplain		N Value	
Bottom width (ft)	12	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Light brush and trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	1				

Culvert Information		Culvert ID CC 11999			
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	58		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter	6				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, with buildings	Left	
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5				
Bridge Information					
Structure ID CC 12000					
Spans		Piers			
Geometry	Box	Number	3		
Width	256	Shape	Triangular nose with 30 degree angle		
Height	15	Width at bottom	3		
Height where arch begins		Width	3		
		Height at bottom			
		Length	43		
Distance from low chord to deck	2.5	Shape of abutments	Vertical		
Distance from deck to parapet	4	Type of parapet	Guide Rail		
Angle of skew of flow	15				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	207	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	207	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Spans

Shape of abutments	None
Type of parapet	Concrete Barrier

Bottom width (ft)	240
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	5.5

Bottom width (ft)	240
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	5.5

Left	Medium to dense brush with scattered trees
Right	Lawn, with trees and/or fences

Left	Streams in wide valleys
Right	Clean and Straight - No Rifts or Pools

Left	Medium to dense brush with scattered trees
Right	Paved or impervious

Left	Streams in wide valleys
Right	Clean and Straight - No Rifts or Pools

Geometry	Circular
Material	CM
Entrance Type	Corrugated Metal Pipe or Pipe-Arch
Entrance Design	Projected from fill (no headwall)
Depth barrel is filled	0.5

Headwall to embankment	
Headwall to pipe	
Stream to pipe	0

Width		Length	49
Bottom width		Cover to top of deck	2
Greatest width			
Diameter	4		
Height			

Bottom width (ft)	13
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	5

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

Left

Right

Bottom width (ft)	12
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	5.5

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

Left

Right

Spans

Number	0
Shape	
Width at bottom	
Width	
Height at bottom	
Length	37
Shape of abutments	None
Type of parapet	Guide Rail

Stream Channel Characteristics

Upstream

Bottom width (ft)	13.5
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	5

Floodplain

Left	Paved or impervious
Right	Lawn, with buildings

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Stones and Weeds

Downstream

Bottom width (ft)	14
Bank Geom. Horiz.	3.1
Bank Geom. Vert.	1
Bank Full Depth	4.5

Floodplain

Left	Lawn, with trees and/or fences
Right	Lawn, with trees and/or fences

N Value

Left	Streams in wide valleys
Right	Clean and Straight - Some Stones and Weeds

Culvert Information
Culvert ID CC 12102

Angle of Skew

Geometry	Box
Material	RC
Entrance Type	Headwall Parallel to E wingwalls)
Entrance Design	Square-edge at crown
Depth barrel is filled	0

Barrel Characteristics

Headwall to embankment	
Headwall to pipe	
Stream to pipe	60

Dimensions

Width	26.5	Length	76.5
Bottom width		Cover to top of deck	2
Greatest width			
Diameter			
Height	5		

Stream Channel Characteristics

Upstream

Bottom width (ft)	13.5
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	4

Floodplain

Left	Lawn, with buildings
Right	Paved or impervious

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Stones and Weeds

Downstream

Bottom width (ft)	15
Bank Geom. Horiz.	2
Bank Geom. Vert.	1
Bank Full Depth	5.5

Floodplain

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Stones and Weeds

		Bridge Information	
		Structure ID CC 12110	
Spans		Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	36
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	15		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
Downstream		Floodplain	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		Culvert Information	
		Culvert ID CC 12111	
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	30
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0.5		
Dimensions		Barrel Characteristics	
Width	14	Length	112
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter			
Height	6		
Stream Channel Characteristics		Floodplain	
Upstream		Floodplain	
Bottom width (ft)	11	Left	Lawn, with trees and/or fences
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	2.5		
Downstream		Floodplain	
Bottom width (ft)	15	Left	Lawn, with buildings
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences
Bank Geom. Vert.	1		
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds

Culvert Information
Culvert ID CC 12119

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	5.5	Length	58		
Bottom width		Cover to top of deck	4.5		
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID CC 12120

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment	20		
Material	RC	Headwall to pipe	0		
Entrance Type	Headwall Parallel to Embankment (no wingwalls)	Stream to pipe	20		
Entrance Design	Square-edged on three edges				
Depth barrel is filled	0				
Dimensions					
Width	7	Length	61		
Bottom width		Cover to top of deck	8		
Greatest width					
Diameter					
Height	4.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information				
Culvert ID CC 12125				
Barrel Characteristics				
Angle of Skew				
Geometry	Elliptical	Headwall to embankment		
Material	RC	Headwall to pipe		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe		
Entrance Design	Square cut end of pipe (straight end)			
Depth barrel is filled	0			
Dimensions				
Width	8	Length	87	
Bottom width		Cover to top of deck	3	
Greatest width				
Diameter				
Height	5			
Stream Channel Characteristics				
Upstream				
Bottom width (ft)		Floodplain Left		N Value Left
Bank Geom. Horiz.		Right		Right
Bank Geom. Vert.	1			
Bank Full Depth				
Downstream				
Bottom width (ft)	12	Floodplain Left		N Value Left
		Scattered brush, heavy weeds		
Bank Geom. Horiz.	2	Right		Right
		Scattered brush, heavy weeds		
Bank Geom. Vert.	1			
Bank Full Depth	6.5			

Culvert Information				
Culvert ID CC 12135				
Barrel Characteristics				
Angle of Skew				
Geometry	Box	Headwall to embankment	0	
Material	RC	Headwall to pipe	0	
Entrance Type	Headwall Parallel to Embankment (no wingwalls)		Stream to pipe 0	
Entrance Design	Square-edged on three edges			
Depth barrel is filled	0			
Dimensions				
Width	7	Length	71	
Bottom width		Cover to top of deck	3.5	
Greatest width				
Diameter				
Height	4			
Stream Channel Characteristics				
Upstream				
Bottom width (ft)		Floodplain Left		N Value Left
Bank Geom. Horiz.		Right		Right
Bank Geom. Vert.				
Bank Full Depth				
Downstream				
Bottom width (ft)	11	Floodplain Left		N Value Left
		Lawn, with buildings		Streams in wide valleys
Bank Geom. Horiz.	4	Right		Right
		Lawn, with buildings		Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	4			

Spans		Bridge Information Structure ID CC 12136	
		Piers	
Geometry	Box	Number	0
Width	12.5	Shape	
Height	3.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	50
Distance from low chord to deck	2	Shape of abutments	
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		
Upstream		Stream Channel Characteristics	
		Floodplain	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Downstream		Floodplain	
Bottom width (ft)	8.5	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - Some Stones and Weeds
Spans		Bridge Information Structure ID DR 5101	
		Piers	
Geometry	Box	Number	0
Width	16.5	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	34
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	45		
Upstream		Stream Channel Characteristics	
		Floodplain	
Bottom width (ft)	10	Left	Lawn, short grass
Bank Geom. Horiz.	4	Right	Lawn, short grass
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Downstream		Floodplain	
Bottom width (ft)		Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees
Bank Geom. Vert.			
Bank Full Depth			
		N Value	
		Left	Streams in wide valleys
		Right	Sluggish Reaches - Weedy - Deep Pools
		N Value	
		Left	Streams in wide valleys
		Right	Sluggish Reaches - Weedy - Deep Pools

Spans		Bridge Information Structure ID DR 5110 Piers			
Geometry	Box	Number	0		
Width	25	Shape			
Height	5.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	29		
Distance from low chord to deck	1	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	45				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	20	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				
Spans		Bridge Information Structure ID DR 5120 Piers			
Geometry	Box	Number	0		
Width	30	Shape			
Height	6	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	26		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	0				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Spans		Bridge Information Structure ID DR 5310	
		Piers	
Geometry	Box	Number	0
Width	21	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	29
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet	2.5	Type of parapet	Guide Rail
Angle of skew of flow	10		
		Stream Channel Characteristics	
Upstream		Floodplain	
		N Value	
Bottom width (ft)	13	Left	Lawn, with buildings Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1		
Bank Full Depth	4.5		
Downstream		Floodplain	
		N Value	
Bottom width (ft)	11	Left	Lawn, with buildings Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4		
		Barrel Characteristics	
Culvert Information Culvert ID DR 5410		Angle of Skew	
		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	15
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions		Stream Channel Characteristics	
		Upstream	
Width	7	Floodplain	
Bottom width		N Value	
Greatest width		Left	Medium to dense brush with scattered trees Streams in wide valleys
Diameter		Right	Medium to dense brush with scattered trees Clean and Straight - Some Stones and Weeds
Height	4.5		
Stream Channel Characteristics		Downstream	
		Floodplain	
		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream		Floodplain	
		N Value	
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Clean and Winding - More Stones
Bank Geom. Vert.	1		
Bank Full Depth	3		

Spans		Bridge Information Structure ID DR 5420					
		Piers					
Geometry	Box	Number	1				
Width	44	Shape	Triangular nose with 60 degree angle				
Height	5.5	Width at bottom	5				
Height where arch begins		Width	3				
		Height at bottom	2				
		Length	28				
Distance from low chord to deck	1	Shape of abutments	None				
Distance from deck to parapet	3	Type of parapet	Other				
Angle of skew of flow	20						
Upstream		Stream Channel Characteristics					
		Floodplain		N Value			
Bottom width (ft)	9	Left	Lawn, with buildings	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones		
Bank Geom. Vert.	1						
Bank Full Depth	3.5						
Downstream		Floodplain		N Value			
Bottom width (ft)	39	Left	Lawn, with buildings	Left	Streams in wide valleys		
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	5.5						
Spans		Bridge Information Structure ID DR 5430					
		Piers					
Geometry	Box	Number	0				
Width	9.5	Shape					
Height	4	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	21				
Distance from low chord to deck	1.5	Shape of abutments	None				
Distance from deck to parapet		Type of parapet	Concrete Barrier				
Angle of skew of flow	30						
Upstream		Stream Channel Characteristics					
		Floodplain		N Value			
Bottom width (ft)	11	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones		
Bank Geom. Vert.	1						
Bank Full Depth	4						
Downstream		Floodplain		N Value			
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	4.5						

Spans

Shape of abutments	None
Type of parapet	Guide Rail

Floodplain		N Value	
Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Right	Paved or impervious	Right	Clean and Winding - Some Stones and Weeds

Floodplain		N Value
Left	Medium to dense brush with scattered trees	Left
Right	Medium to dense brush with scattered trees	Right

Culvert Information			
Culvert ID DR 5611			
Angle of Skew		Barrel Characteristics	
Geometry	Box	Headwall to embankment	10
Material	PVC	Headwall to pipe	0
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	10
Entrance Design	Square-edge at crown		
Depth barrel is filled	0		
Dimensions			
Width	7	Length	60
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter			
Height	4		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream		Floodplain	N Value
Bottom width (ft)		Left	Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			

Culvert Information			
Culvert ID DR 5710			
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	10
Material	CM	Headwall to pipe	30
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width	6	Length	33
Bottom width		Cover to top of deck	1
Greatest width			
Diameter			
Height	4		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	9	Left	Lawn, short grass Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream		Floodplain	N Value
Bottom width (ft)	10	Left	Lawn, short grass Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		

Culvert Information			
Culvert ID DR 5720			
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width	6	Length	38
Bottom width		Cover to top of deck	1
Greatest width			
Diameter			
Height	3.5		
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	7	Left	Lawn, with buildings
Bank Geom. Horiz.	4	Right	Lawn, short grass
Bank Geom. Vert.	1		
Bank Full Depth	2		
Downstream		Floodplain	
Bottom width (ft)		Left	
Bank Geom. Horiz.		Right	
Bank Geom. Vert.			
Bank Full Depth			
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - More Stones

Culvert Information			
Culvert ID DR 5822			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	45
Material	RC	Headwall to pipe	0
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	70
Entrance Design	Square cut end of pipe (straight end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	66
Bottom width		Cover to top of deck	4
Greatest width			
Diameter	7		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	8	Left	Lawn, with buildings
Bank Geom. Horiz.	4	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	2.5		
Downstream		Floodplain	
Bottom width (ft)	15	Left	Lawn, with buildings
Bank Geom. Horiz.	4	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	4.5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds

Spans		Bridge Information Structure ID FR 6210			
		Piers			
Geometry	Other	Number	0		
Width	16.5	Shape			
Height	6.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	11		
Distance from low chord to deck	1	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Other		
Angle of skew of flow	10				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	15.5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Culvert Information Culvert ID FR 6310		Barrel Characteristics			
Angle of Skew					
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	5	Length	40		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter					
Height	3.8				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	5.5	Left	Light brush and trees	Left	
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	4.5	Left	Light brush and trees	Left	
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information									
Culvert ID FR 6410									
Angle of Skew		Barrel Characteristics							
Geometry	Squash Pipe	Headwall to embankment							
Material	CM	Headwall to pipe							
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0					
Entrance Design	Projected from fill (no headwall)								
Depth barrel is filled	0								
Dimensions									
Width	5.5	Length		39					
Bottom width		Cover to top of deck		1					
Greatest width									
Diameter									
Height	3.7								
Stream Channel Characteristics									
Upstream									
Bottom width (ft)	10	Floodplain		N Value					
		Left	Lawn, with trees and/or fences	Left	Streams in wide valleys				
Bank Geom. Horiz.	4	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds				
Bank Geom. Vert.	1								
Bank Full Depth	4.5								
Downstream									
Bottom width (ft)	6	Floodplain		N Value					
		Left	Medium to dense brush	Left	Streams in wide valleys				
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds				
Bank Geom. Vert.	1								
Bank Full Depth	3.5								
		Bridge Information							
		Structure ID FR 6420							
Spans		Piers							
Geometry	Box	Number		0					
Width	13	Shape							
Height	4.5	Width at bottom							
Height where arch begins		Width							
		Height at bottom							
		Length		32					
Distance from low chord to deck	1.5	Shape of abutments		None					
Distance from deck to parapet		Type of parapet		Guide Rail					
Angle of skew of flow	45								
		Stream Channel Characteristics							
Upstream									
Bottom width (ft)	12.5	Floodplain		N Value					
		Left	Light brush and trees	Left	Streams in wide valleys				
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of				
Bank Geom. Vert.	1								
Bank Full Depth	5								
Downstream									
Bottom width (ft)	5.5	Floodplain		N Value					
		Left	Light brush and trees	Left	Streams in wide valleys				
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of				
Bank Geom. Vert.	1								
Bank Full Depth	5.5								

Culvert Information					
Culvert ID FR 6510					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe		20	
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length		40.5	
Bottom width		Cover to top of deck		1	
Greatest width					
Diameter	4				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	7.5	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	9.5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	2.5				

Culvert Information					
Culvert ID FR 6610					
Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	0		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	5	Length	47		
Bottom width		Cover to top of deck	2.5		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	4	Left	Medium to dense brush with scattered trees	Left	
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5				

Spans		Bridge Information Structure ID FR 6725			
		Piers			
Geometry	Arch	Number	0		
Width	8.5	Shape			
Height	6.3	Width at bottom			
Height where arch begins	3.3	Width			
		Height at bottom			
		Length	22.5		
Distance from low chord to deck	0.5	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	10				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

Culvert Information			
Culvert ID FR 6730			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	34.5
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream			
		Floodplain	N Value
Bottom width (ft)		Left	Lawn, with trees and/or fences
Bank Geom. Horiz.		Right	Cultivated area
Bank Geom. Vert.			
Bank Full Depth			
Downstream			
		Floodplain	N Value
Bottom width (ft)		Left	Scattered brush, heavy weeds
Bank Geom. Horiz.		Right	Scattered brush, heavy weeds
Bank Geom. Vert.			
Bank Full Depth			

Culvert Information			
Culvert ID FR 6735			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	10
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10
Entrance Design	Headwall or headwall and wingwalls		
Depth barrel is filled	square edge		
	0		
Dimensions			
Width		Length	25.5
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter	4		
Height			
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	10	Floodplain	N Value
		Left	Left
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		Right
Bank Full Depth	4.5		Light brush and trees
Downstream			
Bottom width (ft)	6.5	Floodplain	N Value
		Left	Left
Bank Geom. Horiz.	3	Right	Pasture or field with no brush
Bank Geom. Vert.	1		Right
Bank Full Depth	4.5		Cultivated area

Culvert Information					
Culvert ID FR 6805					
Angle of Skew			Barrel Characteristics		
Geometry	Elliptical		Headwall to embankment		
Material	CM		Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch		Stream to pipe	30	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	1				
Dimensions					
Width	9		Length	63	
Bottom width			Cover to top of deck	1.5	
Greatest width					
Diameter					
Height	5				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	5		Left	Scattered brush, heavy weeds	Left Streams in wide valleys
Bank Geom. Horiz.	4		Right	Lawn, with trees and/or fences	Right Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream			Floodplain		N Value
Bottom width (ft)	9		Left	Lawn, with buildings	Left Streams in wide valleys
Bank Geom. Horiz.	2		Right	Lawn, with trees and/or fences	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	8				

Culvert Information					
Culvert ID FR 6810					
Angle of Skew			Barrel Characteristics		
Geometry	Elliptical		Headwall to embankment		
Material	CM		Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch		Stream to pipe	0; 45	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	7		Length	63	
Bottom width			Cover to top of deck	2	
Greatest width					
Diameter					
Height	5				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	6		Left	Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Horiz.	4		Right	Lawn, with trees and/or fences	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream			Floodplain		N Value
Bottom width (ft)	6		Left	Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Horiz.	4		Right	Lawn, with trees and/or fences	Right Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information			
Culvert ID FR 6820			
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	0
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width	5	Length	35
Bottom width		Cover to top of deck	0
Greatest width			
Diameter			
Height	3.5		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	7.5	Left	Lawn, with buildings Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream		Floodplain	N Value
Bottom width (ft)	7.5	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	4		

Culvert Information			
Culvert ID FR 6821			
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	30
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width	4.5	Length	47
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter			
Height	2.5		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees Left
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees Right
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream		Floodplain	N Value
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees Left
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right
Bank Geom. Vert.	1		
Bank Full Depth	2.5		

Culvert Information			
Culvert ID FR 6830			
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	30
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width	6.5	Length	88
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter			
Height	4		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream		Floodplain	N Value
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		

Culvert Information			
Culvert ID FR 7110			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	42
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)		Left	Pasture or field with no brush Left
Bank Geom. Horiz.		Right	Scattered brush, heavy weeds Right
Bank Geom. Vert.			
Bank Full Depth			
Downstream		Floodplain	N Value
Bottom width (ft)		Left	Medium to dense brush with scattered trees Left
Bank Geom. Horiz.		Right	Medium to dense brush Right
Bank Geom. Vert.			
Bank Full Depth			

Culvert Information					
Culvert ID FR 7310					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe	0		
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length	46		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	5.5	Left	Lawn, short grass	Left	
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Lawn, with trees and/or fences	Left	
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	
Bank Geom. Vert.	1				
Bank Full Depth	2				
Culvert Information					
Culvert ID FR 7405					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe	20		
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length	41		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information					
Culvert ID FR 7410					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe		30	
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length		37	
Bottom width		Cover to top of deck		1	
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	5.5	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	2.5				

Culvert Information					
Culvert ID FR 7420					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe		10	
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length		38	
Bottom width		Cover to top of deck		1	
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	2.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Paved or impervious	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID HR 10310

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment	0		
Material	RC	Headwall to pipe	0		
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	0		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	17	Length	180		
Bottom width		Cover to top of deck	6		
Greatest width					
Diameter					
Height	12				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	28	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	23	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	11				

Culvert Information
Culvert ID HR 10340

Angle of Skew		Barrel Characteristics					
Geometry	Box	Headwall to embankment	45				
Material	RC	Headwall to pipe	0				
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe					
Entrance Design	Square-edge at crown						
Depth barrel is filled	0						
Dimensions							
Width	13	Length	22				
Bottom width		Cover to top of deck	1				
Greatest width							
Diameter							
Height	13						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	8	Left	Pasture or field with no brush	Left	Streams in wide valleys		
Bank Geom. Horiz.	4	Right	Pasture or field with no brush	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	1						
Downstream		Floodplain		N Value			
Bottom width (ft)	10	Left	Cultivated area	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Cultivated area	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	3						

Culvert Information
Culvert ID HR 10355

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CI	Headwall to pipe			
Entrance Type		Stream to pipe	0		
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length	29		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	7				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Pasture or field with no brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream		Floodplain		N Value	
Bottom width (ft)	25	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Pasture or field with no brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID HR 10375

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	End section conformed to slope				
Depth barrel is filled	.5				
Dimensions					
Width	5.5	Length	35		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Pasture or field with no brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Culvert Information
Culvert ID HR 10380

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	45		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	10	Length	20		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	10	Floodplain		N Value	
		Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream					
Bottom width (ft)	14	Floodplain		N Value	
		Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Culvert Information
Culvert ID HR 10385

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	4	Length	40		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream					
		Floodplain		N Value	
Bottom width (ft)	10.5	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Cultivated area	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream					
		Floodplain		N Value	
Bottom width (ft)	10	Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

Culvert Information
Culvert ID HR 10420

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	40		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	4				
Height					
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	7	Floodplain		N Value	
		Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream					
Bottom width (ft)	15	Floodplain		N Value	
		Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				

Culvert Information
Culvert ID HR 10421

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe			
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	10	Length	29		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter					
Height	3.5				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	12	Floodplain		N Value	
		Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream					
Bottom width (ft)	12	Floodplain		N Value	
		Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Cultivated area	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID HR 10430

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment	45		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width		Length	25		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID HR 10503

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Headwall Parallel to Embankment (no Stream to pipe wingwalls)				
Entrance Design	Square-edged on three edges				
Depth barrel is filled	0				
Dimensions					
Width	7	Length	19		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	1.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	2				

Culvert Information
Culvert ID HR 10511

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	20		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	20	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID HR 10520

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		45	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	1				
Dimensions					
Width	3.5	Length		41	
Bottom width		Cover to top of deck		1	
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	10	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream					
Bottom width (ft)	8	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID HZR 11710

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	45		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	22	Length	71		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter					
Height	9				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	20	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	27	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				

Culvert Information
Culvert ID HZR 11711

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	45		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	22	Length	64		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter					
Height	9				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	12.5	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Culvert Information
Culvert ID HZR 11715

Angle of Skew		Barrel Characteristics					
Geometry	Elliptical	Headwall to embankment	60				
Material	CM	Headwall to pipe	0				
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60				
Entrance Design	Headwall or headwall and wingwalls square edge						
Depth barrel is filled	0.5						
Dimensions							
Width	29	Length	102				
Bottom width		Cover to top of deck	2.5				
Greatest width							
Diameter							
Height	8.5						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	7						
Downstream		Floodplain		N Value			
Bottom width (ft)	24	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals		
Bank Geom. Vert.	1						
Bank Full Depth	6						

Culvert Information
Culvert ID HZR 11761

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0		
Entrance Design	Socket end of pipe (flared end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	46		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream					
		Floodplain		N Value	
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					
Downstream					
Bottom width (ft)	10	Floodplain		N Value	
		Left	Lawn, short grass	Left	
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID HZR 11764

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	6	Length	58		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	9	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream					
Bottom width (ft)		Floodplain		N Value	
		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					

Spans		Bridge Information	
		Structure ID HZR 11765	
		Piers	
Geometry	Box	Number	0
Width	16	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	17.5
Distance from low chord to deck	0.5	Shape of abutments	Vertical
Distance from deck to parapet	2.5	Type of parapet	Other
Angle of skew of flow	30		

Upstream		Stream Channel Characteristics			
Bottom width (ft)	8	Floodplain		N Value	
Bank Geom. Horiz.	4	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Vert.	1	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Full Depth	4				
Downstream					
Bottom width (ft)	18	Floodplain		N Value	
Bank Geom. Horiz.	3	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Vert.	1	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Full Depth	6.5				

Culvert Information
Culvert ID HZR 11775

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	60		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter	5				
Height					
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	6	Floodplain		N Value	
		Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6.5				
Downstream					
Bottom width (ft)	18	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

Culvert Information
Culvert ID HZR 11791

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RM	Headwall to pipe			
Entrance Type	Headwall Parallel to Embankment (no wingwalls)	Stream to pipe		20	
Entrance Design	Square-edged on three edges				
Depth barrel is filled	0				
Dimensions					
Width	6	Length	33.5		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	7	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream					
Bottom width (ft)	8	Floodplain		N Value	
		Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID HZR 11792

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	20		
Material	RC	Headwall to pipe	0		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	20		
Entrance Design	Square-edged on three edges				
Depth barrel is filled	0				
Dimensions					
Width	8	Length	46		
Bottom width		Cover to top of deck	3		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID HZR 11793

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment	45		
Material	RC	Headwall to pipe	0		
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	45		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	8	Length	28		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	8				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	9.5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information			
Culvert ID LD 3615			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	37
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter	4		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream		Floodplain	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	3		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Pools and Shoals

Culvert Information			
Culvert ID LD 3620			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	0
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width		Length	21
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	28	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	2.5		
Downstream		Floodplain	
Bottom width (ft)	24	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Pools and Shoals

Culvert Information					
Culvert ID LD 3621					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment	0		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width		Length	21		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain	N Value		
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	1				
Downstream		Floodplain	N Value		
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	1				

Culvert Information			
Culvert ID LD 3625			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	HDPE	Headwall to pipe	
Entrance Type		Stream to pipe	10
Entrance Design			
Depth barrel is filled	0		
Dimensions			
Width		Length	31
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	2		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	13	Left	Paved or impervious Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	2		
Downstream		Floodplain	N Value
Bottom width (ft)	7	Left	Scattered brush, heavy weeds Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Scattered brush, heavy weeds Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	2		

Culvert Information					
Culvert ID LD 3715					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length		42	
Bottom width		Cover to top of deck		5	
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Bridge Information					
Structure ID LR 8105					
Spans		Piers			
Geometry	Box	Number		0	
Width	19	Shape			
Height	5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length		16	
Distance from low chord to deck	2	Shape of abutments		Vertical	
Distance from deck to parapet		Type of parapet		Guide Rail	
Angle of skew of flow	20				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	26.5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	26.5	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Spans		Bridge Information Structure ID LR 8110	
		Piers	
Geometry	Box	Number	0
Width	43	Shape	
Height	8.5	Width at bottom	
Height where arch begins	4	Width	
		Height at bottom	
		Length	73
Distance from low chord to deck	4	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Guide Rail
Angle of skew of flow	0		
		Stream Channel Characteristics	
Upstream		Floodplain	
		N Value	
Bottom width (ft)	35	Left	Lawn, with buildings Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream		Floodplain	
		N Value	
Bottom width (ft)	34	Left	Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
		Bridge Information Structure ID LR 8320	
Spans		Piers	
Geometry	Arch	Number	1
Width	12.5	Shape	Square nose
Height	5.5	Width at bottom	2.5
Height where arch begins	5.5	Width	2.5
		Height at bottom	5.5
		Length	13
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	30		
		Stream Channel Characteristics	
Upstream		Floodplain	
		N Value	
Bottom width (ft)	35	Left	Lawn, with trees and/or fences Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Downstream		Floodplain	
		N Value	
Bottom width (ft)	28	Left	Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4.5		

Spans		Bridge Information Structure ID LR 8330 Piers			
Geometry	Box	Number	0		
Width	26.5	Shape			
Height	4	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	22		
Distance from low chord to deck	2	Shape of abutments	Other		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	45				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	30	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
		Floodplain		N Value	
Bottom width (ft)	34	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Dense willows or with undergrowth	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.0				
		</			

		<div>Bridge Information</div> <div>Structure ID LR 8405</div> <div>Piers</div>			
Geometry	Box	Number	0		
Width	14	Shape			
Height	4.3	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	21		
Distance from low chord to deck	2.5	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	30				
		<div>Stream Channel</div> <div>Characteristics</div>			
		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	24	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	4				
		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	29	Left	Medium to dense brush with scattered trees	Left	Lined or built-up channels
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Concrete
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
		<div>Bridge Information</div> <div>Structure ID LR 8455</div> <div>Piers</div>			
Geometry	Box	Number	0		
Width	23	Shape			
Height	4	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	52		
Distance from low chord to deck	2	Shape of abutments			
Distance from deck to parapet		Type of parapet			
Angle of skew of flow	0				
		<div>Stream Channel</div> <div>Characteristics</div>			
		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	23	Left	Lawn, with buildings	Left	Lined or built-up channels
Bank Geom. Horiz.	1	Right	Lawn, with buildings	Right	Gravel Bottom with Sides of:
Bank Geom. Vert.	1				
Bank Full Depth	5				
		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	23	Left	Lawn, with trees and/or fences	Left	Lined or built-up channels
Bank Geom. Horiz.	1	Right	Lawn, with trees and/or fences	Right	Gravel Bottom with Sides of:
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information							
Culvert ID LR 8461							
Angle of Skew		Barrel Characteristics					
Geometry	Squash Pipe	Headwall to embankment					
Material	CM	Headwall to pipe					
Entrance Type		Stream to pipe					
Entrance Design							
Depth barrel is filled	1 inch						
Dimensions							
Width	3.5	Length					
Bottom width		Cover to top of deck					
Greatest width							
Diameter							
Height	4.5						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left	Excavated or dredged channels		
Bank Geom. Horiz.		Right	Medium to dense brush with scattered trees	Right	Channel Not Maintained - Weeds and Brush		
Bank Geom. Vert.							
Bank Full Depth							
Downstream		Floodplain		N Value			
Bottom width (ft)	2 - 3	Left	Medium to dense brush with scattered trees	Left	Excavated or dredged channels		
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Channel Not Maintained - Weeds and Brush		
Bank Geom. Vert.	1						
Bank Full Depth	1- 2						
		Bridge Information					
		Structure ID LR 8469					
Spans		Piers					
Geometry	Box	Number	0				
Width	13	Shape					
Height	2.5	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	17				
Distance from low chord to deck	1.5	Shape of abutments					
Distance from deck to parapet		Type of parapet					
Angle of skew of flow	40						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	21	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	4						
Downstream		Floodplain		N Value			
Bottom width (ft)	21	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	4.5						

Spans		Bridge Information Structure ID LR 8470 Piers			
Geometry	Box	Number	0		
Width	21	Shape			
Height	3.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	18		
Distance from low chord to deck	1	Shape of abutments	Vertical		
Distance from deck to parapet	4	Type of parapet	Concrete Barrier		
Angle of skew of flow	30				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	33	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	32				
Downstream		Floodplain		N Value	
Bottom width (ft)	33	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	32				

Spans		Bridge Information Structure ID LR 8480 Piers	
Geometry	Box	Number	0
Width	20	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	66
Distance from low chord to deck	2.5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	30		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	12.5	Floodplain	
Bank Geom. Horiz.	2	Left	Lawn, with buildings
Bank Geom. Vert.	1	Right	Impervious with structures, commercial
Bank Full Depth	4		
Downstream		N Value	
Bottom width (ft)	18	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	4		
Spans		Bridge Information Structure ID LR 8485 Piers	
Geometry	Box	Number	0
Width	8	Shape	
Height	2	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	0
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	18.5	Floodplain	
Bank Geom. Horiz.	3	Left	Light brush and trees
Bank Geom. Vert.	1	Right	Light brush and trees
Bank Full Depth	3		
Downstream		N Value	
Bottom width (ft)	18.5	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		
Spans		Bridge Information Structure ID LR 8485 Piers	
Geometry	Box	Number	0
Width	8	Shape	
Height	2	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	0
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	18.5	Floodplain	
Bank Geom. Horiz.	3	Left	Light brush and trees
Bank Geom. Vert.	1	Right	Light brush and trees
Bank Full Depth	3		
Downstream		N Value	
Bottom width (ft)	18.5	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		

Culvert Information					
Culvert ID MR 2210					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	50		
Bottom width		Cover to top of deck	2.5		
Greatest width					
Diameter	6				
Height					
Stream Channel Characteristics					
Upstream		Floodplain	N Value		
Bottom width (ft)	4	Left	Dense willows or with undergrowth	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream		Floodplain	N Value		
Bottom width (ft)	6	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information					
Culvert ID MR 2310					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe	0		
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length	58		
Bottom width		Cover to top of deck	4		
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream					
		Floodplain	N Value		
Bottom width (ft)		Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.					
Bank Full Depth					
Downstream					
		Floodplain	N Value		
Bottom width (ft)		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Medium to dense brush	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.					
Bank Full Depth					

Culvert Information
Culvert ID PR 11730

Angle of Skew		Barrel Characteristics			
Geometry	Arch	Headwall to embankment	45		
Material	RC	Headwall to pipe	0		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	15		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	54		
Bottom width	17.5	Cover to top of deck	2		
Greatest width					
Diameter					
Height	6.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID PR 11735

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment	30		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	20		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width		Length	234		
Bottom width		Cover to top of deck	25++		
Greatest width					
Diameter	8				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	12	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID SER 11505

Angle of Skew		Barrel Characteristics		
Geometry	Arch	Headwall to embankment	30	
Material	CM	Headwall to pipe	0	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30	
Entrance Design	Headwall or headwall and wingwalls square edge			
Depth barrel is filled	0			
Dimensions				
Width		Length	90	
Bottom width	29	Cover to top of deck	1	
Greatest width				
Diameter				
Height	9.5			
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)	25.5	Left	Lawn, short grass	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1			
Bank Full Depth	5.5			
Downstream		Floodplain		N Value
Bottom width (ft)	34	Left	Lawn, with buildings	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	5.5			

Culvert Information
Culvert ID SER 11525

Angle of Skew		Barrel Characteristics		
Geometry	Circular	Headwall to embankment		
Material	CM	Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10	
Entrance Design	Projected from fill (no headwall)			
Depth barrel is filled	0			
Dimensions				
Width		Length	115	
Bottom width		Cover to top of deck	9	
Greatest width				
Diameter	4			
Height				
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)		Left	Lawn, with trees and/or fences	Left
Bank Geom. Horiz.		Right	Lawn, with trees and/or fences	Right
Bank Geom. Vert.				
Bank Full Depth				
Downstream		Floodplain		N Value
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right
Bank Geom. Vert.	1			
Bank Full Depth	5.5			

Culvert Information
Culvert ID SER 11536

Angle of Skew		Barrel Characteristics			
Geometry	Arch	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	55		
Bottom width	31	Cover to top of deck	4		
Greatest width					
Diameter					
Height	12.5				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	16	Floodplain		N Value	
		Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	7.5				
Downstream					
Bottom width (ft)	8.5	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				

Culvert Information
Culvert ID SER 11575

Angle of Skew		Barrel Characteristics			
Geometry	Arch	Headwall to embankment		45	
Material	RC	Headwall to pipe		0	
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe		45	
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width		Length		41	
Bottom width	8.5	Cover to top of deck		2.5	
Greatest width					
Diameter					
Height	9				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	8.5	Floodplain		N Value	
		Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream					
Bottom width (ft)	13	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID SER 11581

Angle of Skew		Barrel Characteristics					
Geometry	Arch	Headwall to embankment	0				
Material	RC	Headwall to pipe	0				
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe					
Entrance Design	Square cut end of pipe (straight end)						
Depth barrel is filled	0						
Dimensions							
Width		Length	73				
Bottom width	12	Cover to top of deck	6				
Greatest width							
Diameter							
Height	8.5						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	5	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools		
Bank Geom. Vert.	1						
Bank Full Depth	6						
Downstream		Floodplain		N Value			
Bottom width (ft)	16	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Sluggish Reaches - Weedy - Deep Pools		
Bank Geom. Vert.	1						
Bank Full Depth	7						

Culvert Information
Culvert ID SER 11582

Angle of Skew		Barrel Characteristics			
Geometry	Arch	Headwall to embankment	60		
Material	RC	Headwall to pipe	0		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	60		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	72		
Bottom width	13	Cover to top of deck	9.5		
Greatest width					
Diameter					
Height	6.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID SER 11583

Angle of Skew		Barrel Characteristics			
Geometry	Arch	Headwall to embankment	45		
Material	RC	Headwall to pipe	0		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	45		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	72		
Bottom width	13	Cover to top of deck	6		
Greatest width					
Diameter					
Height	4.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID SER 11590

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment	30		
Material	RC	Headwall to pipe	0		
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	30		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	10	Length	35.5		
Bottom width		Cover to top of deck	3		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	13.5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Culvert Information
Culvert ID SER 11591

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0		
Entrance Design	Socket end of pipe (flared end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	45		
Bottom width		Cover to top of deck	5		
Greatest width					
Diameter	2.5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID SER 11593

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0		
Entrance Design	Socket end of pipe (flared end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	33		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	2.5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)	3	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	2				

Spans		Bridge Information Structure ID SR 7110	
		Piers	
Geometry	Box	Number	0
Width	11	Shape	
Height	7.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	39
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	18	Left	Lawn, short grass
Bank Geom. Horiz.	1	Right	Pasture or field with no brush
Bank Geom. Vert.	1		
Bank Full Depth	6		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Pools and Shoals
Downstream		Floodplain	
Bottom width (ft)	19	Left	Cultivated area
Bank Geom. Horiz.	1	Right	Lawn, short grass
Bank Geom. Vert.	1		
Bank Full Depth	6		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		Bridge Information Structure ID SR 7120	
		Piers	
Geometry	Box	Number	0
Width	15	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet	1	Type of parapet	Guide Rail
Angle of skew of flow	10		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	17	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	7		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
Downstream		Floodplain	
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds

Culvert Information			
Culvert ID SR 7210			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	10
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	50
Bottom width		Cover to top of deck	6.5
Greatest width			
Diameter			
Height			
Stream Channel Characteristics			
Upstream			
		Floodplain	N Value
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream			
		Floodplain	N Value
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5		

Culvert Information					
Culvert ID SR 7310					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe			
Entrance Design	End section conformed to slope				
Depth barrel is filled	1				
Dimensions					
Width		Length			
Bottom width		Cover to top of deck			
Greatest width					
Diameter					
Height					
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	13	Floodplain	N Value		
Bank Geom. Horiz.	2	Left	Left	Medium to dense brush with scattered trees	Streams in wide valleys
Bank Geom. Vert.	1	Right	Right	Medium to dense brush with scattered trees	Sluggish Reaches - Weedy - Deep Pools
Bank Full Depth	8				
Downstream					
Bottom width (ft)	15	Floodplain	N Value		
Bank Geom. Horiz.	2	Left	Left	Medium to dense brush with scattered trees	Streams in wide valleys
Bank Geom. Vert.	1	Right	Right	Medium to dense brush with scattered trees	Sluggish Reaches - Weedy - Deep Pools
Bank Full Depth	7				

Culvert Information			
Culvert ID SR 7311			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	60
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width		Length	60
Bottom width		Cover to top of deck	4.5
Greatest width			
Diameter			
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	5	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream		Floodplain	N Value
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	7		
Bridge Information			
Structure ID SR 7320			
Spans		Piers	
Geometry	Box	Number	0
Width	16	Shape	
Height	8	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	27
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	3.5	Type of parapet	Concrete Barrier
Angle of skew of flow	10		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	5	Left	Lawn, short grass Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	2		
Downstream		Floodplain	N Value
Bottom width (ft)	5	Left	Light brush and trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	2		

		Bridge Information Structure ID SR 7430			
Spans		Piers			
Geometry	Other	Number	0		
Width	8	Shape			
Height	5.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	24		
Distance from low chord to deck	1	Shape of abutments	Vertical		
Distance from deck to parapet	0	Type of parapet	Guide Rail		
Angle of skew of flow	10				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				
		Bridge Information Structure ID SR 7435			
Spans		Piers			
Geometry	Box	Number	0		
Width	8	Shape			
Height	7	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	29		
Distance from low chord to deck	2	Shape of abutments	Vertical		
Distance from deck to parapet	0.5	Type of parapet	Guide Rail		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	4?				
Downstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4?				

Culvert Information			
Culvert ID SR 7510			
Angle of Skew		Barrel Characteristics	
Geometry	Box	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Headwall Parallel to Embankment (no wingwalls)	Stream to pipe	45
Entrance Design	Square-edged on three edges		
Depth barrel is filled	0		
Dimensions			
Width	4.5	Length	25.5
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter			
Height	4.5		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	12	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Left
Bank Geom. Vert.	1	Right	Right
Bank Full Depth	5		
Downstream			
Bottom width (ft)	12	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Left
Bank Geom. Vert.	1	Right	Right
Bank Full Depth	5		

Culvert Information			
Culvert ID SR 7520			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe	Stream to pipe	0
Entrance Design	Mitered to conform to slope		
Depth barrel is filled	0		
Dimensions			
Width		Length	45
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter	4.5		
Height			
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	9	Floodplain	N Value
		Left	Lawn, with trees and/or fences
			Left
			Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences
			Right
			Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream			
Bottom width (ft)	9	Floodplain	N Value
		Left	Medium to dense brush with scattered trees
			Left
			Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
			Right
			Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		

Culvert Information			
Culvert ID SR 7530			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe	Stream to pipe	0
Entrance Design	Side slope tapered inlet		
Depth barrel is filled	0		
Dimensions			
Width		Length	58
Bottom width		Cover to top of deck	4
Greatest width			
Diameter	3.5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Downstream		Floodplain	N Value
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	3.5		

Culvert Information			
Culvert ID SR 7611			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	0
Entrance Design	Square cut end of pipe (straight end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	67
Bottom width		Cover to top of deck	4
Greatest width			
Diameter	2.5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	11	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream		Floodplain	N Value
Bottom width (ft)	11	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		

Culvert Information									
Culvert ID SR 7810									
Angle of Skew		Barrel Characteristics							
Geometry	Circular	Headwall to embankment							
Material	CM	Headwall to pipe							
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0					
Entrance Design	Projected from fill (no headwall)								
Depth barrel is filled	0								
Dimensions									
Width		Length		33					
Bottom width		Cover to top of deck		.5					
Greatest width									
Diameter	2								
Height									
Stream Channel Characteristics									
Upstream									
Bottom width (ft)	6	Floodplain		N Value					
		Left	Pasture or field with no brush	Left	Streams in wide valleys				
Bank Geom. Horiz.	2	Right	Pasture or field with no brush	Right	Clean and Straight - No Rifts or Pools				
Bank Geom. Vert.	1								
Bank Full Depth	5.5								
Downstream									
Bottom width (ft)	8	Floodplain		N Value					
		Left	Pasture or field with no brush	Left	Streams in wide valleys				
Bank Geom. Horiz.	3	Right	Pasture or field with no brush	Right	Clean and Straight - No Rifts or Pools				
Bank Geom. Vert.	1								
Bank Full Depth	3								
Bridge Information									
Structure ID STR 6110									
Piers									
Geometry	Arch	Number		0					
Width	41	Shape							
Height	13	Width at bottom							
Height where arch begins	8	Width							
		Height at bottom							
		Length		18					
Distance from low chord to deck	4	Shape of abutments		None					
Distance from deck to parapet	1	Type of parapet		Other					
Angle of skew of flow	20								
Stream Channel Characteristics									
Upstream									
Bottom width (ft)	22					Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys				
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals				
Bank Geom. Vert.	1								
Bank Full Depth	7								
Downstream									
Bottom width (ft)	44	Floodplain		N Value					
		Left	Lawn, with trees and/or fences	Left	Streams in wide valleys				
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds				
Bank Geom. Vert.	1								
Bank Full Depth	8								

Spans		Bridge Information Structure ID STR 6130	
		Piers	
Geometry	Box	Number	0
Width	76	Shape	
Height	12	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	37
Distance from low chord to deck	5	Shape of abutments	Vertical
Distance from deck to parapet	4	Type of parapet	Concrete Barrier
Angle of skew of flow	30		
		Stream Channel Characteristics	
Upstream		Floodplain	
		N Value	
Bottom width (ft)	22	Left	Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
Downstream		Floodplain	
		N Value	
Bottom width (ft)	23	Left	Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	8		
		Bridge Information Structure ID STR 6710	
Spans		Piers	
Geometry	Box	Number	0
Width	30	Shape	
Height	11	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	23
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	20		
		Stream Channel Characteristics	
Upstream		Floodplain	
		N Value	
Bottom width (ft)	32	Left	Lawn, with trees and/or fences Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	2.5		
Downstream		Floodplain	
		N Value	
Bottom width (ft)	28	Left	Light brush and trees Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4		

Spans		Bridge Information Structure ID STR 6910 Piers	
Geometry	Box	Number	0
Width	20	Shape	
Height	7	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	21
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	20		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	13	Floodplain	
Bank Geom. Horiz.	3	Left	Medium to dense brush with scattered trees
Bank Geom. Vert.	1	Right	Lawn, with buildings
Bank Full Depth	5		
Downstream		N Value	
Bottom width (ft)	12	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1		
Bank Full Depth	4.5		
Spans		Bridge Information Structure ID STR 6925 Piers	
Geometry	Box	Number	0
Width		Shape	
Height		Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	
Distance from low chord to deck		Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow			
Upstream		Stream Channel Characteristics	
Bottom width (ft)		Floodplain	
Bank Geom. Horiz.		Left	Medium to dense brush with scattered trees
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth			
Downstream		N Value	
Bottom width (ft)		Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Clean and Winding - More Stones
Bank Geom. Vert.	1		
Bank Full Depth			
Spans		Bridge Information Structure ID STR 6925 Piers	
Geometry	Box	Number	0
Width		Shape	
Height		Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	
Distance from low chord to deck		Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow			
Upstream		Stream Channel Characteristics	
Bottom width (ft)		Floodplain	
Bank Geom. Horiz.		Left	Medium to dense brush with scattered trees
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth			
Downstream		N Value	
Bottom width (ft)		Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth			

Spans		Bridge Information	
		Structure ID STR 6925A	
		Piers	
Geometry	Box	Number	0
Width	28	Shape	
Height	11	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	49
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	3	Type of parapet	Guide Rail
Angle of skew of flow	0		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream		Floodplain	
Bottom width (ft)	9	Left	Medium to dense brush
Bank Geom. Horiz.	3	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - More Stones
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		Culvert Information	
		Culvert ID STR 6929	
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width	7	Length	58
Bottom width		Cover to top of deck	1
Greatest width			
Diameter			
Height	5		
Stream Channel Characteristics			
Upstream		Floodplain	
Bottom width (ft)	8	Left	Lawn, with buildings
Bank Geom. Horiz.	2	Right	Medium to dense brush
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream		Floodplain	
Bottom width (ft)	12	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - More Stones

Culvert Information
Culvert ID STR 6944

Angle of Skew		Barrel Characteristics		
Geometry	Squash Pipe	Headwall to embankment		
Material	CM	Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0	
Entrance Design	Projected from fill (no headwall)			
Depth barrel is filled	0			
Dimensions				
Width	6	Length	28	
Bottom width		Cover to top of deck	1.5	
Greatest width				
Diameter				
Height	3.5			
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	5.5	Floodplain		N Value
		Left	Light brush and trees	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	3			
Downstream				
Bottom width (ft)	7.5	Floodplain		N Value
		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right Clean and Winding - More Stones
Bank Geom. Vert.	1			
Bank Full Depth	4.5			

Culvert Information
Culvert ID STR 6945

Angle of Skew		Barrel Characteristics		
Geometry	Circular	Headwall to embankment		
Material	RC	Headwall to pipe		
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0	
Entrance Design	Square cut end of pipe (straight end)			
Depth barrel is filled	0			
Dimensions				
Width		Length	31.5	
Bottom width		Cover to top of deck	1	
Greatest width				
Diameter	2			
Height				
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	3	Floodplain		N Value
		Left	Lawn, short grass	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right Clean and Winding - More Stones
Bank Geom. Vert.	1			
Bank Full Depth	2.5			
Downstream				
Bottom width (ft)	4	Floodplain		N Value
		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right Clean and Winding - More Stones
Bank Geom. Vert.	1			
Bank Full Depth	3			

Culvert Information				
Culvert ID STR 6955				
Angle of Skew		Barrel Characteristics		
Geometry	Circular	Headwall to embankment	0	
Material	RC	Headwall to pipe	0	
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	0	
Entrance Design	Square cut end of pipe (straight end)			
Depth barrel is filled	0			
Dimensions				
Width		Length	80	
Bottom width		Cover to top of deck	4.5	
Greatest width				
Diameter	4.5			
Height				
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)		Left		Left
Bank Geom. Horiz.		Right		Right
Bank Geom. Vert.				
Bank Full Depth				
Downstream		Floodplain		N Value
Bottom width (ft)		Left		Left
Bank Geom. Horiz.		Right		Right
Bank Geom. Vert.				
Bank Full Depth				

Culvert Information				
Culvert ID STR 6971				
Angle of Skew		Barrel Characteristics		
Geometry	Circular	Headwall to embankment		
Material	CM	Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0	
Entrance Design	Projected from fill (no headwall)			
Depth barrel is filled	0			
Dimensions				
Width		Length	31	
Bottom width		Cover to top of deck	2	
Greatest width				
Diameter	5			
Height				
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)	6	Left	Scattered brush, heavy weeds	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Scattered brush, heavy weeds	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1			
Bank Full Depth	7			
Downstream		Floodplain		N Value
Bottom width (ft)	11	Left	Lawn, with buildings	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right Clean and Winding - More Stones
Bank Geom. Vert.	1			
Bank Full Depth	8			

Culvert Information
Culvert ID STR 6972

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	3	Length	30		
Bottom width		Cover to top of deck	3		
Greatest width					
Diameter					
Height	2				
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	8	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream					
Bottom width (ft)	15	Floodplain		N Value	
		Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Culvert Information
Culvert ID STR 6976

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe		0	
Entrance Design					
Depth barrel is filled	0.5				
Dimensions					
Width		Length		29	
Bottom width		Cover to top of deck		1	
Greatest width					
Diameter	1.5				
Height					
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	3	Floodplain		N Value	
		Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	2				
Downstream					
Bottom width (ft)		Floodplain		N Value	
		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					

Culvert Information			
Culvert ID TR 3220			
Angle of Skew		Barrel Characteristics	
Geometry	Box	Headwall to embankment	0
Material	RC	Headwall to pipe	
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	0
Entrance Design	Square-edge at crown		
Depth barrel is filled	2 in.		
Dimensions			
Width	7	Length	25
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter			
Height	4		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	15	Floodplain	
Bank Geom. Horiz.	2	Left	Lawn, with buildings
Bank Geom. Vert.	1	Right	Lawn, with buildings
Bank Full Depth	4		
Downstream			
Bottom width (ft)	10	Floodplain	
Bank Geom. Horiz.	2	Left	Lawn, with buildings
Bank Geom. Vert.	1	Right	Lawn, with buildings
Bank Full Depth	3.5		
N Value			
Left			Streams in wide valleys
Right			Clean and Winding - Some Stones and Weeds
Culvert Information			
Culvert ID TR 3410			
Angle of Skew		Barrel Characteristics	
Geometry	Squash Pipe	Headwall to embankment	0
Material	CM	Headwall to pipe	30
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0, 0.5		
Dimensions			
Width	4.5	Length	28
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter			
Height	3		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	12	Floodplain	
Bank Geom. Horiz.	3	Left	Medium to dense brush with scattered trees
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	4		
Downstream			
Bottom width (ft)	14	Floodplain	
Bank Geom. Horiz.	4	Left	Lawn, with buildings
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	3.5		
N Value			
Left			Streams in wide valleys
Right			Clean and Winding - Some Stones and Weeds

Spans		Bridge Information Structure ID TR 3810 Piers			
Geometry	Box	Number	0		
Width	12	Shape			
Height	5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	23		
Distance from low chord to deck	1.5	Shape of abutments	None		
Distance from deck to parapet	0.5	Type of parapet	None		
Angle of skew of flow	30				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information					
Culvert ID TR 3830					
Angle of Skew			Barrel Characteristics		
Geometry	Elliptical	Headwall to embankment	60		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	see comment		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	6	Length	27		
Bottom width		Cover to top of deck	0.5		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream			Floodplain		N Value
Bottom width (ft)	31	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				
Culvert Information					
Culvert ID TR 3831					
Angle of Skew			Barrel Characteristics		
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	3	Length	40		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	2				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	14	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream			Floodplain		N Value
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					

Culvert Information			
Culvert ID TR 3840			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0
Entrance Design	Socket end of pipe (flared end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	80
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	4		
Height			
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	8	Floodplain	N Value
		Left	Left Lawn, short grass Streams in wide valleys
Bank Geom. Horiz.	2	Right	Right Paved or impervious Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream			
Bottom width (ft)	13	Floodplain	N Value
		Left	Left Scattered brush, heavy weeds Streams in wide valleys
Bank Geom. Horiz.	2	Right	Right Scattered brush, heavy weeds Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	6		

Culvert Information					
Culvert ID TR 3855					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe	20		
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length	21		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream					
Bottom width (ft)	14	Floodplain	N Value		
Bank Geom. Horiz.	3	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Full Depth	5				
Downstream					
Bottom width (ft)	15	Floodplain	N Value		
Bank Geom. Horiz.	3	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals
Bank Full Depth	5				

Culvert Information					
Culvert ID TR 3870					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	HDPE	Headwall to pipe			
Entrance Type		Stream to pipe		30	
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length		36	
Bottom width		Cover to top of deck		1.5	
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				
Culvert Information					
Culvert ID TR 3880					
Angle of Skew		Barrel Characteristics			
Geometry	Squash Pipe	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	2	Length		28	
Bottom width		Cover to top of deck		1.5	
Greatest width					
Diameter					
Height	1.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information Culvert ID TR 3891					
Angle of Skew			Barrel Characteristics		
Geometry	Circular		Headwall to embankment		
Material	CM		Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch		Stream to pipe	0; 90	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width			Length	30	
Bottom width			Cover to top of deck	2	
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	8		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	3		Right	Lawn, with trees and/or fences	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream			Floodplain		N Value
Bottom width (ft)	11		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	3		Right	Medium to dense brush with scattered trees	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
Culvert Information Culvert ID TRR 5955					
Angle of Skew			Barrel Characteristics		
Geometry	Elliptical		Headwall to embankment	45	
Material	RC		Headwall to pipe	0	
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls		Stream to pipe	45	
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width	5		Length	68	
Bottom width			Cover to top of deck	1	
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream			Floodplain		N Value
Bottom width (ft)	10		Left	Paved or impervious	Left Streams in wide valleys
Bank Geom. Horiz.	4		Right	Lawn, short grass	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream			Floodplain		N Value
Bottom width (ft)	16		Left	Lawn, short grass	Left Streams in wide valleys
Bank Geom. Horiz.	4		Right	Lawn, with trees and/or fences	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID TRR 5960

Angle of Skew					
Geometry	Box	Headwall to embankment	45		
Material	RC	Headwall to pipe	0		
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	45		
Entrance Design	Side or slope tapered inlet				
Depth barrel is filled	0				
Dimensions					
Width	9	Length	46		
Bottom width		Cover to top of deck	4		
Greatest width					
Diameter					
Height	3.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Paved or impervious	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	4	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID TSR 10910

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	30		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	29	Length	52		
Bottom width		Cover to top of deck	2.5		
Greatest width					
Diameter					
Height	5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	48	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	40	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Culvert Information
Culvert ID TSR 11010

Angle of Skew					
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	80		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	12	Length	52		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID TSR 11025

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	0		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	61	Length	55		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter					
Height	5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	26	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID TSR 11050

Angle of Skew					
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	0		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	11	Length	38		
Bottom width		Cover to top of deck	0		
Greatest width					
Diameter					
Height	5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Cultivated area	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Cultivated area	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID TSR 11060

Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	30		
Entrance Design	Square-edge at crown				
Depth barrel is filled	0				
Dimensions					
Width	15	Length	32		
Bottom width		Cover to top of deck	0		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	20	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID TSR 11070

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment	0		
Material	RC	Headwall to pipe	0		
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	30		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width		Length	50		
Bottom width		Cover to top of deck	4		
Greatest width					
Diameter	7				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information
Culvert ID TSR 11110

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	45		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	1.5				
Dimensions					
Width	4	Length	42		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	2.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	23	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID TSR 11130

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width	4	Length	38		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	3				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	20	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information					
Culvert ID WR 5111					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled					
Dimensions					
Width		Length	206		
Bottom width		Cover to top of deck	.5		
Greatest width					
Diameter	5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				
		Bridge Information			
		Structure ID wr 5310			
Spans		Piers			
Geometry	Box	Number	0		
Width	21	Shape			
Height	10	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	13		
Distance from low chord to deck	1.5	Shape of abutments	Vertical		
Distance from deck to parapet	0	Type of parapet	Other		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	19	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Culvert Information					
Culvert ID WR 5510					
Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	30		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	4	Length	35		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter					
Height	3.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	15.5	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	16	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
		Bridge Information			
		Structure ID wr 5610			
Spans		Piers			
Geometry	Box	Number	0		
Width	18	Shape			
Height	5	Width at bottom			
Height where arch begins	0	Width			
		Height at bottom			
		Length	27		
Distance from low chord to deck	1.5	Shape of abutments	Vertical		
Distance from deck to parapet	0	Type of parapet	Guide Rail		
Angle of skew of flow	45				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				

Culvert Information			
Culvert ID WR 5615			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	0
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width		Length	40
Bottom width		Cover to top of deck	.5
Greatest width			
Diameter	5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream		Floodplain	N Value
Bottom width (ft)	8	Left	Lawn, with trees and/or fences Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences Right Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1		
Bank Full Depth	4		

Culvert Information			
Culvert ID WR 5620			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	HDPE	Headwall to pipe	
Entrance Type		Stream to pipe	0
Entrance Design			
Depth barrel is filled	0		
Dimensions			
Width		Length	51
Bottom width		Cover to top of deck	3
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	3.5	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	1.5		
Downstream		Floodplain	N Value
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	2		

Culvert Information					
Culvert ID WR 5705					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	45		
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	1				
Dimensions					
Width		Length	46		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	5	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)		Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.					
Bank Full Depth					

Culvert Information					
Culvert ID WR 5730					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Side slope tapered inlet				
Depth barrel is filled	1				
Dimensions					
Width		Length	41		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter	3.5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information
Culvert ID WR 5750

Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	40		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width	4	Length	50		
Bottom width		Cover to top of deck	.5		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information
Culvert ID WR 5760

Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CM	Headwall to pipe			
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45		
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	0				
Dimensions					
Width		Length	50		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	15	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Culvert Information				
Culvert ID WR 5780				
Angle of Skew		Barrel Characteristics		
Geometry	Circular	Headwall to embankment		
Material	CM	Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0	
Entrance Design	Projected from fill (no headwall)			
Depth barrel is filled	0			
Dimensions				
Width		Length	50	
Bottom width		Cover to top of deck	2.5	
Greatest width				
Diameter	2.5			
Height				
Stream Channel Characteristics				
Upstream				
		Floodplain		N Value
Bottom width (ft)	11	Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	4.5			
Downstream				
		Floodplain		N Value
Bottom width (ft)	10	Left	Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	5			

Culvert Information				
Culvert ID WR 5785				
Angle of Skew		Barrel Characteristics		
Geometry	Elliptical	Headwall to embankment		
Material	CM	Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0	
Entrance Design	Projected from fill (no headwall)			
Depth barrel is filled				
Dimensions				
Width	3.5	Length	41	
Bottom width		Cover to top of deck	1.5	
Greatest width				
Diameter				
Height	2.5			
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	9	Floodplain		N Value
		Left	Medium to dense brush	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	2.5			
Downstream				
Bottom width (ft)	12	Floodplain		N Value
		Left	Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	4.5			

Culvert Information Culvert ID WR 5795					
Angle of Skew			Barrel Characteristics		
Geometry	Elliptical		Headwall to embankment		
Material	CM		Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch		Stream to pipe	0	
Entrance Design	Projected from fill (no headwall)				
Depth barrel is filled	1				
Dimensions					
Width	5.5		Length	41	
Bottom width			Cover to top of deck	1	
Greatest width					
Diameter					
Height	3.5				
Stream Channel Characteristics					
Upstream			Floodplain		
Bottom width (ft)	12		Left	Medium to dense brush with scattered trees	N Value Left Streams in wide valleys
Bank Geom. Horiz.	2		Right	Medium to dense brush with scattered trees	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream			Floodplain		
Bottom width (ft)	12		Left	Medium to dense brush with scattered trees	N Value Left Streams in wide valleys
Bank Geom. Horiz.	2		Right	Medium to dense brush with scattered trees	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information Culvert ID WR 5810					
Angle of Skew			Barrel Characteristics		
Geometry	Circular		Headwall to embankment		
Material	RC		Headwall to pipe		
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)		Stream to pipe	45	
Entrance Design	Square cut end of pipe (straight end)				
Depth barrel is filled	0				
Dimensions					
Width			Length	48	
Bottom width			Cover to top of deck	2.5	
Greatest width					
Diameter	2.5				
Height					
Stream Channel Characteristics					
Upstream			Floodplain		
Bottom width (ft)	N/A		Left	Pasture or field with no brush	N Value Left Streams in wide valleys
Bank Geom. Horiz.	4		Right	Pasture or field with no brush	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	0				
Downstream			Floodplain		
Bottom width (ft)	10		Left	Scattered brush, heavy weeds	N Value Left Streams in wide valleys
Bank Geom. Horiz.	4		Right	Lawn, short grass	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

Culvert Information			
Culvert ID WR 5820			
Angle of Skew		Barrel Characteristics	
Geometry	Box	Headwall to embankment	0
Material	RC	Headwall to pipe	0
Entrance Type	Headwall Parallel to Embankment (no wingwalls)	Stream to pipe	N/A
Entrance Design	Square-edged on three edges		
Depth barrel is filled	0		
Dimensions			
Width	2.5	Length	50
Bottom width		Cover to top of deck	1.5
Greatest width			
Diameter			
Height	2.5		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)		Floodplain	N Value
		Left	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	0		
Downstream			
Bottom width (ft)	3	Floodplain	N Value
		Left	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	1		
Bridge Information			
Structure ID YB 1510			
Spans		Piers	
Geometry	Box	Number	0
Width	19	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	14
Distance from low chord to deck	1.5	Shape of abutments	
Distance from deck to parapet	0.5	Type of parapet	Other
Angle of skew of flow	10		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	13	Floodplain	N Value
		Left	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream			
Bottom width (ft)	13	Floodplain	N Value
		Left	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	3		

Piers

Distance from low chord to deck	2
Distance from deck to parapet	1
Angle of skew of flow	30

Shape of abutments	
Type of parapet	Other

Bank Full Depth	3
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Bank Full Depth	2.5
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Right Lawn, with buildings

Left Streams in wide valleys

Right Clean and Straight - Some Stones
and Weeds

Right Lawn, with buildings

Left Streams in wide valleys

Right Clean and Straight - Some Stones
 and Weeds

Geometry	Circular
Material	RC
Entrance Type	Concrete Pipe
Entrance Design	Side slope tapered inlet
Depth barrel is filled	0

Width	
Bottom width	
Greatest width	
Diameter	2
Height	

Headwall to pipe	
Stream to pipe	0

Length	42
Cover to top of deck	1

Bank Full Depth	3
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Bank Full Depth	4
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Right Lawn, with buildings

Left Excavated or dredged channels

Right Earth - Straight and Uniform

Right Lawn, with buildings

Left Excavated or dredged channels

Right Earth - Straight and Uniform

Culvert Information					
Culvert ID YB 1820					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	CI	Headwall to pipe			
Entrance Type		Stream to pipe		0	
Entrance Design					
Depth barrel is filled	0				
Dimensions					
Width		Length		45	
Bottom width		Cover to top of deck		14	
Greatest width					
Diameter	2				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)	6	Left		Scattered brush, heavy weeds	Left Excavated or dredged channels
Bank Geom. Horiz.	3	Right		Scattered brush, heavy weeds	Right Channel Not Maintained - Weeds and Brush
Bank Geom. Vert.	1				
Bank Full Depth	3				

Culvert Information					
Culvert ID YB 1830					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe		30	
Entrance Design	Socket end of pipe (flared end)				
Depth barrel is filled	0				
Dimensions					
Width		Length		48	
Bottom width		Cover to top of deck		0.5	
Greatest width					
Diameter	3				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, with buildings	Left	Excavated or dredged channels
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Channel Not Maintained - Weeds and Brush
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Pasture or field with no brush	Left	Excavated or dredged channels
Bank Geom. Horiz.	3	Right	Pasture or field with no brush	Right	Channel Not Maintained - Weeds and Brush
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information							
Culvert ID YB 1842							
Angle of Skew		Barrel Characteristics					
Geometry	Circular	Headwall to embankment	0				
Material	CM	Headwall to pipe	45				
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45				
Entrance Design	Headwall or headwall and wingwalls square edge						
Depth barrel is filled	0.5						
Dimensions							
Width		Length	40				
Bottom width		Cover to top of deck	2				
Greatest width							
Diameter	1.5						
Height							
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	5	Left	Lawn, short grass	Left	Excavated or dredged channels		
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Channel Not Maintained - Weeds and Brush		
Bank Geom. Vert.	1						
Bank Full Depth	2						
Downstream		Floodplain		N Value			
Bottom width (ft)	6	Left	Medium to dense brush with scattered trees	Left	Excavated or dredged channels		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Channel Not Maintained - Weeds and Brush		
Bank Geom. Vert.	1						
Bank Full Depth	3						
Bridge Information							
Structure ID YB 1855							
Spans		Piers					
Geometry	Box	Number	1				
Width	47	Shape	Circular				
Height	5	Width at bottom	5				
Height where arch begins		Width	5				
		Height at bottom					
		Length	15				
Distance from low chord to deck	2	Shape of abutments					
Distance from deck to parapet	0.5	Type of parapet	Guide Rail				
Angle of skew of flow	45						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	42	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys		
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	3						
Downstream		Floodplain		N Value			
Bottom width (ft)	42	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys		
Bank Geom. Horiz.	4	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	3						

Culvert Information					
Culvert ID YB 1856					
Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment			
Material	RC	Headwall to pipe			
Entrance Type	Headwall Parallel to Embankment (no Stream to pipe wingwalls)	45			
Entrance Design	Square-edged on three edges				
Depth barrel is filled	0				
Dimensions					
Width	4	Length	51		
Bottom width		Cover to top of deck	0.5		
Greatest width					
Diameter					
Height	2				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)		Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.		Right	Paved or impervious	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth					

		Bridge Information Structure ID YB 3011					
Spans		Piers					
Geometry	Box	Number	0				
Width	20	Shape					
Height	3	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	22				
Distance from low chord to deck	1	Shape of abutments	Vertical				
Distance from deck to parapet	1	Type of parapet	Guide Rail				
Angle of skew of flow	0						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)		Left	Medium to dense brush	Left	Streams in wide valleys		
Bank Geom. Horiz.		Right	Medium to dense brush	Right	No water.		
Bank Geom. Vert.	1						
Bank Full Depth							
Downstream		Floodplain		N Value			
Bottom width (ft)	27	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	No water.		
Bank Geom. Vert.	1						
Bank Full Depth	3						
		Bridge Information Structure ID YB 3025					
Spans		Piers					
Geometry	Box	Number	1				
Width	101	Shape	Triangular nose with 60 degree angle				
Height	8	Width at bottom	7				
Height where arch begins		Width	7				
		Height at bottom	0				
		Length	18				
Distance from low chord to deck	1	Shape of abutments	Sloping				
Distance from deck to parapet	2.5	Type of parapet	Other				
Angle of skew of flow	45						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	82	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	7						
Downstream		Floodplain		N Value			
Bottom width (ft)	71	Left	Lawn, with buildings	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	4.5						

Spans		Bridge Information Structure ID YB 3030 Piers			
Geometry	Box	Number	0		
Width	13	Shape			
Height	4	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	23		
Distance from low chord to deck	1	Shape of abutments	Vertical		
Distance from deck to parapet	2	Type of parapet	Other		
Angle of skew of flow	45				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	14	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	13	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				

Spans		Bridge Information Structure ID YB 3040 Piers	
Geometry	Other	Number	0
Width	85	Shape	
Height	7.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	14
Distance from low chord to deck	0.5	Shape of abutments	None
Distance from deck to parapet	0	Type of parapet	Other
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
		Floodplain	N Value
Bottom width (ft)	70	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream		Floodplain	N Value
Bottom width (ft)	70	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	6		
Culvert Information Culvert ID YB 3041		Barrel Characteristics	
Angle of Skew			
Geometry	Circular	Headwall to embankment	10
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0.5		
Dimensions			
Width		Length	30
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	13	Left	Lawn, short grass Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Downstream		Floodplain	N Value
Bottom width (ft)	12	Left	Lawn, short grass Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	4		

Spans		Bridge Information Structure ID YB 4050			
		Piers			
Geometry	Arch	Number	2		
Width	128	Shape	Triangular nose with 60 degree angle		
Height	12	Width at bottom	10		
Height where arch begins	2	Width	8		
		Height at bottom	2		
		Length	21		
Distance from low chord to deck	6	Shape of abutments			
Distance from deck to parapet	2	Type of parapet	Other		
Angle of skew of flow	60				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	100	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	100	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5				
		Bridge Information Structure ID YB 4051			
Spans		Piers			
Geometry	Box	Number	0		
Width	19	Shape			
Height	5.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	14		
Distance from low chord to deck	1	Shape of abutments	Vertical		
Distance from deck to parapet	0.5	Type of parapet	Other		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	20	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	4.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Paved or impervious	Right	Clean and Winding - Some Pools and Shoals
Bank Geom. Vert.	1				
Bank Full Depth	5				

Structure ID YB 4052

Piers

Number	0
Shape	
Width at bottom	
Width	
Height at bottom	
Length	18

Shape of abutments	0
Type of parapet	Other

Floodplain
Left

N Value

Right Impervious with structures,
commercial

Floodplain
Left

Left Paved or impervious

N Value

Right Paved or impervious

Angle of Skew

Headwall to embankment	0
Headwall to pipe	0
Stream to pipe	0

16

Length	16
Cover to top of deck	2

Floodplain
Left

Left LeftRight Right

Floodplain
Left

Left Lawn, short grass

N Value

Right Paved or impervious

		Bridge Information Structure ID YB 4110			
Spans		Piers			
Geometry	Box	Number	0		
Width	8	Shape			
Height	8	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	25		
Distance from low chord to deck	1	Shape of abutments			
Distance from deck to parapet	2	Type of parapet	Guide Rail		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					
Downstream		Floodplain		N Value	
Bottom width (ft)	22	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Impervious with structures, commercial	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
		Bridge Information Structure ID YB 4111			
Spans		Piers			
Geometry	Box	Number	0		
Width	19	Shape			
Height	3	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	45		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet	0.5	Type of parapet	Other		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	34	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Impervious with structures, commercial	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	24	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	1	Right	Impervious with structures, commercial	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				

Piers

Geometry	Box
Width	98
Height	7.5
Height where arch begins	

Number	1
Shape	Elongated with semi-circular ends
Width at bottom	6
Width	4
Height at bottom	1
Length	29

Stream Channel Characteristics

Bottom width (ft)	95
Bank Geom. Horiz.	3
Bank Geom. Vert.	1
Bank Full Depth	6

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

Left	Streams in wide valleys
Right	Clean and Straight - No Rifts or Pools

Bottom width (ft)	130
Bank Geom. Horiz.	3
Bank Geom. Vert.	1
Bank Full Depth	5.5

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

Left	Streams in wide valleys
Right	Clean and Straight - No Rifts or Pools

Geometry	Arch
Material	CM
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls
Entrance Design	Socket end of pipe (grooved end)
Depth barrel is filled	0

Headwall to embankment	0
Headwall to pipe	30
Stream to pipe	30

Width	
Bottom width	11
Greatest width	
Diameter	
Height	5.5

Length	24
Cover to top of deck	0.5

Bottom width (ft)	11
Bank Geom. Horiz.	3
Bank Geom. Vert.	1
Bank Full Depth	6

Left	Lawn, short grass
Right	Lawn, with buildings

Left Streams in wide valleys

Right

Bottom width (ft)	10
Bank Geom. Horiz.	3
Bank Geom. Vert.	1
Bank Full Depth	3

Left	Medium to dense brush with scattered trees
Right	Lawn, with buildings

Left Streams in wide valleys

Right

Culvert Information					
Culvert ID YB 4325					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment	0		
Material	CM	Headwall to pipe	30		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0.5				
Dimensions					
Width		Length	61		
Bottom width		Cover to top of deck	1		
Greatest width					
Diameter	4				
Height					
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	6.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	11	Left	N2	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information			
Culvert ID YB 4330			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	1		
Dimensions			
Width		Length	67
Bottom width		Cover to top of deck	4.5
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	11	Left	Light brush and trees
Bank Geom. Horiz.	2	Right	Light brush and trees
Bank Geom. Vert.	1		Right
Bank Full Depth	6		
Downstream		Floodplain	N Value
Bottom width (ft)	11	Left	Light brush and trees
Bank Geom. Horiz.	2	Right	Light brush and trees
Bank Geom. Vert.	1		Right
Bank Full Depth	4		

Culvert Information											
Culvert ID YB 4335											
Angle of Skew		Barrel Characteristics									
Geometry	Elliptical	Headwall to embankment									
Material	CM	Headwall to pipe									
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		0							
Entrance Design	Projected from fill (no headwall)										
Depth barrel is filled	0										
Dimensions											
Width	4.5	Length		80							
Bottom width		Cover to top of deck		1							
Greatest width											
Diameter											
Height	3										
Stream Channel Characteristics											
Upstream											
Bottom width (ft)	11	Floodplain		N Value							
		Left	Light brush and trees	Left	Streams in wide valleys						
Bank Geom. Horiz.	4	Right	Paved or impervious	Right							
Bank Geom. Vert.	1										
Bank Full Depth	4.5										
Downstream											
Bottom width (ft)	11	Floodplain		N Value							
		Left	Light brush and trees	Left	Streams in wide valleys						
Bank Geom. Horiz.	3	Right	Paved or impervious	Right							
Bank Geom. Vert.	1										
Bank Full Depth	3.5										
Bridge Information											
Structure ID YB 4356											
Piers											
Geometry	Box	Number	2								
Width	116	Shape	Triangular nose with 60 degree angle								
Height	6	Width at bottom	6.5								
Height where arch begins		Width	6.5								
		Height at bottom									
		Length	39								
Distance from low chord to deck	7	Shape of abutments	None								
Distance from deck to parapet	0	Type of parapet	Other								
Angle of skew of flow	30										
Stream Channel Characteristics											
Upstream											
Bottom width (ft)	75	Floodplain		N Value							
		Left	Pasture or field with no brush	Left	Streams in wide valleys						
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds						
Bank Geom. Vert.	1										
Bank Full Depth	5.5										
Downstream											
Bottom width (ft)	75	Floodplain		N Value							
		Left	Pasture or field with no brush	Left	Streams in wide valleys						
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds						
Bank Geom. Vert.	1										
Bank Full Depth	5.5										

Spans

Number	1
Shape	Triangular nose with 60 degree angle
Width at bottom	3
Width	3
Height at bottom	
Length	28
Shape of abutments	Vertical
Type of parapet	Guide Rail

Left	Streams in wide valleys
Right	Clean and Straight - No Rifts or Pools

Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds

Bridge Information			
Structure ID YB 4430			
Piers			
Spans			
Geometry	Box	Number	1
Width	29.5	Shape	Triangular nose with 60 degree angle
Height	5	Width at bottom	3.5
Height where arch begins		Width	1.5
		Height at bottom	2
		Length	16.5
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	10		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	27	Floodplain	
Bank Geom. Horiz.	2	Left	Medium to dense brush
Bank Geom. Vert.	1	Right	Medium to dense brush
Bank Full Depth	5.5	N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Pools and Shoals
Downstream			
Bottom width (ft)	16	Floodplain	
Bank Geom. Horiz.	2	Left	Paved or impervious
Bank Geom. Vert.	1	Right	Light brush and trees
Bank Full Depth	5.5	N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - Some Stones and Weeds
Bridge Information			
Structure ID YB 4435			
Piers			
Spans			
Geometry	Arch	Number	1
Width	113	Shape	Triangular nose with 60 degree angle
Height	9.5	Width at bottom	5
Height where arch begins		Width	5
		Height at bottom	
		Length	16
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	30		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	68	Floodplain	
Bank Geom. Horiz.	3	Left	Medium to dense brush
Bank Geom. Vert.	1	Right	Medium to dense brush
Bank Full Depth	4.5	N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - No Rifts or Pools
Downstream			
Bottom width (ft)	85	Floodplain	
Bank Geom. Horiz.	3	Left	Medium to dense brush with scattered trees
Bank Geom. Vert.	1	Right	Scattered brush, heavy weeds
Bank Full Depth	4.5	N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - No Rifts or Pools

Spans		Bridge Information Structure ID YB 4510 Piers			
Geometry	Box	Number	0		
Width	22.5	Shape			
Height	8.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	37.5		
Distance from low chord to deck	2	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	60				
Upstream		Stream Channel Characteristics			
		Floodplain		N Value	
Bottom width (ft)	13	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	18	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				

Spans		Bridge Information Structure ID YB 4525 Piers	
Geometry	Box	Number	0
Width	12	Shape	
Height	4.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	33
Distance from low chord to deck	2	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	10		
Upstream		Stream Channel Characteristics	
		Floodplain	N Value
Bottom width (ft)		Left	Lawn, with buildings Streams in wide valleys
Bank Geom. Horiz.		Right	Lawn, with trees and/or fences Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.			
Bank Full Depth			
Downstream			
		Floodplain	N Value
Bottom width (ft)		Left	Scattered brush, heavy weeds Streams in wide valleys
Bank Geom. Horiz.		Right	Scattered brush, heavy weeds Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.			
Bank Full Depth			
Spans		Bridge Information Structure ID YB 4610 Piers	
Geometry	Box	Number	1
Width	77	Shape	Triangular nose with 60 degree angle
Height	8	Width at bottom	5
Height where arch begins		Width	3
		Height at bottom	2.5
		Length	19
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
		Floodplain	N Value
Bottom width (ft)	71	Left	Light brush and trees Streams in wide valleys
Bank Geom. Horiz.	4	Right	Light brush and trees Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream			
		Floodplain	N Value
Bottom width (ft)	85	Left	Lawn, with trees and/or fences Streams in wide valleys
Bank Geom. Horiz.	4	Right	Light brush and trees Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	3.5		

Spans		Bridge Information Structure ID YB 4725 Piers	
Geometry	Box	Number	2
Width	102	Shape	Triangular nose with 60 degree angle
Height	9	Width at bottom	3
Height where arch begins		Width	3
		Height at bottom	
		Length	29
Distance from low chord to deck	2.5	Shape of abutments	None
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	20		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	102	Floodplain	N Value
Bank Geom. Horiz.	1	Left	Left Streams in wide valleys
Bank Geom. Vert.	1	Right	Right Clean and Straight - No Rifts or Pools
Bank Full Depth	5.5		
Downstream		Floodplain	N Value
Bottom width (ft)		Left	Left Streams in wide valleys
Bank Geom. Horiz.		Right	Right Clean and Straight - No Rifts or Pools
Bank Geom. Vert.			
Bank Full Depth			
Spans		Bridge Information Structure ID YB 4726 Piers	
Geometry	Box	Number	0
Width	22	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	22
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	0	Type of parapet	Guide Rail
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	22	Floodplain	N Value
Bank Geom. Horiz.	1	Left	Left Streams in wide valleys
Bank Geom. Vert.	1	Right	Right Clean and Straight - No Rifts or Pools
Bank Full Depth	4		
Downstream		Floodplain	N Value
Bottom width (ft)	22	Left	Left Streams in wide valleys
Bank Geom. Horiz.	1	Right	Right Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	4		

Spans		Bridge Information Structure ID YB 5910 Piers	
Geometry	Box	Number	0
Width	22	Shape	
Height	4.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	48
Distance from low chord to deck	0.5	Shape of abutments	None
Distance from deck to parapet	1.5	Type of parapet	Guide Rail
Angle of skew of flow	10		
Upstream		Stream Channel Characteristics	
Downstream		Floodplain	
Bottom width (ft)	13	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	3		
Bottom width (ft)	14	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	20
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	20
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions		Floodplain	
Width	7.5	Left	Light brush and trees
Bottom width		Right	Lawn, with trees and/or fences
Greatest width			
Diameter			
Height	5.5		
Stream Channel Characteristics		N Value	
Upstream		Left	Streams in wide valleys
Bottom width (ft)	7	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Horiz.	2		
Bank Geom. Vert.	1		
Bank Full Depth	8		
Downstream		N Value	
Bottom width (ft)	14	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1		
Bank Full Depth	2.5		

Spans		Bridge Information Structure ID YB 5930 Piers					
Geometry	Arch	Number	0				
Width	9	Shape					
Height	5.5	Width at bottom					
Height where arch begins	0	Width					
		Height at bottom					
		Length	38				
Distance from low chord to deck	2	Shape of abutments	None				
Distance from deck to parapet	1	Type of parapet	Other				
Angle of skew of flow	30						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	17	Left	Cultivated area	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	5						
Downstream		Floodplain		N Value			
Bottom width (ft)	20	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	5.5						
		Bridge Information Structure ID YB 5931 Piers					
Spans							
Geometry	Box	Number	2				
Width	140	Shape	Square nose				
Height	11.5	Width at bottom	4.5				
Height where arch begins		Width	4.5				
		Height at bottom					
		Length	28				
Distance from low chord to deck	3	Shape of abutments	None				
Distance from deck to parapet	3	Type of parapet	Other				
Angle of skew of flow	45						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	140	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Light brush and trees	Right	Clean and Winding - Some Pools and Shoals		
Bank Geom. Vert.	1						
Bank Full Depth	7						
Downstream		Floodplain		N Value			
Bottom width (ft)	150	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	5						

Spans		Bridge Information	
		Structure ID YB 5935	
Spans		Piers	
Geometry	ConSpan	Number	6
Width	688	Shape	Elongated with semi-circular ends
Height	25+	Width at bottom	
Height where arch begins		Width	3
		Height at bottom	
		Length	
Distance from low chord to deck	10	Shape of abutments	
Distance from deck to parapet	5	Type of parapet	
Angle of skew of flow	0		

Upstream		Stream Channel Characteristics	
		Floodplain	
Bottom width (ft)		Left	N Value Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			
Downstream		Floodplain	
Bottom width (ft)		Left	N Value Left
Bank Geom. Horiz		Right	Right

Spans		Bridge Information	
		Structure ID YB 5937	
Spans		Piers	
Geometry	Box	Number	0
Width	37	Shape	
Height	8.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	25.5
Distance from low chord to deck		Shape of abutments	
Distance from deck to parapet		Type of parapet	
Angle of skew of flow			
Upstream		Stream Channel Characteristics	
		Floodplain	
Bottom width (ft)	40	Left	N Value Left Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	3	Right	Right Clean and Straight - Some Stones and Weeds Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream		Floodplain	
Bottom width (ft)	48	Left	N Value Left Medium to dense brush with scattered trees Streams in wide valleys
Bank Geom. Horiz.	3	Right	Right Clean and Straight - Some Stones and Weeds Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	4		

		<div>Bridge Information</div> <div>Structure ID YB 5940</div> <div>Piers</div>			
<div>Spans</div>					
Geometry	Box	Number	1		
Width	101	Shape	Circular		
Height	11	Width at bottom			
Height where arch begins		Width	3		
		Height at bottom			
		Length	21		
Distance from low chord to deck	2.5	Shape of abutments	Vertical		
Distance from deck to parapet	0	Type of parapet	Guide Rail		
Angle of skew of flow	10				
		<div>Stream Channel</div> <div>Characteristics</div>			
<div>Upstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	110	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				
<div>Downstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	95	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	7				
		<div>Bridge Information</div> <div>Structure ID YB 5941</div> <div>Piers</div>			
<div>Spans</div>					
Geometry	Box	Number	0		
Width	16	Shape			
Height	5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	20		
Distance from low chord to deck	1.5	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow	45				
		<div>Stream Channel</div> <div>Characteristics</div>			
<div>Upstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	13	Left	Impervious with structures, commercial	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
<div>Downstream</div>		<div>Floodplain</div>		<div>N Value</div>	
Bottom width (ft)	22	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Paved or impervious	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information Structure ID YB 5945			
Spans		Piers			
Geometry	Box	Number	0		
Width	31	Shape			
Height	10	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	34		
Distance from low chord to deck	4	Shape of abutments	None		
Distance from deck to parapet		Type of parapet	Other		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	12				
Downstream		Floodplain		N Value	
Bottom width (ft)	35	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	4				
		</			

Spans		Bridge Information Structure ID YB 5947 Piers	
Geometry	Box	Number	2
Width	60	Shape	Triangular nose with 60 degree angle
Height	9.5	Width at bottom	5
Height where arch begins		Width	3.5
		Height at bottom	3
		Length	12
Distance from low chord to deck	1.5	Shape of abutments	None
Distance from deck to parapet	4	Type of parapet	Other
Angle of skew of flow	20		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	30	Floodplain	
Bank Geom. Horiz.	3	Left	Impervious with structures, commercial
Bank Geom. Vert.	1	Right	Paved or impervious
Bank Full Depth	4		
Downstream		N Value	
Bottom width (ft)	21	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	12		
Spans		Bridge Information Structure ID YB 5948 Piers	
Geometry	Box	Number	0
Width	9	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	27
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet	1	Type of parapet	Other
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	11	Floodplain	
Bank Geom. Horiz.	3	Left	Lawn, short grass
Bank Geom. Vert.	1	Right	Lawn, with trees and/or fences
Bank Full Depth	4		
Downstream		N Value	
Bottom width (ft)	16	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4		
Spans		Bridge Information Structure ID YB 5948 Piers	
Geometry	Box	Number	0
Width	9	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	27
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet	1	Type of parapet	Other
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	11	Floodplain	
Bank Geom. Horiz.	3	Left	Lawn, short grass
Bank Geom. Vert.	1	Right	Lawn, with trees and/or fences
Bank Full Depth	4		
Downstream		N Value	
Bottom width (ft)	16	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	4		

Angle of Skew

Angle of Skew

Geometry

Headwall to embankment	30
Headwall to pipe	0
Stream to pipe	30

Width

Length	30
Cover to top of deck	1.5

Upstream

N Value	
Left	Streams in wide valleys
Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of

N Value	
Left	Streams in wide valleys
Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of

Geometry

Bridge Information
Structure ID YB 5976
Piers

Piers

Number	0
Shape	
Width at bottom	
Width	
Height at bottom	
Length	21
Shape of abutments	Vertical
Type of parapet	

Upstream

N Value	
Left	Streams in wide valleys
Right	Clean and Straight - No Riffs or Pools

Downstream gain

N Value	
Left	Streams in wide valleys
Right	Clean and Straight - No Rifts or Pools

		Bridge Information Structure ID YB 5977					
Spans		Piers					
Geometry	Box	Number	1				
Width	150	Shape	Elongated with semi-circular ends				
Height	10.5	Width at bottom					
Height where arch begins		Width	3.5				
		Height at bottom					
		Length	32				
Distance from low chord to deck	4	Shape of abutments	Vertical				
Distance from deck to parapet	3	Type of parapet	Concrete Barrier				
Angle of skew of flow	30						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	82	Left	Light brush and trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right	Clean and Straight - No Rifts or Pools		
Bank Geom. Vert.	1						
Bank Full Depth	7						
Downstream		Floodplain		N Value			
Bottom width (ft)	100	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys		
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Straight - No Rifts or Pools		
Bank Geom. Vert.	1						
Bank Full Depth	6						
Culvert Information Culvert ID YB 5981		Barrel Characteristics					
Angle of Skew							
Geometry	Squash Pipe	Headwall to embankment					
Material	CM	Headwall to pipe					
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	20				
Entrance Design	Projected from fill (no headwall)						
Depth barrel is filled	0						
Dimensions							
Width	5.5	Length	40				
Bottom width		Cover to top of deck	2				
Greatest width							
Diameter							
Height	4						
Stream Channel Characteristics							
Upstream		Floodplain		N Value			
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	5						
Downstream		Floodplain		N Value			
Bottom width (ft)	10	Left	Lawn, short grass	Left	Streams in wide valleys		
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Sluggish Reaches - Weedy - Deep Pools		
Bank Geom. Vert.	1						
Bank Full Depth	3						

Culvert Information			
Culvert ID YB 5982			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	20
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	34
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	2		
Height			
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	4	Floodplain	N Value
		Left	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Right Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream			
Bottom width (ft)	6	Floodplain	N Value
		Left	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Right =
Bank Geom. Vert.	1		
Bank Full Depth	4		

Culvert Information			
Culvert ID YB 5986			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	41
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	6		
Height			
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	11	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Medium to dense brush with scattered trees
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	5		
Downstream			
Bottom width (ft)	16	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Lawn, with trees and/or fences
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - More Stones

Culvert Information					
Culvert ID YB 5987					
Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	30		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	4.5	Length	44		
Bottom width		Cover to top of deck	2		
Greatest width					
Diameter					
Height	3.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	3				
Downstream		Floodplain		N Value	
Bottom width (ft)	8	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Sluggish Reaches - Weedy - Deep Pools
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
		Bridge Information			
		Structure ID YB 5988			
Spans		Piers			
Geometry	Other	Number	0		
Width	131	Shape			
Height	13.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	16		
Distance from low chord to deck	1	Shape of abutments	Sloping		
Distance from deck to parapet		Type of parapet	Other		
Angle of skew of flow	30				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	106	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	107	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	7				

Culvert Information				
Culvert ID YB 6210				
Angle of Skew		Barrel Characteristics		
Geometry	Elliptical	Headwall to embankment		
Material	RC	Headwall to pipe		
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	0	
Entrance Design	Socket end of pipe (flared end)			
Depth barrel is filled	0			
Dimensions				
Width	2.5	Length	43	
Bottom width		Cover to top of deck	1.5	
Greatest width				
Diameter				
Height	2			
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	9	Floodplain		N Value
		Left	Lawn, short grass	Left
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right
Bank Geom. Vert.	1			
Bank Full Depth	4			
Downstream				
Bottom width (ft)	8	Floodplain		N Value
		Left	Light brush and trees	Left
Bank Geom. Horiz.	4	Right	Light brush and trees	Right
Bank Geom. Vert.	1			
Bank Full Depth	1			

Culvert Information				
Culvert ID YB 6305				
Angle of Skew		Barrel Characteristics		
Geometry	Box	Headwall to embankment		
Material	CM	Headwall to pipe		
Entrance Type	Headwall Parallel to Embankment (no Stream to pipe wingwalls)	45		
Entrance Design	Square-edged on three edges			
Depth barrel is filled	0			
Dimensions				
Width	1.5	Length	43	
Bottom width		Cover to top of deck		
Greatest width				
Diameter				
Height	1			
Stream Channel Characteristics				
Upstream				
		Floodplain		N Value
Bottom width (ft)		Left	Lawn, short grass	Left
Bank Geom. Horiz.		Right	Lawn, short grass	Right
Bank Geom. Vert.				
Bank Full Depth				
Downstream				
		Floodplain		N Value
Bottom width (ft)	6	Left	Light brush and trees	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, short grass	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1			
Bank Full Depth	1.5			

N Value	
Left	Streams in wide valleys
Right	Clean and Winding - More Stones

Culvert Information			
Culvert ID YB 6955			
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width	4.5	Length	55
Bottom width		Cover to top of deck	4
Greatest width			
Diameter			
Height	3		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	17	Floodplain	N Value
Bank Geom. Horiz.	3	Left Lawn, short grass	Left Streams in wide valleys
Bank Geom. Vert.	1	Right Lawn, short grass	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Full Depth	4		
Downstream			
Bottom width (ft)	15	Floodplain	N Value
Bank Geom. Horiz.	4	Left Lawn, short grass	Left Streams in wide valleys
Bank Geom. Vert.	1	Right Scattered brush, heavy weeds	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Full Depth	3		

Culvert Information			
Culvert ID YB 6995			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	57
Bottom width		Cover to top of deck	2
Greatest width			
Diameter	3		
Height			
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	6	Floodplain	N Value
Bank Geom. Horiz.	3	Left Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Vert.	1	Right Lawn, with trees and/or fences	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Full Depth	4		
Downstream			
Bottom width (ft)	7	Floodplain	N Value
Bank Geom. Horiz.	3	Left Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Vert.	1	Right Medium to dense brush with scattered trees	Right Sluggish Reaches - Weedy - Deep Pools
Bank Full Depth	4		

Spans		Bridge Information Structure ID YB 7010	
Geometry		Piers	
Width	Box	Number	0
Height	18	Shape	
Height where arch begins	6.5	Width at bottom	
		Width	
		Height at bottom	
		Length	20
Distance from low chord to deck	2.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	45		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	14	Left	Light brush and trees
Bank Geom. Horiz.	2	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	8		
Downstream		Floodplain	
Bottom width (ft)	16	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - More Stones
		N Value	
		Left	Streams in wide valleys
		Right	Sluggish Reaches - Weedy - Deep Pools
Spans		Bridge Information Structure ID YB 7110	
Geometry		Piers	
Width	Box	Number	0
Height	24	Shape	
Height where arch begins	9	Width at bottom	
		Width	
		Height at bottom	
		Length	15
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	19	Left	Scattered brush, heavy weeds
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream		Floodplain	
Bottom width (ft)	12	Left	Lawn, short grass
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences
Bank Geom. Vert.	1		
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds

Spans

Number	1
Shape	Triangular nose with 30 degree angle
Width at bottom	4
Width	4
Height at bottom	
Length	19
Shape of abutments	Vertical
Type of parapet	Guide Rail

Upstream

Floodplain

N Value

Left	Streams in wide valleys
Right	Clean and Straight - No Riffs or Pools

Downstream

Floodplain

N Value

Left	Streams in wide valleys
Right	Clean and Straight - No Rifts or Pools

Culvert Information
Culvert ID YB 7810

Angle of Skew

Geometry	Elliptical
Material	CM
Entrance Type	Corrugated Metal Pipe or Pipe-Arch
Entrance Design	Headwall or headwall and wingwalls
Depth barrel is filled	square edge 0

Barrel Characteristics

Headwall to embankment	45
Headwall to pipe	0
Stream to pipe	30

Dimensions

Width	10	Length	31
Bottom width		Cover to top of deck	1
Greatest width			
Diameter			
Height	6		

Stream Channel Characteristics Upstream

Bottom width (ft)	7
Bank Geom. Horiz.	3
Bank Geom. Vert.	1
Bank Full Depth	5

Floodplain

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush with scattered trees

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Stones and Weeds

Downstream

Floodplain

Left	Medium to dense brush with scattered trees
Right	Medium to dense brush

N Value

Left	Streams in wide valleys
Right	Clean and Winding - Some Pools and Shoals

Culvert Information					
Culvert ID YB 7876					
Angle of Skew		Barrel Characteristics			
Geometry	Elliptical	Headwall to embankment	80		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	75		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width	7.5	Length	55		
Bottom width		Cover to top of deck	3.5		
Greatest width					
Diameter					
Height	4				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	6	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	1				
Downstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				

Culvert Information			
Culvert ID YB 8210			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	90
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	90
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width		Length	30
Bottom width		Cover to top of deck	1
Greatest width			
Diameter	6		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
Downstream		Floodplain	N Value
Bottom width (ft)		Left	Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			

Culvert Information				
Culvert ID YB 8305				
Barrel Characteristics				
Angle of Skew				
Geometry	Elliptical	Headwall to embankment	60	
Material	CM	Headwall to pipe	0	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	30	
Entrance Design	Headwall or headwall and wingwalls square edge			
Depth barrel is filled	0			
Dimensions				
Width	9.5	Length	41	
Bottom width		Cover to top of deck	1	
Greatest width				
Diameter				
Height	4.5			
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	6	Floodplain Left	Paved or impervious	N Value Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	4.5			
Downstream				
Bottom width (ft)	10	Floodplain Left	Medium to dense brush with scattered trees	N Value Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Paved or impervious	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	5			

Culvert Information				
Culvert ID YB 8410				
Barrel Characteristics				
Angle of Skew				
Geometry	Elliptical	Headwall to embankment	60	
Material	CM	Headwall to pipe	0	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	90	
Entrance Design	Headwall or headwall and wingwalls square edge			
Depth barrel is filled	0			
Dimensions				
Width	9	Length	45	
Bottom width		Cover to top of deck	1.5	
Greatest width				
Diameter				
Height	4.5			
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	6	Floodplain Left	Medium to dense brush with scattered trees	N Value Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Medium to dense brush	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1			
Bank Full Depth	4.5			
Downstream				
Bottom width (ft)	4	Floodplain Left	Medium to dense brush	N Value Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1			
Bank Full Depth	3.5			

		Bridge Information Structure ID YB 8425		
Spans		Piers		
Geometry	Box	Number	0	
Width	23	Shape		
Height	7.5	Width at bottom		
Height where arch begins		Width		
		Height at bottom		
		Length	35	
Distance from low chord to deck	3	Shape of abutments	Vertical	
Distance from deck to parapet		Type of parapet	Guide Rail	
Angle of skew of flow				
		Stream Channel Characteristics		
Upstream		Floodplain		N Value
Bottom width (ft)	18	Left	Light brush and trees	Left
Bank Geom. Horiz.	2	Right	Light brush and trees	Right
Bank Geom. Vert.	1			
Bank Full Depth	6			
Downstream		Floodplain		N Value
Bottom width (ft)	20	Left	Light brush and trees	Left
Bank Geom. Horiz.	3	Right	Lawn with buildings	Right
		Bridge Information Structure ID YB 8450		
Spans		Piers		
Geometry	Box	Number	1	
Width	116	Shape	Elongated with semi-circular ends	
Height	6	Width at bottom		
Height where arch begins		Width	3	
		Height at bottom		
		Length	47	
Distance from low chord to deck	2	Shape of abutments	Vertical	
Distance from deck to parapet	3	Type of parapet	Guide Rail	
Angle of skew of flow	20			
		Stream Channel Characteristics		
Upstream		Floodplain		N Value
Bottom width (ft)	85	Left	Paved or impervious	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1			
Bank Full Depth	5			
Downstream		Floodplain		N Value
Bottom width (ft)	80	Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	4			

Culvert Information					
Culvert ID YB 8610					
Angle of Skew		Barrel Characteristics			
Geometry	Box	Headwall to embankment	30		
Material	RC	Headwall to pipe			
Entrance Type	Headwall Parallel to Embankment (no wingwalls)	Stream to pipe	45		
Entrance Design	Square-edged on three edges				
Depth barrel is filled	0				
Dimensions					
Width	15	Length	38		
Bottom width		Cover to top of deck	1.5		
Greatest width					
Diameter					
Height	5.5				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
		Bridge Information			
		Structure ID YB 8610			
Spans		Piers			
Geometry	Box	Number	0		
Width	15	Shape			
Height	5.5	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length			
Distance from low chord to deck		Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet	Guide Rail		
Angle of skew of flow					
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Paved or impervious	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Scattered brush, heavy weeds	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	3.5				

Spans		Bridge Information Structure ID YB 8705	
		Piers	
Geometry	Box	Number	0
Width	40	Shape	
Height	4	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	65
Distance from low chord to deck	2	Shape of abutments	Other
Distance from deck to parapet	3	Type of parapet	Other
Angle of skew of flow	90		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	8	Left	Paved or impervious
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
Downstream		Floodplain	
Bottom width (ft)	7	Left	Paved or impervious
Bank Geom. Horiz.	3	Right	Medium to dense brush
Bank Geom. Vert.	1		
Bank Full Depth	4		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
Spans		Bridge Information Structure ID YB 8820	
		Piers	
Geometry	Box	Number	1
Width	26	Shape	Elongated with semi-circular ends
Height	4.5	Width at bottom	
Height where arch begins		Width	4
		Height at bottom	
		Length	37
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet	2.5	Type of parapet	Guide Rail
Angle of skew of flow	20		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	93	Left	Lawn, with buildings
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
Downstream		Floodplain	
Bottom width (ft)	106	Left	Medium to dense brush with scattered trees
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - No Rifts or Pools
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - No Rifts or Pools

Spans		Bridge Information Structure ID YB 8910	
		Piers	
Geometry	Box	Number	0
Width	17	Shape	
Height	4.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	26
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	30		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	9	Left	Lawn, with trees and/or fences
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
Downstream		Floodplain	
Bottom width (ft)	9	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
Spans		Bridge Information Structure ID YB 8930	
		Piers	
Geometry	Box	Number	0
Width	26	Shape	
Height	4.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	36
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	0		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	14	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Straight - Some Stones and Weeds
Downstream		Floodplain	
Bottom width (ft)	10	Left	Lawn, with trees and/or fences
Bank Geom. Horiz.	35	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth			
		N Value	
		Left	Streams in wide valleys
		Right	Sluggish Reaches - Weedy - Deep Pools

Culvert Information			
Culvert ID YB 8936			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	63
Bottom width		Cover to top of deck	8
Greatest width			
Diameter	1.5		
Height			
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	4	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Left
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	3		Right
Downstream			
Bottom width (ft)		Floodplain	N Value
Bank Geom. Horiz.		Left	Left
Bank Geom. Vert.		Right	Right
Bank Full Depth			

Culvert Information			
Culvert ID YB 8965			
Angle of Skew		Barrel Characteristics	
Geometry	Elliptical	Headwall to embankment	45
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	45
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width	5.5	Length	17
Bottom width		Cover to top of deck	1
Greatest width			
Diameter			
Height	3.5		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	10	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Left
Bank Geom. Vert.	1	Right	Lawn, with trees and/or fences
Bank Full Depth	4.5		Right
Downstream			
Bottom width (ft)	15	Floodplain	N Value
Bank Geom. Horiz.	3	Left	Left
Bank Geom. Vert.	1	Right	Light brush and trees
Bank Full Depth	5		Right

Geometry	Box
Material	RC
Entrance Type	Headwall Parallel to Embankment (wingwalls)
Entrance Design	Square-edged on three edges
Depth barrel is filled	0

Width	9
Bottom width	
Greatest width	
Diameter	
Height	5

Bank Full Depth	4
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Bank Full Depth	4
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Medium to dense brush with scattered trees

Clean and Winding - More Stones

Medium to dense brush with scattered trees

Clean and Winding - More Stones

Angle of skew of flow	0
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Length

Cultivated area

Sluggish Reaches - Weedy - Deep Pools

Bank Full Depth	4.5
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Bank Full Depth	2.5
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Medium to dense brush with scattered trees

Sluggish Reaches - Weedy - Deep Pools

Spans		Bridge Information	
		Structure ID YB 8982	
		Piers	
Geometry	Box	Number	0
Width	6	Shape	
Height	6	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	41.5
Distance from low chord to deck	1	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Other
Angle of skew of flow	0		
		Stream Channel Characteristics	
Upstream			
		Floodplain	N Value
Bottom width (ft)	12	Left	Lawn, with trees and/or fences Left
Bank Geom. Horiz.	3	Right	Cultivated area Right
Bank Geom. Vert.	1		
Bank Full Depth	4		
Downstream			
		Floodplain	N Value
Bottom width (ft)	14	Left	Medium to dense brush Left
Bank Geom. Horiz.	4	Right	Medium to dense brush Right
Culvert Information			
Culvert ID YB 8993			
		Barrel Characteristics	
Angle of Skew			
Geometry	Elliptical	Headwall to embankment	45
Material	CM	Headwall to pipe	45
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0		
Dimensions			
Width	5.5	Length	34
Bottom width		Cover to top of deck	2
Greatest width			
Diameter			
Height	3		
Stream Channel Characteristics			
Upstream			
		Floodplain	N Value
Bottom width (ft)	8	Left	Medium to dense brush with scattered trees Left
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees Right
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream			
		Floodplain	N Value
Bottom width (ft)	10	Left	Scattered brush, heavy weeds Left
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds Right
Bank Geom. Vert.	1		
Bank Full Depth	4		

Spans		Bridge Information Structure ID YB 9005 Piers					
Geometry	Box	Number	0				
Width	17	Shape					
Height	6	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	32				
Distance from low chord to deck	1.5	Shape of abutments	None				
Distance from deck to parapet		Type of parapet	Guide Rail				
Angle of skew of flow	60						
Upstream		Stream Channel Characteristics					
		Floodplain		N Value			
Bottom width (ft)	9	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds		
Bank Geom. Vert.	1						
Bank Full Depth	3						
		Floodplain		N Value			
Bottom width (ft)	7	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones		
Bank Geom. Vert.	1						
Bank Full Depth	4.5						
Spans		Bridge Information Structure ID YB 9006 Piers					
Geometry	Other	Number	0				
Width	105	Shape					
Height	7.5	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	17				
Distance from low chord to deck	3	Shape of abutments	Vertical				
Distance from deck to parapet		Type of parapet	Other				
Angle of skew of flow	10						
Upstream		Stream Channel Characteristics					
		Floodplain		N Value			
Bottom width (ft)	73	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools		
Bank Geom. Vert.	1						
Bank Full Depth	5.5						
		Floodplain		N Value			
Bottom width (ft)	83	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Straight - No Rifts or Pools		
Bank Geom. Vert.	1						
Bank Full Depth	5.5						

Culvert Information				
Culvert ID YB 9015				
Barrel Characteristics				
Angle of Skew				
Geometry	Circular	Headwall to embankment		
Material	RC	Headwall to pipe		
Entrance Type	Concrete Pipe Projecting from Fill (no headwall)	Stream to pipe	20	
Entrance Design	Socket end of pipe (flared end)			
Depth barrel is filled	0			
Dimensions				
Width		Length	78	
Bottom width		Cover to top of deck	4.5	
Greatest width				
Diameter	6			
Height				
Stream Channel Characteristics				
Upstream				
Bottom width (ft)	6	Floodplain		N Value
		Left	Medium to dense brush	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Light brush and trees	Right Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1			
Bank Full Depth	5.5			
Downstream				
Bottom width (ft)	18	Floodplain		N Value
		Left	Medium to dense brush with scattered trees	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right Clean and Winding - More Stones
Bank Geom. Vert.	1			
Bank Full Depth	5			

Culvert Information					
Culvert ID YB 9045					
Barrel Characteristics					
Angle of Skew					
Geometry	Elliptical	Headwall to embankment	10		
Material	CM	Headwall to pipe	0		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0		
Entrance Design					
		Headwall or headwall and wingwalls square edge			
Depth barrel is filled		0			
Dimensions					
Width	5	Length	40		
Bottom width		Cover to top of deck	3		
Greatest width					
Diameter					
Height	2.5				
Stream Channel Characteristics					
Upstream					
		Floodplain	N Value		
Bottom width (ft)	5	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Straight - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream					
		Floodplain	N Value		
Bottom width (ft)	14	Left	Lawn, with buildings	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1				
Bank Full Depth	4				

		Bridge Information			
		Structure ID YB 9065			
Spans		Piers			
Geometry	Arch	Number	3		
Width	135	Shape	Triangular nose with 30 degree angle		
Height	10.5	Width at bottom	7		
Height where arch begins		Width	2		
		Height at bottom			
		Length	23		
Distance from low chord to deck	5	Shape of abutments	None		
Distance from deck to parapet	2	Type of parapet	Other		
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	120	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	4				
Downstream		Floodplain		N Value	
Bottom width (ft)	110	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Culvert Information					
Culvert ID YB 9110		Barrel Characteristics			
Angle of Skew					
Geometry	Box	Headwall to embankment	0		
Material	RC	Headwall to pipe			
Entrance Type	Headwall Parallel to Embankment (no wingwalls)	Stream to pipe			
Entrance Design	Square-edged on three edges				
Depth barrel is filled	1.5				
Dimensions					
Width	21	Length	1		
Bottom width		Cover to top of deck	2.5		
Greatest width					
Diameter					
Height	6				
Stream Channel Characteristics					
Upstream		Floodplain		N Value	
Bottom width (ft)	10	Left	Medium to dense brush	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Lawn, with buildings	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5.5				
Downstream		Floodplain		N Value	
Bottom width (ft)	7	Left	Pasture or field with no brush	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	3				

Spans		Bridge Information Structure ID YB 9130 Piers	
Geometry	Box	Number	0
Width	12	Shape	
Height	7.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	32
Distance from low chord to deck	1	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Guide Rail
Angle of skew of flow	30		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	10	Floodplain	
Bank Geom. Horiz.	2	Left	Medium to dense brush with scattered trees
Bank Geom. Vert.	1	Right	Medium to dense brush with scattered trees
Bank Full Depth	5		
Downstream		N Value	
Bottom width (ft)	8	Left	Streams in wide valleys
Bank Geom. Horiz.	2	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
Spans		Bridge Information Structure ID YB 9135 Piers	
Geometry	Box	Number	0
Width	10	Shape	
Height	5.5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	32
Distance from low chord to deck	1.5	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	75		
Upstream		Stream Channel Characteristics	
Bottom width (ft)	12	Floodplain	
Bank Geom. Horiz.	4	Left	Lawn, short grass
Bank Geom. Vert.	1	Right	Lawn, with buildings
Bank Full Depth	4		
Downstream		N Value	
Bottom width (ft)	11	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Clean and Winding - More Stones
Bank Geom. Vert.	1		
Bank Full Depth	4.5		

Culvert Information					
Culvert ID YB 9150					
Angle of Skew		Barrel Characteristics			
Geometry	Circular	Headwall to embankment	60		
Material	CM	Headwall to pipe	75		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	60		
Entrance Design	Headwall or headwall and wingwalls square edge				
Depth barrel is filled	0				
Dimensions					
Width		Length	187		
Bottom width		Cover to top of deck	4		
Greatest width					
Diameter	3.5				
Height					
Stream Channel Characteristics					
Upstream		Floodplain	N Value		
Bottom width (ft)	4	Left	Lawn, short grass	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, with trees and/or fences	Right	Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1				
Bank Full Depth	3.5				
Downstream		Floodplain	N Value		
Bottom width (ft)		Left		Left	
Bank Geom. Horiz.		Right		Right	
Bank Geom. Vert.					
Bank Full Depth					

Culvert Information			
Culvert ID YB 9160			
Angle of Skew		Barrel Characteristics	
Geometry	Box	Headwall to embankment	30
Material	RC	Headwall to pipe	
Entrance Type	Wingwalls at 30 to 75 degrees to Barrel	Stream to pipe	
Entrance Design	Square-edge at crown		
Depth barrel is filled	0		
Dimensions			
Width	12	Length	37
Bottom width		Cover to top of deck	0.5
Greatest width			
Diameter			
Height	4.5		
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	8	Left	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right	Right Clean and Winding - More Stones
Bank Geom. Vert.	1		
Bank Full Depth	4.5		
Downstream		Floodplain	N Value
Bottom width (ft)	7	Left	Left Streams in wide valleys
Bank Geom. Horiz.	2	Right	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1		
Bank Full Depth	5.5		

Culvert Information			
Culvert ID YB 9175			
Angle of Skew		Barrel Characteristics	
Geometry	Squash Pipe	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width	5	Length	41
Bottom width		Cover to top of deck	2.5
Greatest width			
Diameter			
Height	3		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	7	Floodplain	N Value
		Left	Left
			Scattered brush, heavy weeds
Bank Geom. Horiz.	4	Right	Right
			Scattered brush, heavy weeds
Bank Geom. Vert.	1		
Bank Full Depth	5		
Downstream			
Bottom width (ft)	7	Floodplain	N Value
		Left	Left
			Scattered brush, heavy weeds
Bank Geom. Horiz.	3	Right	Right
			Pasture or field with no brush
Bank Geom. Vert.	1		
Bank Full Depth	4		

Culvert Information			
Culvert ID YB 9180			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	1		
Dimensions			
Width		Length	30
Bottom width		Cover to top of deck	3
Greatest width			
Diameter	4		
Height			
Stream Channel Characteristics			
Upstream			
		Floodplain	N Value
Bottom width (ft)	8	Left	Left
Bank Geom. Horiz.	4	Right	Right
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream			
		Floodplain	N Value
Bottom width (ft)		Left	Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			

Culvert Information			
Culvert ID YB 9181			
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	
Material	RC	Headwall to pipe	
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	
Entrance Design	Square cut end of pipe (straight end)		
Depth barrel is filled	0		
Dimensions			
Width		Length	
Bottom width		Cover to top of deck	17
Greatest width			
Diameter	6		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)		Left	Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			
Downstream		Floodplain	N Value
Bottom width (ft)		Left	Left
Bank Geom. Horiz.		Right	Right
Bank Geom. Vert.			
Bank Full Depth			

Culvert Information				
Culvert ID YB 9190				
Angle of Skew		Barrel Characteristics		
Geometry	Circular	Headwall to embankment		
Material	CM	Headwall to pipe		
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe		
Entrance Design	Headwall or headwall and wingwalls square edge			
Depth barrel is filled	0			
Dimensions				
Width		Length	42	
Bottom width		Cover to top of deck	6	
Greatest width				
Diameter	4.5			
Height				
Stream Channel Characteristics				
Upstream		Floodplain		N Value
Bottom width (ft)	6.5	Left	Lawn, short grass	Left
Bank Geom. Horiz.	3	Right	Scattered brush, heavy weeds	Right
Bank Geom. Vert.	1			
Bank Full Depth	5.5			
Downstream		Floodplain		N Value
Bottom width (ft)	8	Left	Pasture or field with no brush	Left
Bank Geom. Horiz.	4	Right	Pasture or field with no brush	Right
Bank Geom. Vert.	1			
Bank Full Depth	3			

		Bridge Information Structure ID YB 9197					
Spans		Piers					
Geometry	Other	Number	0				
Width	138	Shape					
Height	14	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	30				
Distance from low chord to deck	3	Shape of abutments	Vertical				
Distance from deck to parapet		Type of parapet	Guide Rail				
Angle of skew of flow	20						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	145	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right			
Bank Geom. Vert.	1						
Bank Full Depth	10						
Downstream		Floodplain		N Value			
Bottom width (ft)	120	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	2	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - More Stones		
Bank Geom. Vert.	1						
Bank Full Depth	5.5						
		Bridge Information Structure ID YB 9197.2					
Spans		Piers					
Geometry	Other	Number	0				
Width	30	Shape					
Height	9	Width at bottom					
Height where arch begins		Width					
		Height at bottom					
		Length	30				
Distance from low chord to deck	3	Shape of abutments	Vertical				
Distance from deck to parapet		Type of parapet	Guide Rail				
Angle of skew of flow	45						
		Stream Channel Characteristics					
Upstream		Floodplain		N Value			
Bottom width (ft)	30	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	1	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Pools and Shoals		
Bank Geom. Vert.	1						
Bank Full Depth	6						
Downstream		Floodplain		N Value			
Bottom width (ft)	30	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys		
Bank Geom. Horiz.	1	Right	Lawn, with buildings	Right	Clean and Winding - Some Pools and Shoals		
Bank Geom. Vert.	1						
Bank Full Depth	6						

Spans		Bridge Information Structure ID YB 9198 Piers	
Geometry	Other	Number	0
Width	136	Shape	
Height	12	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	16
Distance from low chord to deck	3	Shape of abutments	Vertical
Distance from deck to parapet		Type of parapet	Guide Rail
Angle of skew of flow	0		
Upstream		Stream Channel Characteristics	
		Floodplain	N Value
Bottom width (ft)	130	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Medium to dense brush with scattered trees Right Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	7		
Downstream		Floodplain	N Value
Bottom width (ft)	114	Left	Medium to dense brush with scattered trees Left Streams in wide valleys
Bank Geom. Horiz.	4	Right	Lawn, with trees and/or fences Right Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	8		
Culvert Information Culvert ID YB 9310		Barrel Characteristics	
Angle of Skew			
Geometry	Circular	Headwall to embankment	0
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Headwall or headwall and wingwalls		
Depth barrel is filled	square edge 0		
Dimensions			
Width		Length	55
Bottom width		Cover to top of deck	8.5
Greatest width			
Diameter	5		
Height			
Stream Channel Characteristics			
Upstream		Floodplain	N Value
Bottom width (ft)	12	Left	Light brush and trees Left
Bank Geom. Horiz.	3	Right	Light brush and trees Right
Bank Geom. Vert.	1		
Bank Full Depth	4.5		
Downstream		Floodplain	N Value
Bottom width (ft)	18	Left	Pasture or field with no brush Left
Bank Geom. Horiz.	4	Right	Pasture or field with no brush Right
Bank Geom. Vert.	1		
Bank Full Depth	4		

		Bridge Information	
		Structure ID YB 9320	
Spans		Piers	
Geometry	Box	Number	0
Width	10	Shape	
Height	5	Width at bottom	
Height where arch begins		Width	
		Height at bottom	
		Length	40
Distance from low chord to deck	2.5	Shape of abutments	None
Distance from deck to parapet		Type of parapet	Concrete Barrier
Angle of skew of flow	0		
		Stream Channel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	11	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
Downstream		Floodplain	
Bottom width (ft)	9	Left	Lawn, with buildings
Bank Geom. Horiz.	3	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	3.5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - More Stones
		N Value	
		Left	
		Right	
		Culvert Information	
		Culvert ID YB 9330	
Angle of Skew		Barrel Characteristics	
Geometry	Circular	Headwall to embankment	0
Material	RC	Headwall to pipe	0
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls	Stream to pipe	30
Entrance Design	Square cut end of pipe (straight end)		
Depth barrel is filled	0		
Dimensions		Barrel Characteristics	
Width		Length	164
Bottom width		Cover to top of deck	18
Greatest width			
Diameter	5		
Height			
Stream Channel Characteristics		Barrel Characteristics	
Upstream		Floodplain	
Bottom width (ft)	7	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	4.5		
Downstream		Floodplain	
Bottom width (ft)	11	Left	Light brush and trees
Bank Geom. Horiz.	3	Right	Light brush and trees
Bank Geom. Vert.	1		
Bank Full Depth	5.5		
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds
		N Value	
		Left	Streams in wide valleys
		Right	Clean and Winding - Some Stones and Weeds

Spans		Bridge Information Structure ID YB 9455 Piers	
Geometry	Box	Number	1
Width	136	Shape	Square nose
Height	17	Width at bottom	
Height where arch begins		Width	3
		Height at bottom	
		Length	42
Distance from low chord to deck	2	Shape of abutments	Vertical
Distance from deck to parapet	3	Type of parapet	Concrete Barrier
Angle of skew of flow	0		

Upstream		Stream Channel Characteristics	
Floodplain		N Value	
Bottom width (ft)	115	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream		Floodplain	
Bottom width (ft)	121	Left	Streams in wide valleys
Bank Geom. Horiz.	4	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	6		

Culvert Information Culvert ID YB 9711		Barrel Characteristics	
Angle of Skew		Floodplain	
Geometry	Arch	Left	Streams in wide valleys
Material	RC	Right	Clean and Straight - No Rifts or Pools
Entrance Type	Concrete Pipe with Headwall or Headwall and Wingwalls		
Entrance Design	Square cut end of pipe (straight end)		
Depth barrel is filled	0		
Dimensions		N Value	
Width		Left	Streams in wide valleys
Bottom width	16	Right	Clean and Straight - No Rifts or Pools
Greatest width			
Diameter			
Height	10		
Stream Channel Characteristics		Floodplain	
Upstream		Left	Streams in wide valleys
Bottom width (ft)	21	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Horiz.	0		
Bank Geom. Vert.	1		
Bank Full Depth	3		
Downstream		Floodplain	
Bottom width (ft)	10	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1		
Bank Full Depth	3		

Culvert Information			
Culvert ID YB 9712			
Angle of Skew		Barrel Characteristics	
Geometry	Arch	Headwall to embankment	
Material	CM	Headwall to pipe	
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Projected from fill (no headwall)		
Depth barrel is filled	0		
Dimensions			
Width		Length	42
Bottom width	11	Cover to top of deck	1.5
Greatest width			
Diameter			
Height	5		
Stream Channel Characteristics			
Upstream			
Bottom width (ft)	14	Floodplain	N Value
		Left	Lawn, with buildings
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees
Bank Geom. Vert.	1		
Bank Full Depth	6		
Downstream			
Bottom width (ft)	12	Floodplain	N Value
		Left	Lawn, short grass
Bank Geom. Horiz.	3	Right	Lawn, with buildings
Bank Geom. Vert.	1		
Bank Full Depth	5		

Culvert Information			
Culvert ID YB 9810			
Angle of Skew		Barrel Characteristics	
Geometry	Arch	Headwall to embankment	0
Material	CM	Headwall to pipe	0
Entrance Type	Corrugated Metal Pipe or Pipe-Arch	Stream to pipe	0
Entrance Design	Headwall or headwall and wingwalls square edge		
Depth barrel is filled	0.5		
Dimensions			
Width		Length	36
Bottom width	5	Cover to top of deck	2
Greatest width			
Diameter			
Height	3		
Stream Channel Characteristics			
Upstream			
		Floodplain	N Value
Bottom width (ft)	5	Left Lawn, with trees and/or fences	Left Streams in wide valleys
Bank Geom. Horiz.	4	Right Lawn, short grass	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1		
Bank Full Depth	2.5		
Downstream			
		Floodplain	N Value
Bottom width (ft)	12	Left Scattered brush, heavy weeds	Left Streams in wide valleys
Bank Geom. Horiz.	3	Right Light brush and trees	Right Very Weedy - Deep Pools - Floodways with Heavy Stands of
Bank Geom. Vert.	1		
Bank Full Depth	4		

		Bridge Information Structure ID YB 9945			
Spans		Piers			
Geometry	Box	Number	0		
Width	13.5	Shape			
Height	6	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	42		
Distance from low chord to deck	1.5	Shape of abutments	None		
Distance from deck to parapet	2	Type of parapet	Concrete Barrier		
Angle of skew of flow	20				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	14	Left	Medium to dense brush with scattered trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Medium to dense brush with scattered trees	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	5				
Downstream		Floodplain		N Value	
Bottom width (ft)	21	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	0	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	3				
		Bridge Information Structure ID YB 10105			
Spans		Piers			
Geometry	Box	Number	0		
Width	8.5	Shape			
Height	4	Width at bottom			
Height where arch begins		Width			
		Height at bottom			
		Length	50		
Distance from low chord to deck	2.5	Shape of abutments	Vertical		
Distance from deck to parapet		Type of parapet			
Angle of skew of flow	0				
		Stream Channel Characteristics			
Upstream		Floodplain		N Value	
Bottom width (ft)	11	Left	Light brush and trees	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Light brush and trees	Right	Clean and Straight - No Rifts or Pools
Bank Geom. Vert.	1				
Bank Full Depth	6				
Downstream		Floodplain		N Value	
Bottom width (ft)	9	Left	Lawn, with trees and/or fences	Left	Streams in wide valleys
Bank Geom. Horiz.	3	Right	Lawn, short grass	Right	Clean and Winding - Some Stones and Weeds
Bank Geom. Vert.	1				
Bank Full Depth	6				

APPENDIX D - HYDROLOGIC MODEL PREPARATION

APPENDIX D HYDROLOGIC MODEL PREPARATION

1. EXISTING CONDITIONS MODEL

RAINFALL DATA

In conformance with the model ordinance, the National Weather Service's Precipitation Frequency Data Server (<http://hdsc.nws.noaa.gov/hdsc/pfds/index.html>) was accessed to determine the 24-hour rainfall depths to be used within the HEC-HMS model. The following precipitation estimates for the centroid of Cumberland County were obtained. Within the HMS model, these 24-hour rainfall depths were distributed across a 24-hour period using the SCS Type II rainfall distribution curve, as recommended by Figure B-2 of the USDA NRCS Technical Release 55 (or, TR-55), June 1986.

Average Recurrence Interval (years)	24-Hour Rainfall (inches)
2	2.89
5	3.63
10	4.28
25	5.30
50	6.23
100	7.32

As part of the Stormwater Management Plan preparation, the Qualified Professional shall not rely upon the rainfall depths tabulated above. Rather, as specified in the ordinance, the Qualified Professional shall develop the Stormwater Management Plan based upon rainfall depths secured from the Precipitation Frequency Data Server to account for periodic updates by the National Weather Service.

SUBWATERSHED AREA

Subwatersheds were delineated within the study area to arrive at approximately 75 to 100 areas. As a first effort, subwatershed delineations were established at major confluences and junctions with the Conodoguinet and Yellow Breeches stream network (such as the confluences with LeTort Spring Run, Cedar Run, Old Town Run, etc.). These major level delineations were then evaluated to determine appropriate break points (such as major highways, geologic features, urban and rural transitions, smaller tributary confluences, etc.) to establish smaller scale subwatersheds. This process was repeated until the study area was divided into 75 to 100 subwatersheds of approximately equal size. This effort has resulted in 87 subwatersheds within this study.

Four additional subwatersheds were added to the HMS model to account for sources of runoff that are outside of the study area (namely, Mountain Creek, Upper Yellow Breeches Creek, Alexanders Spring Creek, and Upper Conodoguinet Creek). The hydrologic model relies upon historical gage data for calibration purposes. The gage data relate to the entire watershed. Therefore, the four additional subwatersheds were required to be added to the hydrological model to provide an accurate comparison between model results and gage data. As opposed to the subwatershed delineation effort used in the study area, these four flow contributions are modeled as a singular watershed area.

LAND COVER – SCS CURVE NUMBER

Existing and future land uses as well as hydrologic soil types were mapped throughout the entire watershed using GIS software. SCS curve numbers (secured from Table 2-2 of TR-55) were assigned to each combination of land use and hydrologic soil group. This matrix of land use and soil group was used to determine a composite curve number for each subwatershed. The composite curve numbers (existing and future) were used in HEC-HMS to model runoff from each subwatershed.

LAG TIME

Times of concentration were computed for each subwatershed as outlined in TR-55. Sheet flow, shallow concentrated flow, and channel flow were added to obtain the times of concentration. The lag time for each subwatershed is then calculated as 0.6 times the time of concentration (as suggested in Chapter 6 of HEC-HMS Technical Reference Manual). Basically speaking, the lag time is the time required for the centroid of the rainfall to exit each subwatershed.

REACH ROUTINGS

Stream channel reach routings and associated lag times were modeled using the Muskingum-Cunge 8-point method. In this method, the channel cross section is approximated by 8 data points, which define the width and depth of the main channel and overbank areas. Separate Manning's n values were input for the overbank areas and main channel to define the noted roughness characteristics of the stream and floodplain. The dimensions of the channel, as well as the roughness numbers, were derived from the measurements taken during the survey of significant obstructions. Channel lengths and elevation changes (both measured from USGS quad maps) between the beginning and end of the channel reaches were used to compute channel slopes. The HEC-HMS program then uses the 8-point section, roughness values, reach lengths, and channel slopes to compute the water elevations within the channel according to discharge. The reach routing calculations also account for channel and overbank storage, effectively modeling the attenuation of the flood wave due to floodplain storage.

2. MODEL CALIBRATION

Calibration of the hydrologic model involves comparison of the model output to measured streamflows. Three stream gages exist within the Cumberland County study area.

- USGS Gage No. 01570000, Conodoguinet Creek near Hogestown
- USGS Gage No. 01571500, Yellow Breeches Creek near Camp Hill
- USGS Gage No. 01569800, LeTort Spring Run near Carlisle

The annual maximum peak discharge data for each gage was downloaded and evaluated to determine the annual probabilities for each gage. The model was calibrated by pairing the probability of rainfall events with the probability of annual maximum peak flows (i.e. - the 2-year rainfall event was assumed to produce the 2-year peak discharge at the gage, the 5-year rainfall event was assumed to produce the 5-year peak discharge at the gage, etc.).

All model parameters (subwatershed areas, curve numbers, lag times, reach routing factors, precipitation data, etc.) were entered into the model, and a "first-run" was conducted. For select event probabilities (namely the 2-, 10-, 50-, and 100-year events), the computed discharge values for all subwatersheds and junctions were plotted against drainage area. These relations were then compared to the data from the USGS stream gages. However, these gages provide only two comparative points in the Conodoguinet Creek watershed and one point in the Yellow Breeches watershed. To supplement the gage data, USGS

regression equations were used. The StreamStats website (<http://water.usgs.gov/osw/streamstats/pennsylvania.html>) was utilized to determine these supplemental flood flow estimates from the equations published in U.S. Geological Survey Scientific Investigations Report (SIR) 2008-5102.

Several options for calibrating the model were considered.

- Adjustment of subwatershed lag times by a factor.
- Adjustment of subwatershed curve numbers by a constant.
- Adjustment of rainfall estimates.

It was decided that the rainfall depth estimates would not be adjusted. Therefore, the rainfall events were accepted as is.

The basin lag times were adjusted by a multiplication factor and the runoff curve numbers were adjusted by a constant until the model of the existing conditions approximated the gage data and regression predictions. A summary of the calibration modifications are included in the table below.

WATERSHED	LAG TIME FACTOR	CONSTANT ADDED TO CURVE NUMBERS
Conodoguinet Creek	2.0	-7
Yellow Breeches Creek	3.0	-10

As part of the Stormwater Management Plan preparation, the Qualified Professional shall not utilize the lag time adjustments and curve number changes tabulated above. The tabulated adjustments have been found to be appropriate for the macro-scale study of the Conodoguinet Creek and Yellow Breeches Creek watersheds. Stormwater Management Plans shall be prepared using the calculations prescribed within the ordinance with no calibration adjustments.

3. FUTURE CONDITIONS MODEL

Within the future conditions model, the calculated future curve numbers (modified by the same calibration procedure as used in the existing conditions model) were inserted within the model. No changes were made to the rainfall depths or the lag times for each subwatershed. The model was then executed, and comparisons were made between the existing and future models to determine the level of expected increases in peak discharge values within reaches and junctions.

4. FUTURE CONDITIONS MODEL, WITH STORMWATER CONTROLS

VOLUME CONTROL

In accordance with the ordinance, each subwatershed was modeled to remove the calculated amount of volume control. The volume control portion was calculated in accordance with the Design Storm Method (or CG-1 as stated in the PA Stormwater BMP Manual), due to its non-dependence on subwatershed area. CG-2 may only be applied for Regulated Activities that are less than or equal to an acre, whereas CG-1 applies to any size Regulated Activity.

Within the hydrologic model, the volume control is modeled as a diversion element that removes a specified volume of water from the runoff of the contributing subwatershed. The volume of water is calculated based upon the change in runoff of the 2-year rainfall, while considering all existing non-forested pervious areas and 20% of existing impervious areas to be meadow.

RELEASE RATE CONTROLS AND VERIFICATION

It was decided that one singular release rate would be established for the full spectrum of events within each subwatershed. Previous stormwater management plans within the study area and nearby watersheds have focused on establishing varying release rates for the different event probabilities, which has introduced unnecessary complexities into stormwater control design. This study for Cumberland County has focused on establishing appropriately sized and proportioned subwatersheds, along with relatively simple release rate districting.

As a start to the release rate assignment effort, the calibrated model of future conditions (with volume control included) was controlled using release rates of 100 (essentially, the “no increase in peak rate” condition, or “post- to pre-”). As expected, this resulted in increases in the peak discharge rates in portions of both the Conodoguinet Creek and Yellow Breeches Creek. New reduced release rates were prescribed to subwatersheds upstream of those junctions and reaches that experienced increases in their peak discharge values.

The models were then re-run for all rainfall events (2-, 5-, 10-, 25-, 50- and 100-year events). A few peak increases remained after the application of the new release rates. Those junctions and reaches that saw an increase as a result of the release rate application were re-analyzed, and release rates were adjusted in the contributing subwatersheds. The model of the future conditions controlled by the proposed release rates shows that the implementation of this stormwater management plan and associated ordinances will not adversely affect federal, state, and local flood control plans, programs, and facilities. According to the model, there will be no increase in the peak discharge of the 2-, 5-, 10-, 25-, 50- and 100-year events within any of the stream reaches within the study area if the proposed release rates (in conjunction with the prescribed volume controls) are fully enforced.

APPENDIX E - HYDROLOGICAL POINTS OF INTEREST

CONODOGUINET CREEK EXISTING CALIBRATED MODEL RESULTS VERSUS FUTURE CONTROLLED (ADJUSTED)

CURVE NUMBERS REDUCED BY 7

TIMES OF CONCENTRATION CHANGED BY FACTOR OF 2.0

2-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CC-01	192	RS-CC-01	189	-1.93%
CC-02	249	RS-CC-02	246	-1.17%
CC-03	215	RS-CC-03	135	-37.24%
CC-04	150	RS-CC-04	150	-0.47%
CC-05	117	RS-CC-05	114	-2.32%
CC-06	105	RS-CC-06	105	-0.48%
CC-07	53	RS-CC-07	53	-0.19%
CC-08	122	RS-CC-08	120	-1.23%
CC-09	113	RS-CC-09	110	-2.21%
CC-10	59	RS-CC-10	59	-1.02%
CC-11	221	RS-CC-11	215	-2.94%
CC-12	149	RS-CC-12	144	-3.68%
CC-13	119	RS-CC-13	118	-0.34%
CC-14	156	RS-CC-14	155	-0.39%
CC-15	246	RS-CC-15	239	-2.76%
CC-16	245	RS-CC-16	241	-1.71%
CC-17	281	RS-CC-17	274	-2.49%
CC-18	289	RS-CC-18	244	-18.49%
CC-19	238	RS-CC-19	235	-1.34%
CC-20	337	RS-CC-20	324	-3.91%
CC-21	288	RS-CC-21	279	-2.52%
CC-22	152	RS-CC-22	150	-1.18%
CC-23	112	RS-CC-23	96	-14.16%
CC-24	206	RS-CC-24	205	-0.39%
CC-25	130	RS-CC-25	129	-0.85%
CC-26	496	RS-CC-26	486	-1.86%
CC-27	226	RS-CC-27	223	-1.28%
CC-28	220	RS-CC-28	219	-0.45%
CC-29	117	RS-CC-29	111	-4.72%
HR-01	163	RS-HR-01	162	-0.31%
HR-02	67	RS-HR-02	66	-0.60%
HR-03	78	RS-HR-03	78	-0.26%
HR-04	63	RS-HR-04	63	-0.48%
HR-05	115	RS-HR-05	115	-0.35%
LSR-01	118	RS-LSR-01	117	-0.76%
LSR-02	109	RS-LSR-02	108	-0.73%
LSR-03	77	RS-LSR-03	76	-0.39%
LSR-04	186	RS-LSR-04	185	-0.54%
LSR-06	58	RS-LSR-06	58	-0.69%
LSR-07	91	RS-LSR-07	91	-0.22%
LSR-08	215	RS-LSR-08	203	-5.68%
LSR-09	116	RS-LSR-09	110	-5.15%
TSR-01	238	RS-TSR-01	237	-0.46%
TSR-02	136	RS-TSR-02	136	-0.22%
TSR-03	156	RS-TSR-03	154	-0.71%
TSR-04	100	RS-TSR-04	99	-0.90%
Upper CC	4816	RS-UCC	4605	-4.36%
Alex Sp	151	RS-AS	145	-3.92%

5-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CC-01	354	RS-CC-01	348	-1.53%
CC-02	405	RS-CC-02	402	-0.76%
CC-03	451	RS-CC-03	392	-13.03%
CC-04	279	RS-CC-04	278	-0.47%
CC-05	217	RS-CC-05	215	-1.20%
CC-06	191	RS-CC-06	190	-0.42%
CC-07	93	RS-CC-07	92	-0.22%
CC-08	241	RS-CC-08	237	-1.45%
CC-09	225	RS-CC-09	220	-2.09%
CC-10	107	RS-CC-10	105	-1.13%
CC-11	455	RS-CC-11	445	-2.22%
CC-12	317	RS-CC-12	310	-2.27%
CC-13	213	RS-CC-13	212	-0.33%
CC-14	284	RS-CC-14	283	-0.42%
CC-15	489	RS-CC-15	479	-1.96%
CC-16	504	RS-CC-16	497	-1.49%
CC-17	543	RS-CC-17	532	-2.01%
CC-18	492	RS-CC-18	420	-14.60%
CC-19	445	RS-CC-19	440	-1.10%
CC-20	557	RS-CC-20	536	-3.68%
CC-21	504	RS-CC-21	493	-2.01%
CC-22	347	RS-CC-22	342	-1.38%
CC-23	176	RS-CC-23	156	-11.41%
CC-24	355	RS-CC-24	353	-0.37%
CC-25	226	RS-CC-25	225	-0.80%
CC-26	846	RS-CC-26	832	-1.63%
CC-27	483	RS-CC-27	475	-1.59%
CC-28	384	RS-CC-28	380	-1.07%
CC-29	209	RS-CC-29	201	-3.97%
HR-01	294	RS-HR-01	293	-0.37%
HR-02	130	RS-HR-02	129	-0.54%
HR-03	144	RS-HR-03	144	-0.21%
HR-04	119	RS-HR-04	119	-0.50%
HR-05	225	RS-HR-05	224	-0.53%
LSR-01	193	RS-LSR-01	192	-0.67%
LSR-02	205	RS-LSR-02	203	-0.73%
LSR-03	137	RS-LSR-03	136	-0.51%
LSR-04	325	RS-LSR-04	324	-0.49%
LSR-06	118	RS-LSR-06	117	-0.85%
LSR-07	167	RS-LSR-07	167	-0.24%
LSR-08	430	RS-LSR-08	404	-5.96%
LSR-09	224	RS-LSR-09	212	-5.36%
TSR-01	438	RS-TSR-01	435	-0.57%
TSR-02	244	RS-TSR-02	243	-0.29%
TSR-03	282	RS-TSR-03	280	-0.71%
TSR-04	197	RS-TSR-04	195	-1.17%
Upper CC	7887	RS-UCC	7520	-4.66%
Alex Sp	340	RS-AS	324	-4.62%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CC-01	4871	J-CC-01	4668	-4.17%
J-CC-02	4861	J-CC-02	4665	-4.04%
J-CC-03	4855	J-CC-03	4661	-4.01%
J-CC-04	4861	J-CC-04	4663	-4.06%
J-CC-05	4872	J-CC-05	4675	-4.04%
J-CC-06	4940	J-CC-06	4749	-3.87%
J-CC-07	4950	J-CC-07	4758	-3.87%
J-CC-08	4939	J-CC-08	4749	-3.85%
J-CC-09	4944	J-CC-09	4749	-3.95%
J-CC-10	4955	J-CC-10	4757	-3.99%
J-CC-11	4935	J-CC-11	4680	-5.16%
J-CC-12	4976	J-CC-12	4706	-5.41%
J-CC-13	5013	J-CC-13	4686	-6.53%
J-CC-14	5015	J-CC-14	4639	-7.50%
J-CC-15	4885	J-CC-15	4126	-15.20%
J-CC-16	4849	J-CC-16	3613	-25.49%
J-CC-17	4835	J-CC-17	3304	-31.68%
J-HR-01	78	J-HR-01	78	-0.26%
J-HR-02	115	J-HR-02	115	-0.35%
J-HR-03	256	J-HR-03	220	-14.20%
J-LSR-01	278	J-LSR-01	278	-0.61%
J-LSR-02	363	J-LSR-02	342	-5.73%
J-LSR-03	528	J-LSR-03	480	-8.80%
J-LSR-04	632	J-LSR-04	605	-4.27%
J-TSR-01	100	J-TSR-01	99	-0.90%
J-TSR-02	284	J-TSR-02	261	-8.03%
J-SUB1-CC	226	J-SUB1-CC	223	-1.28%
J-SUB2-CC	152	J-SUB2-CC	150	-1.18%
J-SUB3-CC	105	J-SUB3-CC	105	-0.48%
R-CC-01	4815	R-CC-01	4604	-4.38%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CC-01	7962	J-CC-01	7817	-4.33%
J-CC-02	7912	J-CC-02	7587	-4.11%
J-CC-03	7895	J-CC-03	7574	-4.06%
J-CC-04	7892	J-CC-04	7570	-4.08%
J-CC-05	7899	J-CC-05	7578	-4.06%
J-CC-06	7968	J-CC-06	7659	-3.88%
J-CC-07	7977	J-CC-07	7667	-3.88%
J-CC-08	7951	J-CC-08	7647	-3.83%
J-CC-09	7955	J-CC-09	7651	-3.82%
J-CC-10	7965	J-CC-10	7661	-3.82%
J-CC-11	7915	J-CC-11	7611	-3.84%
J-CC-12	7961	J-CC-12	7663	-3.74%
J-CC-13	8002	J-CC-13	7681	-4.00%
J-CC-14	8002	J-CC-14	7658	-4.32%
J-CC-15	7774	J-CC-15	7198	-7.41%
J-CC-16	7740	J-CC-16	6784	-12.35%
J-CC-17	7749	J-CC-17	6548	-15.50%
J-HR-01	144	J-HR-01	144	-0.21%
J-HR-02	225	J-HR-02	224	-0.53%
J-HR-03	485	J-HR-03	413	-14.79%
J-LSR-01	547	J-LSR-01	517	-5.50%
J-LSR-02	711	J-LSR-02	642	-9.67%
J-LSR-03	989	J-LSR-03	891	-9.89%
J-LSR-04	1180	J-LSR-04	1138	-3.58%
J-TSR-01	197	J-TSR-01	195	-1.17%
J-TSR-02	515	J-TSR-02	460	-10.61%
J-SUB1-CC	483	J-SUB1-CC	475	-1.59%
J-SUB2-CC	347	J-SUB2-CC	342	-1.38%
J-SUB3-CC	191	J-SUB3-CC	190	-0.42%
R-CC-01	7884	R-CC-01	7518	-4.65%

CONODOGUINET CREEK EXISTING CALIBRATED MODEL RESULTS VERSUS FUTURE CONTROLLED (ADJUSTED)

CURVE NUMBERS REDUCED BY 7

TIMES OF CONCENTRATION CHANGED BY FACTOR OF 2.0

10-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CC-01	520	RS-CC-01	508	-2.21%
CC-02	557	RS-CC-02	554	-0.66%
CC-03	712	RS-CC-03	676	-5.04%
CC-04	415	RS-CC-04	410	-1.11%
CC-05	322	RS-CC-05	319	-1.09%
CC-06	281	RS-CC-06	276	-1.85%
CC-07	133	RS-CC-07	131	-1.65%
CC-08	369	RS-CC-08	355	-3.82%
CC-09	345	RS-CC-09	333	-3.71%
CC-10	155	RS-CC-10	152	-2.51%
CC-11	708	RS-CC-11	688	-2.82%
CC-12	503	RS-CC-12	491	-2.27%
CC-13	311	RS-CC-13	306	-1.74%
CC-14	419	RS-CC-14	409	-2.41%
CC-15	748	RS-CC-15	730	-2.43%
CC-16	789	RS-CC-16	769	-2.60%
CC-17	818	RS-CC-17	793	-3.05%
CC-18	677	RS-CC-18	594	-12.26%
CC-19	862	RS-CC-19	849	-1.98%
CC-20	770	RS-CC-20	743	-3.56%
CC-21	720	RS-CC-21	703	-2.36%
CC-22	573	RS-CC-22	552	-3.68%
CC-23	238	RS-CC-23	215	-9.80%
CC-24	506	RS-CC-24	499	-1.42%
CC-25	324	RS-CC-25	318	-1.85%
CC-26	1191	RS-CC-26	1162	-2.40%
CC-27	768	RS-CC-27	755	-1.70%
CC-28	550	RS-CC-28	542	-1.42%
CC-29	302	RS-CC-29	291	-3.61%
HR-01	432	RS-HR-01	421	-2.50%
HR-02	198	RS-HR-02	196	-1.41%
HR-03	215	RS-HR-03	209	-2.66%
HR-04	180	RS-HR-04	175	-2.56%
HR-05	345	RS-HR-05	332	-3.66%
LSR-01	267	RS-LSR-01	262	-1.58%
LSR-02	306	RS-LSR-02	297	-2.84%
LSR-03	199	RS-LSR-03	194	-2.41%
LSR-04	467	RS-LSR-04	459	-1.84%
LSR-06	185	RS-LSR-06	179	-2.98%
LSR-07	249	RS-LSR-07	242	-2.57%
LSR-08	663	RS-LSR-08	607	-8.49%
LSR-09	340	RS-LSR-09	315	-7.15%
TSR-01	647	RS-TSR-01	630	-2.69%
TSR-02	357	RS-TSR-02	348	-2.52%
TSR-03	412	RS-TSR-03	407	-1.36%
TSR-04	302	RS-TSR-04	291	-3.74%
Upper CC	10999	RS-UCC	10467	-4.84%
Alex Sp	575	RS-AS	538	-6.54%

25-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CC-01	812	RS-CC-01	799	-1.59%
CC-02	813	RS-CC-02	806	-0.93%
CC-03	1194	RS-CC-03	1170	-1.95%
CC-04	658	RS-CC-04	646	-1.78%
CC-05	509	RS-CC-05	495	-2.69%
CC-06	443	RS-CC-06	441	-0.47%
CC-07	206	RS-CC-07	205	-0.53%
CC-08	601	RS-CC-08	569	-5.18%
CC-09	560	RS-CC-09	537	-4.16%
CC-10	241	RS-CC-10	231	-4.19%
CC-11	1169	RS-CC-11	1145	-2.07%
CC-12	843	RS-CC-12	822	-2.53%
CC-13	488	RS-CC-13	486	-0.45%
CC-14	662	RS-CC-14	651	-1.63%
CC-15	1215	RS-CC-15	1191	-1.91%
CC-16	1313	RS-CC-16	1279	-2.59%
CC-17	1305	RS-CC-17	1259	-3.52%
CC-18	989	RS-CC-18	891	-9.91%
CC-19	1049	RS-CC-19	1034	-1.48%
CC-20	1129	RS-CC-20	1091	-3.36%
CC-21	1093	RS-CC-21	1071	-1.99%
CC-22	1008	RS-CC-22	967	-4.02%
CC-23	341	RS-CC-23	314	-7.93%
CC-24	773	RS-CC-24	769	-0.53%
CC-25	492	RS-CC-25	477	-3.15%
CC-26	1775	RS-CC-26	1743	-1.85%
CC-27	1294	RS-CC-27	1271	-1.79%
CC-28	836	RS-CC-28	822	-1.66%
CC-29	462	RS-CC-29	448	-3.01%
HR-01	681	RS-HR-01	645	-5.33%
HR-02	324	RS-HR-02	322	-0.65%
HR-03	345	RS-HR-03	344	-0.29%
HR-04	291	RS-HR-04	289	-0.62%
HR-05	566	RS-HR-05	540	-4.70%
LSR-01	392	RS-LSR-01	382	-2.53%
LSR-02	489	RS-LSR-02	484	-1.00%
LSR-03	310	RS-LSR-03	302	-2.80%
LSR-04	719	RS-LSR-04	710	-1.29%
LSR-06	309	RS-LSR-06	301	-2.62%
LSR-07	397	RS-LSR-07	396	-0.30%
LSR-08	1089	RS-LSR-08	961	-11.78%
LSR-09	553	RS-LSR-09	501	-9.38%
TSR-01	1024	RS-TSR-01	1009	-1.43%
TSR-02	560	RS-TSR-02	557	-0.52%
TSR-03	641	RS-TSR-03	629	-2.01%
TSR-04	492	RS-TSR-04	480	-2.44%
Upper CC	16460	RS-UCC	15652	-4.90%
Alex Sp	1055	RS-AS	1001	-5.10%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CC-01	11093	J-CC-01	10602	-4.43%
J-CC-02	11012	J-CC-02	10547	-4.23%
J-CC-03	10981	J-CC-03	10522	-4.18%
J-CC-04	10972	J-CC-04	10508	-4.23%
J-CC-05	10974	J-CC-05	10512	-4.22%
J-CC-06	11049	J-CC-06	10601	-4.06%
J-CC-07	11057	J-CC-07	10609	-4.05%
J-CC-08	11015	J-CC-08	10571	-4.03%
J-CC-09	11017	J-CC-09	10573	-4.03%
J-CC-10	11028	J-CC-10	10584	-4.02%
J-CC-11	10948	J-CC-11	10509	-4.01%
J-CC-12	10999	J-CC-12	10578	-3.83%
J-CC-13	11045	J-CC-13	10629	-3.77%
J-CC-14	11043	J-CC-14	10619	-3.84%
J-CC-15	10734	J-CC-15	10159	-5.36%
J-CC-16	10680	J-CC-16	9780	-8.42%
J-CC-17	10688	J-CC-17	9573	-10.43%
J-HR-01	215	J-HR-01	209	-2.66%
J-HR-02	345	J-HR-02	332	-3.66%
J-HR-03	732	J-HR-03	810	-16.71%
J-LSR-01	838	J-LSR-01	772	-7.87%
J-LSR-02	1085	J-LSR-02	959	-11.65%
J-LSR-03	1462	J-LSR-03	1292	-11.61%
J-LSR-04	1746	J-LSR-04	1673	-4.19%
J-TSR-01	302	J-TSR-01	291	-3.74%
J-TSR-02	758	J-TSR-02	667	-11.99%
J-SUB1-CC	768	J-SUB1-CC	755	-1.70%
J-SUB2-CC	573	J-SUB2-CC	552	-3.68%
J-SUB3-CC	281	J-SUB3-CC	276	-1.85%
R-CC-01	10992	R-CC-01	10463	-4.81%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CC-01	16587	J-CC-01	15845	-4.47%
J-CC-02	16452	J-CC-02	15759	-4.21%
J-CC-03	16403	J-CC-03	15723	-4.15%
J-CC-04	16388	J-CC-04	15701	-4.18%
J-CC-05	16381	J-CC-05	15700	-4.16%
J-CC-06	16467	J-CC-06	15807	-4.01%
J-CC-07	16472	J-CC-07	15813	-4.00%
J-CC-08	16406	J-CC-08	15756	-3.96%
J-CC-09	16404	J-CC-09	15755	-3.96%
J-CC-10	16416	J-CC-10	15767	-3.95%
J-CC-11	16292	J-CC-11	15653	-3.92%
J-CC-12	16357	J-CC-12	15744	-3.75%
J-CC-13	16412	J-CC-13	15807	-3.68%
J-CC-14	16407	J-CC-14	15803	-3.68%
J-CC-15	16003	J-CC-15	15353	-4.06%
J-CC-16	15917	J-CC-16	15108	-5.08%
J-CC-17	15924	J-CC-17	14967	-6.01%
J-HR-01	345	J-HR-01	344	-0.29%
J-HR-02	588	J-HR-02	540	-4.70%
J-HR-03	1183	J-HR-03	984	-16.85%
J-LSR-01	1370	J-LSR-01	1221	-10.88%
J-LSR-02	1772	J-LSR-02	1528	-13.74%
J-LSR-03	2319	J-LSR-03	2031	-12.42%
J-LSR-04	2773	J-LSR-04	2613	-5.77%
J-TSR-01	492	J-TSR-01	480	-2.44%
J-TSR-02	1199	J-TSR-02	1054	-12.10%
J-SUB1-CC	1294	J-SUB1-CC	1271	-1.79%
J-SUB2-CC	1008	J-SUB2-CC	967	-4.02%
J-SUB3-CC	443	J-SUB3-CC	441	-0.47%
R-CC-01	16442	R-CC-01	15647	-4.84%

CONODOGUINET CREEK EXISTING CALIBRATED MODEL RESULTS VERSUS FUTURE CONTROLLED (ADJUSTED)

CURVE NUMBERS REDUCED BY 7

TIMES OF CONCENTRATION CHANGED BY FACTOR OF 2.0

50-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CC-01	1100	RS-CC-01	1078	-2.04%
CC-02	1060	RS-CC-02	1047	-1.23%
CC-03	1686	RS-CC-03	1650	-2.12%
CC-04	902	RS-CC-04	898	-0.42%
CC-05	696	RS-CC-05	663	-4.76%
CC-06	607	RS-CC-06	599	-1.33%
CC-07	280	RS-CC-07	279	-0.29%
CC-08	834	RS-CC-08	820	-1.66%
CC-09	776	RS-CC-09	757	-2.40%
CC-10	325	RS-CC-10	319	-1.84%
CC-11	1635	RS-CC-11	1597	-2.30%
CC-12	1193	RS-CC-12	1160	-2.77%
CC-13	668	RS-CC-13	661	-0.94%
CC-14	909	RS-CC-14	904	-0.60%
CC-15	1684	RS-CC-15	1647	-2.18%
CC-16	1850	RS-CC-16	1822	-1.49%
CC-17	1792	RS-CC-17	1756	-1.98%
CC-18	1288	RS-CC-18	1179	-8.46%
CC-19	1437	RS-CC-19	1420	-1.16%
CC-20	1474	RS-CC-20	1426	-3.24%
CC-21	1455	RS-CC-21	1427	-1.95%
CC-22	1467	RS-CC-22	1443	-1.64%
CC-23	438	RS-CC-23	409	-6.80%
CC-24	1039	RS-CC-24	1034	-0.46%
CC-25	658	RS-CC-25	653	-0.85%
CC-26	2343	RS-CC-26	2308	-1.51%
CC-27	1833	RS-CC-27	1801	-1.75%
CC-28	1117	RS-CC-28	1097	-1.80%
CC-29	619	RS-CC-29	602	-2.76%
HR-01	933	RS-HR-01	926	-0.78%
HR-02	452	RS-HR-02	448	-0.84%
HR-03	479	RS-HR-03	474	-1.00%
HR-04	404	RS-HR-04	402	-0.57%
HR-05	796	RS-HR-05	786	-0.99%
LSR-01	513	RS-LSR-01	510	-0.62%
LSR-02	674	RS-LSR-02	665	-1.22%
LSR-03	422	RS-LSR-03	419	-0.55%
LSR-04	969	RS-LSR-04	964	-0.58%
LSR-06	438	RS-LSR-06	433	-1.10%
LSR-07	550	RS-LSR-07	541	-1.62%
LSR-08	1522	RS-LSR-08	1413	-7.14%
LSR-09	771	RS-LSR-09	723	-6.20%
TSR-01	1405	RS-TSR-01	1396	-0.62%
TSR-02	768	RS-TSR-02	764	-0.44%
TSR-03	868	RS-TSR-03	861	-0.82%
TSR-04	685	RS-TSR-04	676	-1.30%
Upper CC	21891	RS-UCC	20754	-5.20%
Alex Sp	1588	RS-AS	1484	-6.57%

100-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CC-01	1457	RS-CC-01	1413	-3.05%
CC-02	1358	RS-CC-02	1337	-1.52%
CC-03	2309	RS-CC-03	2236	-3.19%
CC-04	1207	RS-CC-04	1201	-0.52%
CC-05	928	RS-CC-05	912	-1.68%
CC-06	814	RS-CC-06	794	-2.51%
CC-07	373	RS-CC-07	369	-1.29%
CC-08	1128	RS-CC-08	1109	-1.53%
CC-09	1046	RS-CC-09	1017	-2.71%
CC-10	430	RS-CC-10	425	-1.02%
CC-11	2218	RS-CC-11	2151	-2.99%
CC-12	1632	RS-CC-12	1568	-3.89%
CC-13	894	RS-CC-13	872	-2.45%
CC-14	1221	RS-CC-14	1207	-1.11%
CC-15	2269	RS-CC-15	2198	-3.15%
CC-16	2527	RS-CC-16	2482	-1.79%
CC-17	2395	RS-CC-17	2341	-2.25%
CC-18	1648	RS-CC-18	1530	-7.14%
CC-19	1919	RS-CC-19	1884	-1.82%
CC-20	1892	RS-CC-20	1832	-3.16%
CC-21	1898	RS-CC-21	1848	-2.60%
CC-22	2058	RS-CC-22	2021	-1.72%
CC-23	556	RS-CC-23	524	-5.77%
CC-24	1370	RS-CC-24	1355	-1.08%
CC-25	862	RS-CC-25	855	-0.81%
CC-26	3033	RS-CC-26	2969	-2.10%
CC-27	2513	RS-CC-27	2468	-1.78%
CC-28	1463	RS-CC-28	1435	-1.91%
CC-29	811	RS-CC-29	790	-2.61%
HR-01	1251	RS-HR-01	1244	-0.58%
HR-02	614	RS-HR-02	607	-1.11%
HR-03	850	RS-HR-03	833	-2.62%
HR-04	548	RS-HR-04	541	-1.30%
HR-05	1088	RS-HR-05	1077	-0.96%
LSR-01	660	RS-LSR-01	655	-0.83%
LSR-02	905	RS-LSR-02	883	-2.40%
LSR-03	561	RS-LSR-03	558	-0.78%
LSR-04	1280	RS-LSR-04	1263	-1.32%
LSR-06	602	RS-LSR-06	591	-1.78%
LSR-07	744	RS-LSR-07	717	-3.67%
LSR-08	2067	RS-LSR-08	1936	-6.35%
LSR-09	1048	RS-LSR-09	990	-5.57%
TSR-01	1882	RS-TSR-01	1860	-1.17%
TSR-02	1030	RS-TSR-02	1018	-1.34%
TSR-03	1149	RS-TSR-03	1139	-0.85%
TSR-04	926	RS-TSR-04	910	-1.77%
Upper CC	28657	RS-UCC	27241	-4.94%
Alex Sp	2308	RS-AS	2176	-5.72%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CC-01	22057	J-CC-01	20999	-4.79%
J-CC-02	21866	J-CC-02	20878	-4.61%
J-CC-03	21818	J-CC-03	20826	-4.54%
J-CC-04	21793	J-CC-04	20793	-4.59%
J-CC-05	21779	J-CC-05	20784	-4.57%
J-CC-06	21878	J-CC-06	20905	-4.45%
J-CC-07	21882	J-CC-07	20910	-4.44%
J-CC-08	21792	J-CC-08	20830	-4.41%
J-CC-09	21786	J-CC-09	20825	-4.41%
J-CC-10	21799	J-CC-10	20838	-4.41%
J-CC-11	21630	J-CC-11	20683	-4.38%
J-CC-12	21712	J-CC-12	20796	-4.22%
J-CC-13	21777	J-CC-13	20870	-4.16%
J-CC-14	21770	J-CC-14	20864	-4.16%
J-CC-15	21283	J-CC-15	20337	-4.45%
J-CC-16	21165	J-CC-16	20199	-4.57%
J-CC-17	21172	J-CC-17	20134	-4.90%
J-HR-01	479	J-HR-01	474	-1.00%
J-HR-02	796	J-HR-02	789	-0.99%
J-HR-03	1650	J-HR-03	1426	-13.56%
J-LSR-01	1915	J-LSR-01	1715	-10.44%
J-LSR-02	2478	J-LSR-02	2145	-13.43%
J-LSR-03	3192	J-LSR-03	2803	-12.19%
J-LSR-04	3851	J-LSR-04	3616	-6.12%
J-TSR-01	685	J-TSR-01	676	-1.30%
J-TSR-02	1665	J-TSR-02	1492	-10.39%
J-SUB1-CC	1833	J-SUB1-CC	1801	-1.75%
J-SUB2-CC	1467	J-SUB2-CC	1443	-1.64%
J-SUB3-CC	607	J-SUB3-CC	599	-1.33%
R-CC-01	21866	R-CC-01	20746	-5.12%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CC-01	28872	J-CC-01	27555	-4.56%
J-CC-02	28687	J-CC-02	27406	-4.40%
J-CC-03	28573	J-CC-03	27340	-4.31%
J-CC-04	28546	J-CC-04	27303	-4.36%
J-CC-05	28526	J-CC-05	27289	-4.34%
J-CC-06	28660	J-CC-06	27447	-4.23%
J-CC-07	28663	J-CC-07	27451	-4.23%
J-CC-08	28535	J-CC-08	27338	-4.20%
J-CC-09	28525	J-CC-09	27329	-4.19%
J-CC-10	28541	J-CC-10	27344	-4.19%
J-CC-11	28328	J-CC-11	27141	-4.18%
J-CC-12	28432	J-CC-12	27287	-4.03%
J-CC-13	28515	J-CC-13	27376	-3.99%
J-CC-14	28505	J-CC-14	27367	-3.98%
J-CC-15	27923	J-CC-15	26724	-4.29%
J-CC-16	27764	J-CC-16	26564	-4.32%
J-CC-17	27769	J-CC-17	26569	-4.32%
J-HR-01	650	J-HR-01	633	-2.62%
J-HR-02	1088	J-HR-02	1077	-0.96%
J-HR-03	2248	J-HR-03	1989	-12.41%
J-LSR-01	2606	J-LSR-01	2333	-10.49%
J-LSR-02	3376	J-LSR-02	2914	-13.69%
J-LSR-03	4288	J-LSR-03	3731	-13.00%
J-LSR-04	5212	J-LSR-04	4863	-6.68%
J-TSR-01	926	J-TSR-01	910	-1.77%
J-TSR-02	2239	J-TSR-02	2023	-9.61%
J-SUB1-CC	2513	J-SUB1-CC	2468	-1.78%
J-SUB2-CC	2056	J-SUB2-CC	2021	-1.72%
J-SUB3-CC	814	J-SUB3-CC	794	-2.51%
R-CC-01	28623	R-CC-01	27231	-4.86%

YELLOW BREECHES CREEK EXISTING CALIBRATED MODEL RESULTS VERSUS FUTURE CONTROLLED (ADJUSTED)

CURVE NUMBERS REDUCED BY 10

TIMES OF CONCENTRATION CHANGED BY A FACTOR OF 3.0

2-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CR-01	35	RS-CR-01	35	-0.85%
CR-02	115	RS-CR-02	114	-0.52%
CR-03	119	RS-CR-03	119	0.00%
CR-04	56	RS-CR-04	55	-1.25%
CR-05	72	RS-CR-05	54	-24.86%
CR-06	150	RS-CR-06	114	-24.05%
CR-07	77	RS-CR-07	73	-4.30%
DR-01	79	RS-DR-01	78	-0.76%
DR-02	107	RS-DR-02	80	-25.14%
DR-03	29	RS-DR-03	29	0.00%
OTR-01	27	RS-OTR-01	27	-1.48%
OTR-02	18	RS-OTR-02	18	-2.72%
OTR-03	11	RS-OTR-03	11	-4.76%
OTR-04	48	RS-OTR-04	46	-3.36%
SR-01	77	RS-SR-01	76	-1.56%
SR-02	142	RS-SR-02	109	-23.67%
SR-03	113	RS-SR-03	88	-22.04%
YBC-01	53	RS-YBC-01	53	-1.50%
YBC-02	131	RS-YBC-02	125	-4.37%
YBC-03	94	RS-YBC-03	45	-51.66%
YBC-04	201	RS-YBC-04	200	-0.40%
YBC-05	34	RS-YBC-05	34	-1.19%
YBC-06	13	RS-YBC-06	13	0.00%
YBC-07	51	RS-YBC-07	51	-0.97%
YBC-08	82	RS-YBC-08	84	-22.94%
YBC-09	194	RS-YBC-09	148	-23.54%
YBC-10	164	RS-YBC-10	162	-0.98%
YBC-11	90	RS-YBC-11	70	-22.58%
YBC-12	21	RS-YBC-12	18	-12.38%
YBC-13	72	RS-YBC-13	72	-0.14%
YBC-14	150	RS-YBC-14	150	-0.13%
YBC-15	71	RS-YBC-15	71	0.00%
YBC-16	19	RS-YBC-16	5	-73.96%
YBC-17	85	RS-YBC-17	85	-0.94%
YBC-18	76	RS-YBC-18	72	-5.12%
YBC-19	87	RS-YBC-19	79	-9.98%
YBC-20	95	RS-YBC-20	79	-17.25%
YBC-21	97	RS-YBC-21	97	-0.51%
YBC-22	65	RS-YBC-22	65	-0.92%
YBC-23	30	RS-YBC-23	30	0.00%
YBC-24	35	RS-YBC-24	35	-0.29%
Moun Sp	424	RS-MS	408	-3.77%
Upper YB	402	RS-UYB	387	-3.73%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CR-01	77	J-CR-01	73	-4.30%
J-CR-02	242	J-CR-02	231	-4.55%
J-CR-03	442	J-CR-03	386	-12.59%
J-DR-01	118	J-DR-01	97	-18.43%
J-OTR-01	48	J-OTR-01	46	-3.36%
J-OTR-02	58	J-OTR-02	52	-10.34%
J-OTR-03	76	J-OTR-03	70	-8.40%
J-SR-01	200	J-SR-01	174	-12.88%
J-SUB-YB	51	J-SUB-YB	51	-0.97%
J-YB-01	420	J-YB-01	403	-3.98%
J-YB-02	884	J-YB-02	855	-3.19%
J-YB-03	1009	J-YB-03	962	-4.65%
J-YB-04	1056	J-YB-04	1003	-5.06%
J-YB-05	1083	J-YB-05	1030	-4.85%
J-YB-06	1115	J-YB-06	1060	-4.99%
J-YB-07	1260	J-YB-07	1179	-6.40%
J-YB-08	1347	J-YB-08	1278	-5.11%
J-YB-09	1543	J-YB-09	1456	-5.60%
J-YB-10	1576	J-YB-10	1483	-5.94%
J-YB-11	1668	J-YB-11	1607	-3.68%
J-YB-12	1692	J-YB-12	1633	-3.48%
J-YB-13	1938	J-YB-13	1914	-1.26%
J-YB-14	2006	J-YB-14	1986	-0.96%
J-YB-15	2029	J-YB-15	2011	-0.93%

5-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CR-01	71	RS-CR-01	71	-1.12%
CR-02	199	RS-CR-02	197	-0.90%
CR-03	192	RS-CR-03	192	-0.16%
CR-04	105	RS-CR-04	102	-3.13%
CR-05	137	RS-CR-05	103	-25.13%
CR-06	286	RS-CR-06	216	-24.70%
CR-07	141	RS-CR-07	136	-3.54%
DR-01	173	RS-DR-01	172	-0.17%
DR-02	208	RS-DR-02	155	-25.58%
DR-03	82	RS-DR-03	82	-0.36%
OTR-01	71	RS-OTR-01	70	-1.68%
OTR-02	53	RS-OTR-02	53	-0.94%
OTR-03	34	RS-OTR-03	34	-1.46%
OTR-04	142	RS-OTR-04	135	-5.28%
SR-01	162	RS-SR-01	159	-1.61%
SR-02	256	RS-SR-02	194	-24.10%
SR-03	195	RS-SR-03	150	-23.36%
YBC-01	109	RS-YBC-01	108	-0.64%
YBC-02	181	RS-YBC-02	179	-1.27%
YBC-03	228	RS-YBC-03	211	-7.45%
YBC-04	389	RS-YBC-04	387	-0.64%
YBC-05	64	RS-YBC-05	64	-0.47%
YBC-06	38	RS-YBC-06	38	-0.27%
YBC-07	120	RS-YBC-07	119	-0.42%
YBC-08	216	RS-YBC-08	163	-24.28%
YBC-09	390	RS-YBC-09	295	-24.46%
YBC-10	338	RS-YBC-10	335	-0.71%
YBC-11	176	RS-YBC-11	134	-23.75%
YBC-12	39	RS-YBC-12	35	-9.92%
YBC-13	127	RS-YBC-13	127	-0.71%
YBC-14	274	RS-YBC-14	274	-0.29%
YBC-15	153	RS-YBC-15	151	-1.05%
YBC-16	72	RS-YBC-16	55	-23.85%
YBC-17	172	RS-YBC-17	171	-0.35%
YBC-18	170	RS-YBC-18	169	-0.53%
YBC-19	167	RS-YBC-19	153	-8.03%
YBC-20	180	RS-YBC-20	155	-13.75%
YBC-21	203	RS-YBC-21	203	-0.15%
YBC-22	123	RS-YBC-22	123	-0.08%
YBC-23	67	RS-YBC-23	67	-1.04%
YBC-24	79	RS-YBC-24	78	-0.64%
Moun Sp	891	RS-MS	851	-4.52%
Upper YB	869	RS-UYB	830	-4.50%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CR-01	141	J-CR-01	136	-3.54%
J-CR-02	461	J-CR-02	429	-6.92%
J-CR-03	808	J-CR-03	718	-11.12%
J-DR-01	247	J-DR-01	222	-9.97%
J-OTR-01	142	J-OTR-01	135	-5.28%
J-OTR-02	173	J-OTR-02	168	-2.95%
J-OTR-03	222	J-OTR-03	218	-1.85%
J-SR-01	348	J-SR-01	292	-16.30%
J-SUB-YB	120	J-SUB-YB	119	-0.42%
J-YB-01	901	J-YB-01	863	-4.19%
J-YB-02	1859	J-YB-02	1780	-4.25%
J-YB-03	2064	J-YB-03	1965	-4.79%
J-YB-04	2145	J-YB-04	2033	-5.21%
J-YB-05	2189	J-YB-05	2078	-5.07%
J-YB-06	2249	J-YB-06	2125	-5.51%
J-YB-07	2500	J-YB-07	2342	-6.29%
J-YB-08	2650	J-YB-08	2519	-4.94%
J-YB-09	2986	J-YB-09	2820	-5.57%
J-YB-10	3045	J-YB-10	2878	-5.49%
J-YB-11	3197	J-YB-11	3126	-2.23%
J-YB-12	3234	J-YB-12	3173	-1.87%
J-YB-13	3601	J-YB-13	3589	-0.33%
J-YB-14	3704	J-YB-14	3696	-0.21%
J-YB-15	3740	J-YB-15	3732	-0.21%

YELLOW BREECHES CREEK EXISTING CALIBRATED MODEL RESULTS VERSUS FUTURE CONTROLLED (ADJUSTED)

CURVE NUMBERS REDUCED BY 10

TIMES OF CONCENTRATION CHANGED BY A FACTOR OF 3.0

10-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CR-01	110	RS-CR-01	109	-1.27%
CR-02	285	RS-CR-02	282	-0.95%
CR-03	264	RS-CR-03	261	-1.21%
CR-04	158	RS-CR-04	157	-0.63%
CR-05	206	RS-CR-05	153	-25.84%
CR-06	432	RS-CR-06	319	-26.17%
CR-07	210	RS-CR-07	204	-3.09%
DR-01	280	RS-DR-01	279	-0.21%
DR-02	317	RS-DR-02	235	-25.73%
DR-03	169	RS-DR-03	168	-0.47%
OTR-01	127	RS-OTR-01	125	-1.34%
OTR-02	106	RS-OTR-02	105	-1.22%
OTR-03	78	RS-OTR-03	77	-0.77%
OTR-04	277	RS-OTR-04	256	-7.58%
SR-01	256	RS-SR-01	248	-3.36%
SR-02	374	RS-SR-02	280	-25.24%
SR-03	281	RS-SR-03	215	-23.45%
YBC-01	170	RS-YBC-01	165	-3.12%
YBC-02	227	RS-YBC-02	225	-0.75%
YBC-03	388	RS-YBC-03	378	-2.45%
YBC-04	594	RS-YBC-04	582	-2.02%
YBC-05	97	RS-YBC-05	95	-1.86%
YBC-06	71	RS-YBC-06	70	-0.28%
YBC-07	201	RS-YBC-07	192	-4.43%
YBC-08	383	RS-YBC-08	288	-24.82%
YBC-09	607	RS-YBC-09	450	-25.93%
YBC-10	530	RS-YBC-10	525	-0.92%
YBC-11	270	RS-YBC-11	201	-25.64%
YBC-12	59	RS-YBC-12	54	-8.80%
YBC-13	185	RS-YBC-13	182	-1.73%
YBC-14	407	RS-YBC-14	405	-0.52%
YBC-15	247	RS-YBC-15	242	-1.98%
YBC-16	158	RS-YBC-16	138	-12.94%
YBC-17	267	RS-YBC-17	261	-2.06%
YBC-18	279	RS-YBC-18	275	-1.65%
YBC-19	253	RS-YBC-19	235	-6.96%
YBC-20	270	RS-YBC-20	238	-11.75%
YBC-21	322	RS-YBC-21	321	-0.19%
YBC-22	184	RS-YBC-22	182	-0.71%
YBC-23	112	RS-YBC-23	109	-2.85%
YBC-24	131	RS-YBC-24	128	-2.30%
Moun Sp	1443	RS-MS	1373	-4.90%
Upper YB	1440	RS-UYB	1369	-4.92%

25-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CR-01	180	RS-CR-01	178	-1.22%
CR-02	434	RS-CR-02	430	-0.83%
CR-03	389	RS-CR-03	378	-2.88%
CR-04	253	RS-CR-04	251	-0.75%
CR-05	331	RS-CR-05	246	-25.54%
CR-06	697	RS-CR-06	520	-25.48%
CR-07	335	RS-CR-07	327	-2.62%
DR-01	484	RS-DR-01	481	-0.50%
DR-02	511	RS-DR-02	379	-25.90%
DR-03	367	RS-DR-03	365	-0.52%
OTR-01	240	RS-OTR-01	229	-4.59%
OTR-02	226	RS-OTR-02	220	-2.83%
OTR-03	183	RS-OTR-03	178	-2.84%
OTR-04	573	RS-OTR-04	539	-5.78%
SR-01	431	RS-SR-01	423	-1.74%
SR-02	587	RS-SR-02	437	-25.55%
SR-03	433	RS-SR-03	327	-24.58%
YBC-01	283	RS-YBC-01	269	-5.05%
YBC-02	299	RS-YBC-02	297	-0.60%
YBC-03	699	RS-YBC-03	675	-3.39%
YBC-04	970	RS-YBC-04	931	-4.02%
YBC-05	159	RS-YBC-05	151	-4.84%
YBC-06	140	RS-YBC-06	136	-2.50%
YBC-07	360	RS-YBC-07	326	-9.53%
YBC-08	722	RS-YBC-08	524	-27.38%
YBC-09	1013	RS-YBC-09	759	-25.05%
YBC-10	890	RS-YBC-10	871	-2.18%
YBC-11	446	RS-YBC-11	322	-27.89%
YBC-12	95	RS-YBC-12	88	-7.34%
YBC-13	289	RS-YBC-13	284	-1.59%
YBC-14	646	RS-YBC-14	645	-0.20%
YBC-15	427	RS-YBC-15	408	-4.38%
YBC-16	360	RS-YBC-16	344	-4.42%
YBC-17	444	RS-YBC-17	426	-4.10%
YBC-18	491	RS-YBC-18	477	-2.87%
YBC-19	412	RS-YBC-19	388	-5.78%
YBC-20	434	RS-YBC-20	392	-9.61%
YBC-21	547	RS-YBC-21	546	-0.11%
YBC-22	295	RS-YBC-22	291	-1.42%
YBC-23	202	RS-YBC-23	198	-1.93%
YBC-24	234	RS-YBC-24	231	-1.07%
Moun Sp	2529	RS-MS	2405	-4.92%
Upper YB	2590	RS-UYB	2446	-5.58%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CR-01	210	J-CR-01	204	-3.09%
J-CR-02	698	J-CR-02	637	-8.81%
J-CR-03	1197	J-CR-03	1063	-11.24%
J-DR-01	410	J-DR-01	384	-6.30%
J-OTR-01	277	J-OTR-01	256	-7.58%
J-OTR-02	340	J-OTR-02	330	-3.00%
J-OTR-03	434	J-OTR-03	426	-1.96%
J-SR-01	503	J-SR-01	411	-18.32%
J-SUB-YB	201	J-SUB-YB	192	-4.43%
J-YB-01	1487	J-YB-01	1432	-3.67%
J-YB-02	3031	J-YB-02	2893	-4.56%
J-YB-03	3307	J-YB-03	3147	-4.85%
J-YB-04	3423	J-YB-04	3241	-5.32%
J-YB-05	3483	J-YB-05	3301	-5.23%
J-YB-06	3569	J-YB-06	3365	-5.74%
J-YB-07	3927	J-YB-07	3673	-6.48%
J-YB-08	4141	J-YB-08	3916	-5.45%
J-YB-09	4621	J-YB-09	4339	-6.09%
J-YB-10	4698	J-YB-10	4407	-6.19%
J-YB-11	4895	J-YB-11	4723	-3.51%
J-YB-12	4939	J-YB-12	4775	-3.33%
J-YB-13	5429	J-YB-13	5373	-1.04%
J-YB-14	5588	J-YB-14	5551	-0.66%
J-YB-15	5640	J-YB-15	5609	-0.54%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CR-01	335	J-CR-01	327	-2.62%
J-CR-02	1132	J-CR-02	1029	-9.08%
J-CR-03	1900	J-CR-03	1692	-10.96%
J-DR-01	743	J-DR-01	716	-3.58%
J-OTR-01	573	J-OTR-01	539	-5.78%
J-OTR-02	712	J-OTR-02	699	-1.80%
J-OTR-03	902	J-OTR-03	887	-1.76%
J-SR-01	781	J-SR-01	618	-20.85%
J-SUB-YB	360	J-SUB-YB	326	-9.53%
J-YB-01	2666	J-YB-01	2535	-4.90%
J-YB-02	5370	J-YB-02	5077	-5.44%
J-YB-03	5801	J-YB-03	5474	-5.64%
J-YB-04	5994	J-YB-04	5623	-6.19%
J-YB-05	6085	J-YB-05	5709	-6.19%
J-YB-06	6218	J-YB-06	5817	-6.42%
J-YB-07	6786	J-YB-07	6313	-6.97%
J-YB-08	7144	J-YB-08	6702	-6.20%
J-YB-09	7887	J-YB-09	7345	-6.88%
J-YB-10	8002	J-YB-10	7454	-6.85%
J-YB-11	8313	J-YB-11	7927	-4.64%
J-YB-12	8381	J-YB-12	7995	-4.60%
J-YB-13	9010	J-YB-13	8711	-3.32%
J-YB-14	9226	J-YB-14	8991	-2.55%
J-YB-15	9296	J-YB-15	9077	-2.35%

YELLOW BREECHES CREEK EXISTING CALIBRATED MODEL RESULTS VERSUS FUTURE CONTROLLED (ADJUSTED)

CURVE NUMBERS REDUCED BY 10

TIMES OF CONCENTRATION CHANGED BY A FACTOR OF 3.0

50-Year

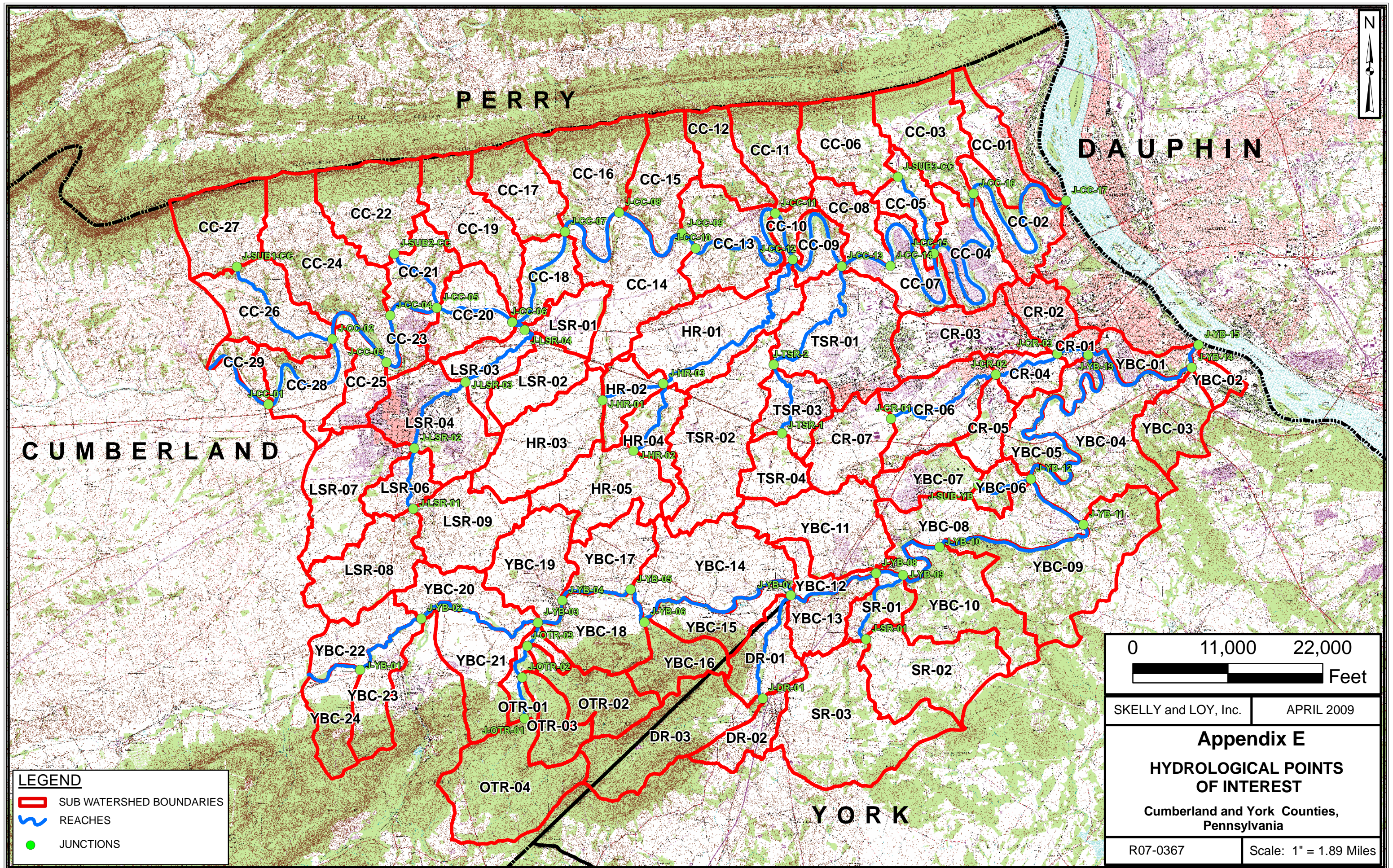
Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CR-01	251	RS-CR-01	248	-1.28%
CR-02	580	RS-CR-02	569	-1.90%
CR-03	511	RS-CR-03	505	-1.16%
CR-04	350	RS-CR-04	342	-2.23%
CR-05	457	RS-CR-05	340	-25.56%
CR-06	968	RS-CR-06	724	-25.17%
CR-07	463	RS-CR-07	453	-2.33%
DR-01	699	RS-DR-01	694	-0.64%
DR-02	707	RS-DR-02	523	-26.06%
DR-03	606	RS-DR-03	602	-0.58%
OTR-01	364	RS-OTR-01	349	-4.12%
OTR-02	369	RS-OTR-02	364	-1.19%
OTR-03	313	RS-OTR-03	300	-4.18%
OTR-04	916	RS-OTR-04	859	-6.20%
SR-01	610	RS-SR-01	598	-2.02%
SR-02	802	RS-SR-02	598	-25.41%
SR-03	588	RS-SR-03	439	-25.28%
YBC-01	401	RS-YBC-01	395	-1.40%
YBC-02	365	RS-YBC-02	363	-0.63%
YBC-03	1028	RS-YBC-03	1004	-2.29%
YBC-04	1359	RS-YBC-04	1345	-0.98%
YBC-05	224	RS-YBC-05	223	-0.49%
YBC-06	218	RS-YBC-06	215	-1.42%
YBC-07	532	RS-YBC-07	518	-2.97%
YBC-08	1098	RS-YBC-08	768	-30.01%
YBC-09	1438	RS-YBC-09	1071	-25.38%
YBC-10	1263	RS-YBC-10	1210	-4.22%
YBC-11	630	RS-YBC-11	466	-26.01%
YBC-12	133	RS-YBC-12	124	-6.55%
YBC-13	393	RS-YBC-13	391	-0.31%
YBC-14	891	RS-YBC-14	888	-0.33%
YBC-15	616	RS-YBC-15	604	-1.88%
YBC-16	600	RS-YBC-16	585	-2.42%
YBC-17	628	RS-YBC-17	624	-0.73%
YBC-18	718	RS-YBC-18	709	-1.28%
YBC-19	576	RS-YBC-19	547	-5.08%
YBC-20	600	RS-YBC-20	551	-8.23%
YBC-21	783	RS-YBC-21	782	-0.15%
YBC-22	410	RS-YBC-22	407	-0.63%
YBC-23	299	RS-YBC-23	298	-0.53%
YBC-24	346	RS-YBC-24	337	-2.43%
Moun Sp	3711	RS-MS	3517	-5.22%
Upper YB	3862	RS-UYB	3648	-5.55%

100-Year

Subbasin Existing Calibrated	Existing Calibrated Discharge Peak (cfs)	Reservoir Future Controlled	Future Controlled Discharge Peak (cfs)	Percent Change
CR-01	339	RS-CR-01	335	-1.24%
CR-02	781	RS-CR-02	736	-3.21%
CR-03	661	RS-CR-03	656	-0.67%
CR-04	471	RS-CR-04	451	-4.31%
CR-05	815	RS-CR-05	457	-25.57%
CR-06	1308	RS-CR-06	976	-25.44%
CR-07	626	RS-CR-07	613	-2.14%
DR-01	974	RS-DR-01	970	-0.47%
DR-02	951	RS-DR-02	702	-26.16%
DR-03	942	RS-DR-03	936	-0.66%
OTR-01	528	RS-OTR-01	519	-1.69%
OTR-02	568	RS-OTR-02	560	-1.50%
OTR-03	499	RS-OTR-03	489	-2.08%
OTR-04	1391	RS-OTR-04	1294	-7.00%
SR-01	836	RS-SR-01	811	-2.90%
SR-02	1073	RS-SR-02	797	-25.73%
SR-03	783	RS-SR-03	583	-25.55%
YBC-01	549	RS-YBC-01	542	-1.37%
YBC-02	443	RS-YBC-02	440	-0.66%
YBC-03	1455	RS-YBC-03	1411	-3.00%
YBC-04	1852	RS-YBC-04	1841	-0.59%
YBC-05	308	RS-YBC-05	307	-0.26%
YBC-06	325	RS-YBC-06	315	-3.14%
YBC-07	757	RS-YBC-07	747	-1.24%
YBC-08	1597	RS-YBC-08	1164	-27.10%
YBC-09	1978	RS-YBC-09	1460	-26.17%
YBC-10	1739	RS-YBC-10	1716	-1.34%
YBC-11	867	RS-YBC-11	649	-25.20%
YBC-12	181	RS-YBC-12	170	-5.86%
YBC-13	522	RS-YBC-13	520	-0.46%
YBC-14	1200	RS-YBC-14	1194	-0.45%
YBC-15	859	RS-YBC-15	850	-0.99%
YBC-16	937	RS-YBC-16	906	-3.28%
YBC-17	863	RS-YBC-17	858	-0.63%
YBC-18	1014	RS-YBC-18	1009	-0.56%
YBC-19	786	RS-YBC-19	751	-4.51%
YBC-20	810	RS-YBC-20	753	-7.01%
YBC-21	1087	RS-YBC-21	1085	-0.16%
YBC-22	555	RS-YBC-22	550	-0.92%
YBC-23	429	RS-YBC-23	425	-0.91%
YBC-24	494	RS-YBC-24	473	-4.29%
Moun Sp	5277	RS-MS	4988	-5.47%
Upper YB	5570	RS-UYB	5261	-5.55%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CR-01	463	J-CR-01	453	-2.33%
J-CR-02	1578	J-CR-02	1428	-9.47%
J-CR-03	2613	J-CR-03	2329	-10.88%
J-DR-01	1113	J-DR-01	1088	-2.32%
J-OTR-01	916	J-OTR-01	859	-6.20%
J-OTR-02	1145	J-OTR-02	1113	-2.73%
J-OTR-03	1467	J-OTR-03	1439	-1.90%
J-SR-01	1062	J-SR-01	828	-22.05%
J-SUB-YB	532	J-SUB-YB	516	-2.97%
J-YB-01	3969	J-YB-01	3764	-5.16%
J-YB-02	7930	J-YB-02	7487	-5.58%
J-YB-03	8530	J-YB-03	8023	-5.94%
J-YB-04	8809	J-YB-04	8231	-6.56%
J-YB-05	8934	J-YB-05	8346	-6.59%
J-YB-06	9113	J-YB-06	8512	-6.60%
J-YB-07	9918	J-YB-07	9195	-7.29%
J-YB-08	10454	J-YB-08	9745	-6.78%
J-YB-09	11489	J-YB-09	10615	-7.45%
J-YB-10	11624	J-YB-10	10784	-7.23%
J-YB-11	12070	J-YB-11	11433	-5.28%
J-YB-12	12168	J-YB-12	11534	-5.21%
J-YB-13	13084	J-YB-13	12484	-4.59%
J-YB-14	13383	J-YB-14	12737	-4.83%
J-YB-15	13468	J-YB-15	12816	-4.84%

Junction Existing Calibrated	Discharge Peak (cfs)	Junction Future Controlled	Discharge Peak (cfs)	Percent Change
J-CR-01	626	J-CR-01	613	-2.14%
J-CR-02	2157	J-CR-02	1927	-10.69%
J-CR-03	3528	J-CR-03	3119	-11.61%
J-DR-01	1614	J-DR-01	1590	-1.51%
J-OTR-01	1391	J-OTR-01	1294	-7.00%
J-OTR-02	1747	J-OTR-02	1676	-4.06%
J-OTR-03	2245	J-OTR-03	2181	-2.86%
J-SR-01	1415	J-SR-01	1084	-23.41%
J-SUB-YB	757	J-SUB-YB	747	-1.24%
J-YB-01	5714	J-YB-01	5417	-5.20%
J-YB-02	11337	J-YB-02	10692	-5.69%
J-YB-03	12155	J-YB-03	11407	-6.15%
J-YB-04	12543	J-YB-04	11693	-6.77%
J-YB-05	12712	J-YB-05	11846	-6.81%
J-YB-06	12953	J-YB-06	12074	-6.78%
J-YB-07	14087	J-YB-07	12996	-7.61%
J-YB-08	14846	J-YB-08	13772	-7.23%
J-YB-09	16213	J-YB-09	14916	-7.99%
J-YB-10	16422	J-YB-10	15142	-7.79%
J-YB-11	17046	J-YB-11	16032	-5.95%
J-YB-12	17178	J-YB-12	16175	-5.84%
J-YB-13	18492	J-YB-13	17512	-5.30%
J-YB-14	18937	J-YB-14	17873	-5.62%
J-YB-15	19048	J-YB-15	17976	-5.63%



LEGEND

- SUB WATERSHED BOUNDARIES
- REACHES
- JUNCTIONS

0 11,000 22,000
Feet

SKELLY and LOY, Inc. APRIL 2009

Appendix E
HYDROLOGICAL POINTS OF INTEREST
Cumberland and York Counties, Pennsylvania

R07-0367 Scale: 1" = 1.89 Miles