

SHEPHERDS HILL – PHASE V-VII WATER & SEWER

Attached, please find a request from the Town Engineer for the Planning Board to the establishment of a bond relative to the Shepherds Hill Water and Sewer Construction at Gifford, Trinity, and Clearview Circle, Hudson NH. The request is to establish a bond in the amount of \$1,084,200.00.

SITE: Gifford, Trinity, & Clearview Circle – Map 177/Lot 005-000

ATTACHMENTS:

- A. Memorandum from Elvis Dhima, dated June 13, 2024 – Attachment “A”
- B. Town of Hudson, NH Road Guarantee Estimate Form for On-Site Work dated May 20, 2024 – Attachment “B”

DRAFT MOTION

I move to approve a bond amount of \$1,084,200.00 relative to the water and sewer improvements located at Gifford Circle, Trinity circle, & Clearview Circle, Map 177/Lot 005-000 as presented in the memorandum from the Town Engineer, Elvis Dhima, to Jay Minkarah, Interim Town Planner, dated June 13, 2024, together with the Road Guarantee Estimate Form.

Motion by: _____ Second: _____ Carried/Failed: _____



TOWN OF HUDSON


Engineering Department



12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6008 • Fax: 603-594-1142

INTEROFFICE MEMORANDUM

TO: Jay Minkarah, Acting Town Planner
Planning Department

FROM: Elvis Dhima P.E., Town Engineer 

DATE: June 13, 2024

RE: Shepherds Hill Development – Phase V-VII

The applicant's Engineer has submitted the bond for the remaining of the work for the water and sewer infrastructure required for this development for the amount of **1,084,200.00**

The amount was reviewed and approved by the Engineering Department and is recommended for approval by Planning Department.

Attachment "B"

**TOWN OF HUDSON, NH
ROAD GUARANTEE ESTIMATE FORM**

In addition to any work already completed, the following itemized statement and estimated units costs will complete the ***water and sewer improvements*** required by the Hudson, NH Planning Board for the following Streets.

Owner: Shepherds Hill Home Owners Association

Date: 5-20-2024

Project Name: Shepherds Hill (Phase V, VI & VII)

Map: 177

Lot: 5

Street Names: Gifford Circle, Trinity Circle and
Clearview Circle

Total Street Length: 2340 FT

	Amount		Total	Bond Remaining	Date
Clearing, 50' width	A.C.	@ \$10,000.00 =	\$ -		
Excavation	C.Y.	@ \$ 20.00 =			
Ledge Removal Mass	C.Y.	@ \$ 55.00 =			
Trench Ledge	C.Y.	@ \$ 75.00 =			
Drainage Swales	L.F.	@ \$ 15.00 =			
Drainage Swale w/Riprap	L.F.	@ \$ 15.00 =			
Hay Bale Dike	EA	@ \$ 5.00 =			
Silt Fence	L.F.	@ \$ 5.00 =	\$ -		
Storm Drains Size/Type					
12" RCP	L.F.	@ \$ 100.00 =			
12" HDPE	L.F.	@ \$ 75.00 =	\$ -		
15" RCP	L.F.	@ \$ 125.00 =			
15" HDPE	L.F.	@ \$ 85.00 =	\$ -		
18" RCP	L.F.	@ \$ 150.00 =			
21" RCP	L.F.	@ \$ 175.00 =			
24" RCP	L.F.	@ \$ 200.00 =			
30" RCP	L.F.	@ \$ 225.00 =			
36" RCP	L.F.	@ \$ 250.00 =			
6" PVC	L.F.	@ \$50.00 =			
Stormtech Systems	U	@ =	\$ -		
6" Underdrain	L.F.	@ \$ 50.00 =			
8" Underdrain	L.F.	@ \$ 60.00 =			
Additional Excavation for Structures	C.Y.	@ \$ 15.00 =			
Catch Basin Grate	U	@ \$ 1,000.00 =	\$ -		
4' Catch Basins	V.F.	@ \$ 500.00 =			
5' Catch Basins	V.F.	@ \$ 750.00 =	\$ -		
4' Drain Manholes	V.F.	@ \$ 500.00 =	\$ -		
5' Drain Manholes	V.F.	@ \$ 750.00 =	\$ -		
Drainage Manhole Covers	U	@ \$ 800.00 =	\$ -		
Headwalls	EA	@ \$ 1,500.00 =	\$ -		
Rip-Rap	S.Y.	@ \$ 75.00 =	\$ -		

Town of Hudson Road Guarantee Estimate

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Subdivision Name: Shepherds Hill (Phase V, VI & VII)

						Total	Bond Remaining	Date
Sanitary Sewer Size								
6" PVC Service Connection	3910	L.F.	@	\$	30.00	= \$ 117,300.00		
8" PVC								
0' - 12' Depth	2180	L.F.	@	\$	100.00	= \$ 218,000.00		
12' - 18' Depth	300	L.F.	@	\$	110.00	= \$ 33,000.00		
10" PVC		L.F.	@	\$	125.00			
Sewer Manhole Grate and Cover		U	@	\$	750.00			
Sanitary Sewer Manholes 4' dia.								
Sanitary Sewer Manholes 4' dia.	210	V.F.	@	\$	450.00	= \$ 94,500.00		
Sanitary Sewer Manholes 5' dia.		V.F.	@	\$	550.00	=		
Service Cleanout	120	EA.	@	\$	350.00	= \$ 42,000.00		
Sewer Manhole Covers	19	U	@	\$	800.00	\$ 15,200.00		
Water Main Size (valves included)								
4" DIP Class 52		L.F.	@	\$	100.00	=		
6" DIP Class 52		L.F.	@	\$	100.00	=		
8" DIP Class 52	2650	L.F.	@	\$	100.00	= \$ 265,000.00		
10" DIP Class 52		L.F.	@	\$	125.00	=		
12" DIP Class 52		L.F.	@	\$	150.00	=		
T/S&V		L.F.	@	\$	4,000.00	=		
Hydrants								
Hydrants	6	EA	@	\$	5,000.00	= \$ 30,000.00		
1" Copper Service (stops included)								
1" Copper Service (stops included)	118	EA.	@	\$	750.00	= \$ 88,500.00		
Bank Run Gravel								
Bank Run Gravel		C.Y.	@	\$	30.00	= \$ -		
Crushed Bank Run Gravel		C.Y.	@	\$	35.00	= \$ -		
Sand Cushion		C.Y.	@	\$	40.00	=		
Hot Bituminous Pavement 28' width								
2 1/2" or 2" Base Course		TONS	@	\$	110.00	= \$ -		
1 1/2" Wearing Course Type F		TONS	@	\$	125.00	= \$ -		
Other			@			=		
Tack Coat		GAL	@	\$	50.00	= \$ -		
Curbing								
Granite		L.F.	@	\$	65.00	= \$ -		
Cape Cod		L.F.	@	\$	35.00	=		
Street Light & Foundation		U	@	\$	2,000.00	=		
Sidewalks								
5' Wide bituminous		S.Y.	@	\$	75.00	= \$ -		
Loam and Seed								
Easement areas		L.F.	@	\$	15.00	=		
R.O.W. areas		L.F.	@	\$	15.00	= \$ -		
Wetland Boundary Markers		U	@	\$	250.00	= \$ -		

Town of Hudson Road Guarantee Estimate

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Subdivision Name: Shepherds Hill (Phase V, VI & VII)

						Total	Bond Remaining	Date
Bounds and Pins								
Property Pins	EA.	@	\$	350.00	=	\$ -		
Road Bounds	EA.	@	\$	500.00	=	\$ -		
Stop Signs	EA.	@	\$	200.00	=	\$ -		
Street Signs	EA.	@	\$	200.00	=	\$ -		
As-Built Plans	L.F.	@	\$	15.00	=	\$ -		
Landscaping								
Trees	EA.	@	\$	500.00	=	\$ -		
Bushes	EA.	@	\$	250.00	=			
Guard Rails	L.F.	@	\$	100.00	=			
Utility Trench (Elec/Tel/TV)	L.F.	@		\$50.00	=	\$ -		
Other required improvements (itemize on separate sheet)	S.F.	@		\$1.00	=			
Subtotal:						\$ 903,500.00		
Mobilization (10% subtotal):						\$ 90,350.00		
Engineering & Contingencies (10% subtotal):						\$ 90,350.00		
Total Estimate						\$ 1,084,200.00		
Maintenance Level (10% of the Original Amount):						\$ 108,420.00		
Total Estimate: Water & Sewer Improvements						\$ 1,084,200.00		

Prepared Name: Jeff Quirk (Keach-Nordstrom Associates)
KNA Project # 17-0824-1

Date: 5-20-2024

Rev 01/2024