

Project: Hickory Haven-Samary Forest Sanitary Sewer  
 Engineer's Opinion of Probable Construction Cost - Option 3B  
 Location: Goochland County, VA



Date: 10/27/2019

Based on Option 3B Layout  
 (not for construction)

Item #	Description of Work	Unit of Measure	Quantity	Unit Price	Item Total
<b>Gravity Sewer &amp; Appurtenances:</b>					
1	Mobilization	L.S.	1	\$ 60,000	\$ 60,000.00
2	8" PVC Sanitary Sewer Pipe	L.F.	6407	\$ 60	\$ 384,401
3	8" DI Sanitary Sewer Pipe	L.F.	0	\$ 90	\$ -
4	Installation Depth 0-6 Feet	L.F.	508	\$ 30	\$ 15,251
5	Installation Depth 6-8 Feet	L.F.	1419	\$ 35	\$ 49,700
6	Installation Depth 8-10 Feet	L.F.	1444	\$ 40	\$ 57,800
7	Installation Depth 10-12 Feet	L.F.	707	\$ 50	\$ 35,400
8	Installation Depth 12-14 Feet	L.F.	1234	\$ 60	\$ 74,100
9	Installation Depth 14-16 Feet	L.F.	565	\$ 70	\$ 39,600
10	Installation Depth 16-18 Feet	L.F.	529	\$ 80	\$ 42,400
11	Installation Depth 18-20 Feet	L.F.	0	\$ 100	\$ -
12	Select Backfill	C.Y.	650	\$ 70	\$ 45,500
13	Hardpan and Rock Excavation	C.Y.	---	---	---
14	48" Manhole	V.F.	310	\$ 500	\$ 155,000
15	Standard Manhole Frame and Cover	EA.	29	\$ 500	\$ 14,500
16	PVC Service Tee (8" x 4")	EA.	43	\$ 400	\$ 17,200
17	6" PVC Sewer Pipe for House Connection	L.F.	0	\$ 40	\$ -
18	4" PVC Sewer Pipe for House Connection	L.F.	1651	\$ 35	\$ 57,785
19	Excavation and Backfill for 4" Service	L.F.	1651	\$ 30	\$ 49,530
20	4" PVC Cleanout on Service Line at P/L	EA.	54	\$ 400	\$ 21,600
21	3" HDPE Force Main	L.F.	735	\$ 50	\$ 36,750
22	Force Main Service Connection	EA.	6	\$ 1,000	\$ 6,000
23	Connect New Sewer Main to Existing Manhole	EA.	2	\$ 2,000	\$ 4,000
24	Connect New Sewer Service to New Manhole	EA.	11	\$ 500	\$ 5,500
25	Connect New Service to Existing Manhole	EA.	1	\$ 2,000	\$ 2,000
26	Connect New Force Main to New Manhole	EA.	1	\$ 500	\$ 500
27	Private Grinder Pump Station	L.S.	3	\$ 10,000	\$ 30,000
28	Bypass Pump Operation	L.S.	1	\$ 20,000	\$ 20,000
29	Traffic Control	L.S.	1	\$ 90,000	\$ 90,000
				<b>Total</b>	<b>\$ 1,314,518</b>
<b>Erosion &amp; Sediment Control:</b>					
30	Clearing & Grubbing	AC.	1.02	\$ 10,000	\$ 10,200
31	Construction Entrance	EA.	5	\$ 5,000	\$ 25,000
32	Orange Safety Fence	L.F.	3000	\$ 8	\$ 24,000
33	Silt Fence	L.F.	7970	\$ 5	\$ 39,850
34	Riprap	C.Y.	50	\$ 100	\$ 5,000
				<b>Total</b>	<b>\$ 104,050</b>
<b>Restoration</b>					
35	Pavement Milling	S.Y.	2171	\$ 15	\$ 32,600
36	Replace Plant Mix Pavement 10" BM-25 + 2" SM-9.5 (trench only)	S.Y.	271	\$ 90	\$ 24,500
37	Pavement Overlay with 2" SM-9.5	S.Y.	2714	\$ 20	\$ 54,300
38	Grading, Seeding and Straw for Trenches	S.Y.	17805	\$ 10	\$ 178,100
39	Furnish and install 12" or 15" Concrete Driveway Culvert Pipe	L.F.	218	\$ 50	\$ 10,900
40	Stone for Driveway Replacement	L.F.	165	\$ 10	\$ 1,650
41	Additional Stone for Driveway Replacement	S.Y.	200	\$ 10	\$ 2,000
42	Paved Driveway Replacement Trench	L.F.	130	\$ 100	\$ 13,000
43	Concrete Driveway Replacement Trench	L.F.	57	\$ 200	\$ 11,400
44	Additional Driveway Replacement	S.Y.	50	\$ 100	\$ 5,000
45	Replace Miscellaneous Fencing	L.F.	240	\$ 20	\$ 4,800
46	Replace Miscellaneous Trees and Shrubbery per Lot	EA.	33	\$ 1,000	\$ 33,000
47	Utility Pole Stabilization	EA.	18	\$ 1,000	\$ 18,000
				<b>Total</b>	<b>\$ 371,250</b>
				<b>Sub Total</b>	<b>\$ 1,789,900</b>
48	Construction Contingency		20%		\$ 358,000
				<b>Grand Total</b>	<b>\$ 2,147,900</b>

\*Timmons Group's Opinion of Probable Construction Cost (OPCC) is based on best judgment, experience and being qualified professionals generally familiar with the construction industry. Because Timmons Group has no control over the cost of labor, materials, equipment, services furnished by others, or over competitive bidding or market conditions, Timmons Group cannot guarantee that actual construction costs will not vary from the OPCC presented.