

Attachment 3.6

**Existing Drainage Assets to be
Replaced/Rehabilitated**

**ATTACHMENT 3.6
EXISTING DRAINAGE ASSETS TO BE REPLACED/REHABILITATED**

{Column B}	{Column C}	{Column D}	{Column E}	{Column F}	{Column G}	{Column H}	{Column I}	{Column J}	{Column K}	{Column L}	{Column M}	{Column N}	{Column O}	{Column P}	{Column Q}
Upstream Structure [Per 2019-06-17 Survey]	Upstream Description [Per 2019-06-17 Survey]	Downstream Structure [Per 2019-06-17 Survey]	Downstream Description [Per 2019-06-17 Survey]	Pipe Length (ft)	Pipe Size (in)	Pipe Material	Pipe Inspection - Defect Grade Rating (Worst) [Per 2020-01-20 CCTV Inspection Reports]	Assessment of Pipes with Defect Grade Rating (Worst) of 4, 5, or N/A [Per 2020-01-20 CCTV Inspection Reports]							
								Pipe Rehabilitation required by the Design-Builder (See Note 2)? ->	No, unless adversely affected by Project NEXT as defined in the TR's	Yes				No, unless adversely affected by Project NEXT as defined in the TR's	No, unless the Design-Builder decides to utilize the pipes.
								Pipe Description ->	Existing Pipe is located Upstream of the Project and independent of the Proposed Pipe or Inlet Downstream	Existing Pipe is in the Upstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream	Existing Pipe Connects Directly to the upstream end of a Proposed Pipe or inlet	Existing Pipe Connects Directly to the downstream end of a Proposed Pipe or inlet	Existing Pipe is in the Downstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream	Existing Pipe is located Downstream of the Project and independent of Proposed Pipe or Inlet Upstream	Existing Pipe is Preliminarily Proposed to be Abandoned or Removed per the RFP Conceptual Plans
403	Inlet	402	Inlet	12	18	Concrete	3						1		
402	Inlet	401	Inlet	25	18	Concrete	1								
401	Inlet	400	Manhole	115	24	Concrete	1								
400	Manhole	399	Endwall	17	24	Concrete	1								
564	Inlet	561	Inlet	36	27	Concrete	4					X			
561	Inlet	558	Manhole	54	36	Concrete	4						X		
558	Manhole	557	Endwall	30	36	Concrete	N/A						X		
530	Endwall	531	Manhole	59	24	Concrete	3								
531	Manhole	532	Manhole	285	36	Concrete	1								
532	Manhole	533	Endwall	22	39	Plastic	N/A						X		
344	Inlet	430	Manhole	64	18	Plastic	1								
430	Manhole	423	Inlet	87	18	Concrete	3								
423	Inlet	421	Manhole	30	24	Plastic	1								
421	Manhole	410	Inlet	29	24	Plastic	1								
410	Inlet	409	Manhole	39	30	Concrete	1								
409	Manhole	536	Inlet	33	36	Concrete	1								
536	Inlet	535	Inlet	66	36	Concrete	5				X	X			
640	Inlet	345	Inlet	45	18	Concrete	3								
345	Inlet	346	Manhole	230	18	Plastic	1								
346	Manhole	347	Inlet	36	18	Plastic	1								
347	Inlet	638	Manhole	48	18	Concrete	N/A							X	
638	Manhole	637	Endwall	32	18	Concrete	N/A							X	

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Upstream Structure	Upstream Description [Per 2019-06-17 Survey]	Downstream Structure [Per 2019-06-17 Survey]	Downstream Description [Per 2019-06-17 Survey]	Pipe Length (ft)	Pipe Size (in)	Pipe Material	Pipe Inspection - Defect Grade Rating (Worst) [Per 2020-01-20 CCTV Inspection Reports]	Assessment of Pipes with Defect Grade Rating (Worst) of 4, 5, or N/A [Per 2020-01-20 CCTV Inspection Reports]									
								Pipe Rehabilitation required by the Design-Builder (See Note 2)? ->	No, unless adversely affected by Project NEXT as defined in the TR's	Yes				No, unless adversely affected by Project NEXT as defined in the TR's	No, unless the Design-Builder decides to utilize the pipes.		
								Pipe Description ->	Existing Pipe is located Upstream of the Project and independent of the Proposed Pipe or Inlet Downstream	Existing Pipe is in the Upstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream	Existing Pipe Connects Directly to the upstream end of a Proposed Pipe or inlet	Existing Pipe Connects Directly to the downstream end of a Proposed Pipe or inlet	Existing Pipe is in the Downstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream	Existing Pipe is located Downstream of the Project and independent of Proposed Pipe or Inlet Upstream	Existing Pipe is Preliminarily Proposed to be Abandoned or Removed per the RFP Conceptual Plans		
348	Inlet	349	Inlet	81	18	Concrete	1										
349	Inlet	350	Endwall	95	18	Concrete	1										
358	Unspecified	357	Endwall	64	15	Concrete	5										
352	Endwall	351	Endwall	382	Double 8' x 8' Box	Concrete	1										
355	Inlet	354	Inlet	84	24	Concrete	3										
354	Inlet	353	End Section	125	24	Concrete	2										
359	Endwall	588	Endwall	242	Double 7' x 10' Box	Concrete	2										
360	Endwall	Downstream Double 7' x 10' Box	Connection to Double 7' x 10' Box	77	18	Metal / Concrete	1										
500	Inlet	501	Endwall	27	18	Concrete	2										
320	Manhole	321	Endwall	62	24	Concrete	N/A										
302	Inlet	303	Manhole	36	18	Concrete	1										
299	Endwall	298	Endwall	1017	Triple 10'x10' Box	Concrete	3 (See Note A)										
Note A: Culvert not included with the PipeVision Inspection Report because "No Access behind sound wall", however State Culvert #2108 was inspected in October 2018. The culvert received a rating of "6" on a 9 point VDOT structures rating system. This is the equivalent of a "3-Fair" rating from the PipeVision inspection report and is noted as such for this spreadsheet.																	
289	Endwall	290	Manhole	214	42	Metal / Concrete / Plastic	1										
290	Manhole	311	Endwall	154	36	Plastic	1										
292	Inlet	291	Inlet	5	18	Concrete	3										
291	Inlet	290	Manhole	100	18	Concrete	1										
279	Inlet	280	Inlet	19	18	Concrete	3										
280	Inlet	281	Inlet	13	18	Concrete	1										

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Upstream Structure [Per 2019-06-17 Survey]	Upstream Description [Per 2019-06-17 Survey]	Downstream Structure [Per 2019-06-17 Survey]	Downstream Description [Per 2019-06-17 Survey]	Pipe Length (ft)	Pipe Size (in)	Pipe Material	Pipe Inspection - Defect Grade Rating (Worst) [Per 2020-01-20 CCTV Inspection Reports]	Assessment of Pipes with Defect Grade Rating (Worst) of 4, 5, or N/A [Per 2020-01-20 CCTV Inspection Reports]															
								Pipe Rehabilitation required by the Design-Builder (See Note 2)? ->	No, unless adversely affected by Project NEXT as defined in the TR's	Yes				No, unless adversely affected by Project NEXT as defined in the TR's	No, unless the Design-Builder decides to utilize the pipes.								
										Pipe Description ->	Existing Pipe is located Upstream of the Project and independent of the Proposed Pipe or Inlet Downstream	Existing Pipe is in the Upstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream	Existing Pipe Connects Directly to the upstream end of a Proposed Pipe or inlet			Existing Pipe Connects Directly to the downstream end of a Proposed Pipe or inlet	Existing Pipe is in the Downstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream	Existing Pipe is located Downstream of the Project and independent of Proposed Pipe or Inlet Upstream	Existing Pipe is Preliminarily Proposed to be Abandoned or Removed per the RFP Conceptual Plans				
288	Endwall	276	Manhole	57	42	Plastic / Concrete	5																
276	Manhole	281	Manhole	150	30	Plastic	1																
281	Manhole	287	Endwall	128	36	Plastic	1																
309	Inlet	310	Inlet	68	18	Concrete	1																
310	Inlet	274	Inlet	108	18	Concrete	3																
274	Inlet	273	Inlet	23	18	Concrete	1																
273	Inlet	272	Endwall	133	18	Concrete	3																
269	Inlet	268	Inlet	18	17	Concrete	1																
268	Inlet	267	Endwall	18	125	Metal / Concrete	N/A													X			
264	Inlet	263	Inlet	13	15	Concrete	1																
263	Inlet	262	Inlet	378	15	Concrete	4																
259	Endwall	258	Endwall	258	Double 7' x 6' Box	Concrete	3 (See Note B)																
Note B: Culvert not included with the PipeVision Inspection Report because "No Access behind sound wall", however State Culvert #2109 was inspected by Volkert in June 2015. The culvert received a rating of "6" on a 9 point VDOT structures rating system. This is the equivalent of a "3-Fair" rating from the PipeVision inspection report and is noted as such for this spreadsheet.																							
246	Endwall	249	Endwall		Single 7' x 6' Box	Concrete	3																
232	Inlet	231	Inlet	78	18	Metal	1																
231	Inlet	230	Endwall	22	24	Concrete	1																
221	Endwall	220	Inlet	145	60	Metal	1																
220	Inlet	219	Endwall	159	60																		
209	Inlet	210	Inlet	3	15	Metal	N/A																
210	Inlet	211	Inlet	376	15	Concrete	N/A																
211	Inlet	212	Inlet	3	15	Concrete	N/A																
212	Inlet	208	Inlet	78	15	Concrete	N/A													X			
208	Inlet	213	Endwall	33	24	Concrete	N/A													X			
200	Endwall	200	Endwall	239	54	Metal	5																
199	Inlet	197	Inlet	33	15	Concrete	1																
197	Inlet	195	Inlet	72	18	Concrete	1																

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								Pipe Rehabilitation required by the Design-Builder (See Note 2)? ->	No, unless adversely affected by Project NEXT as defined in the TR's	Yes				No, unless adversely affected by Project NEXT as defined in the TR's	No, unless the Design-Builder decides to utilize the pipes.		
										Pipe Description ->	Existing Pipe is located Upstream of the Project and independent of the Proposed Pipe or Inlet Downstream	Existing Pipe is in the Upstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream	Existing Pipe Connects Directly to the upstream end of a Proposed Pipe or inlet			Existing Pipe Connects Directly to the downstream end of a Proposed Pipe or inlet	Existing Pipe is in the Downstream Portion of the same Storm System, but doesn't connect directly to the Proposed Pipe or Inlet Downstream
196	Inlet	197	Inlet	3	15	Concrete	1										
187	Endwall	186	Inlet	92	24	Metal	1										
186	Inlet	184	Endwall	129	24	Metal	1										
185	Inlet	186	Inlet	4	Unspecified	Concrete	N/A			X							
183	Endwall	183	Endwall	23	15	Concrete	1										
182	Endwall	181	Endwall	246	24	Metal	5				X	X					
121	Inlet	122	Inlet	3	Unspecified	Metal	N/A			X							
122	Inlet	120	Inlet	291	15	Concrete	1										
120	Inlet	115	Inlet	317	18	Concrete	5				X						
119	Inlet	120	Inlet	3	Unspecified	Concrete	N/A			X							
166	Inlet	167	Inlet	36	15	Concrete	3										
167	Inlet	168	Inlet	176	15	Concrete	5								X		
168	Inlet	169	End Section	26	18	Concrete	5								X		
165	End Section	165	End Section	80	15	Concrete	3										
115	Inlet	114	Inlet	6	24	Metal	1										
114	Inlet	113	Manhole	98	24	Metal	5			X							
109	Inlet	108	Inlet	Unspecified	15	Concrete	1										
108	Inlet	Downstream Unspecified Str.	Inlet	216	15	Concrete	5			X							
Downstream Unspecified Str.	Inlet	106	Inlet	4	12	Unknown	N/A			X							
106	Inlet	98	Inlet	395	18	Concrete	1										
98	Inlet	87	Inlet	402	18	Concrete	5			X							
87	Inlet	78	Inlet	382	18	Concrete98	5				X						
Upstream Unspecified Str.	Inlet	98	Inlet	3	12	Unknown	N/A			X							
Upstream Unspecified Str.	Inlet	87	Inlet	4	12	Unknown	N/A			X							

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103	Inlet	100	Inlet	196	36	Concrete	5										X
100	Inlet	95	Inlet	260	36	Concrete	5										X
95	Inlet	89	Inlet	229	36	Concrete	5						X				
89	Inlet	83	Inlet	417	36	Concrete	5						X				
83	Inlet	75	Inlet	233	36	Concrete	5					X	X	X			
63	Endwall	43	Inlet	426	72	Metal	N/A									X	
43	Inlet	42	Endwall	621	72	Concrete	N/A									X	
36	Endwall	39	Endwall	436	57" x 60"	Metal	N/A						X				
134	Endwall	135	Endwall	62	24	Metal	N/A									X	
40	Endwall	41	Endwall	396	60	Metal	2										
131	Inlet	132	Endwall	58	15	Metal	3										
161	Inlet	160	Inlet	41	15	Concrete	N/A									X	
160	Inlet	159	Inlet	8	15	Concrete	N/A									X	
159	Inlet	158	Inlet	31	15	Concrete	N/A									X	
158	Inlet	157	Inlet	6	15	Concrete	N/A									X	
157	Inlet	Unspecified Downstream Outfall	Endwall/ End Section	9	15	Unknown	N/A									X	
5	Headwall	4	Endwall	356	54" x 60"	Metal	N/A									X	

Note 1: The below existing drainage assessment summary is based on the 2019-06-17 survey by Rice Associates and the 2020-01-20 CCTV Inspection Reports by PipeVision. The assessment includes the known existing pipes within the Project NEXT Right of Way. Per the technical requirements, the Design-Builder is required to submit an updated Existing Drainage Assessment report that includes the pipes listed in the below table, plus any additional pipes within the Project NEXT Right of Way that the Design-Builder intends to leave in place.

Note 2: The minimum requirements for pipe rehabilitation are per the VDOT Drainage Manual, Section 8.3.6.7. The Design-Builder is required to rehabilitate all pipes with a defect grade rating (Worst) of "4", "5", or "N/A", as listed in Columns L, M, N, and O. For the pipes listed in Columns K and P, the Design-Builder is NOT required to rehabilitate, unless the pipes are adversely impacted hydraulically or structurally, as defined in the TRs. For the pipes listed in Column Q, the Design-Builder is NOT required to rehabilitate, unless they decide to utilize the pipes and not abandon or remove them as shown in the RFP conceptual plans.