



To: THOA Board

From: Kurtis M. Hafferman, P.E.

Date: June 12, 2020

Re: Confirmation New Units 3 bedroom Limit

This memorandum is in response to the email from Dan McCarthy of May 19, 2020. In the email Mr. McCarthy had asked for “...confirmation that new houses at Timbrshor are limited to 3 bedrooms under the septic plan.”

Attached in Appendix 1 this memorandum is a copy of Appendix A from the report submitted to the Montana DEQ regarding the Wastewater Treatment System (WWTS) design. As can be seen in the Appendix 1 documents are spreadsheets developed for the WWTS. The spreadsheets show both the existing units and not developed units. As an example, the System A spreadsheets shows that existing units that have more, or less, than three bedrooms have been accounted for in the final design.

As one looks forward, the spreadsheets that show the not-developed units, show the design is based on the number of bedrooms with a design flow for three (3) bedrooms and the daily design flow of 250 gallons per day (gpd) on System A and 300 gpd on all other systems. The basis for that design is developed from MDEQ Design Circular 4, Chapter 3. Wastewater section 3.1 Wastewater Flows part 3.2.1A. which states in part that “...Living units will be considered to have three bedrooms unless otherwise approved.” HEI used this as the design for all non-developed units.

Therefore, in response to the Dan McCarthy Email of May 19, 2020, HEI confirms that new units developed at the Timbrshor Subdivision are limited to three bedrooms under the WWTS plan approved by the MDEQ.

kmh

S:/.../T.58.2/Documents/Water System design/Final Design 2020/HEI Memorandum WWTS Unit Capacity



APPENDIX 1

Appendix A Wastewater Treatment System Design Report June 11, 2014

APPENDIX A

BHI SPREADSHEET OF DEVELOPED AND YET TO BE DEVELOPED UNITS



BILLMAYER & HAFFERMAN, INC.

Project: Timbrshor/Borcher's at Finley Point

Project#: T.58.1

By: KMH/DAN

Date:

Revised

2/27/2014

6/5/2014

Title:		PROPOSED SYSTEM A						
Area	Unit#	Owner	Existing #Bdrms	Existing Flows	Design # Bdrms	THOA Design Flows	DEQ Flows following 10 Connections	Statu(D=developed-#bdrms ND = not developed)
A	201	Rose/McFadden/O'Connor	2	225	3	300	250	D-2
A	203	Acher	2	225	3	300	250	D-2
A	204	Swindlehurst	2	225	3	300	250	D-2
A	205	Rotondi	5	400	5	400	250	D-5
A	206	Walters	3	300	3	300	250	D-3
A	209	Peterson	3+loft	350	4	350	250	D-4
A	210	Schwank	2	225	3	300	250	D-2
A	211	Fordahl	1	150	3	300	250	D-1
A	216	Borchers, Alice	0	0	3	300	250	ND
A	217	Borchers, Alice	0	0	3	300	250	ND
A	219	Borchers-Michione	0	0	2	225	250	ND
A	Lodge	Rose	4	350	4	350	250	D-4
A	306	Selvig	2	225	2	225	250	D-2
A	307	Payson	2	225	2	225	250	D-2
A	308	Novinski	2	225	2	225	250	D-2
A	309	Johnson/Cole	2	225	2	225	250	D-2
A	301	Karpstein	3	300	3	300	250	D-3
A	302	Rountree	2	225	2	225	250	D-2
A	305	Estvold	3	300	3	300	250	D-3
Totals	19		37	4175	55	5450	4750	



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	Title:	PROPOSED SYSTEM B								
Area	Unit#	Owner	Existing #Bdrms	Existing Flows	Design # Bdrms	THOA Design Flows	DEQ Flows following 10 Connections	Statu(D=developed-#bdrms ND = not developed)		
B	311	Tillinghast	2+Loft	300	3	300		D-2.5		
B	312	Long	3	300	3	300		D-3		
B	314	Brooke-Lewis	2	225	3	300		D-2		
B	315	Freireaband	2	225	3	300		D-2		
B	316	Ammonns-Isbell	2	225	3	300		D-2		
B	Laundry	THOA		50		0		No Longer Used		
Total Units		5	12	1325	15	1500				



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	Title:		PROPOSED SYSTEM C					
Area	Unit#	Owner	Existing #Bdrms	Existing Flows	Design # Bdrms	THOA Design Flows	DEQ Flows following 10 Connections	Status(D=developed-#bdrms ND = not developed)
C	403/404	Cobb	0	0	3	300		ND
C	406	Armstrong	3	300	3	300		D-3
C	408	Carraway	0	0	3	300		ND
C	409	Roy	3	300	3	300		D-3
C	410	Sand	0	0	3	300		ND
C	411	Mead	3	300	3	300		D-3
C	412	Cox	3	300	3	300		D-3
C	414	McCarthy	0	0	3	300		ND
Total Units	8		12	1200	24	2400		



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Title:		PROPOSED SYSTEM D						
Area	Unit#	Owner	Existing #Bdrms	Existing Flows	Design # Bdrms	THOA Design Flows	DEQ Flows following 10 Connections	Status(D=developed-#bdrms ND = not developed) D-3
D	418/419	Cobb	3	300	3	300		D-3
D	426	Borchers-Bill	0	0	3	300		ND
D	427	Maxwell	0	0	3	300		ND
D	428	Rys-Sikora	3	300	3	300		D-3
D	430	Rys-Sikora	0	0	3	300		ND
Total Units		5	6	600	15	1500		



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Title: PROPOSED SYSTEM E								
Area	Unit#	Owner	Existing #Bdrms	Existing Flows	Design # Bdrms	THOA Design Flows	DEQ Flows following 10 Connections	Status(D=developed-#bdrms ND = not developed)
E	417	Puckett	0	0	3	300		ND
E	421	Johnson	0	0	3	300		ND
E	422	Johnson	0	0	3	300		ND
E	424	Johnson	0	0	3	300		ND
E	429	Borchers-Alice	0	0	3	300		ND
E	401	Johnson **	3	300	3	300		D-3
E	402	Manning**	3	300	3	300		D-3
Total Units	7		6	600	21	2100		



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Title:		PROPOSED SYSTEM F								
Area	Unit#	Owner	Existing #Bdrms	Existing Flows	Design # Bdrms	THOA Design Flows	DEQ Flows following 10 Connections	Status(D=developed-#bdrms ND = not developed)		
F	317	McCarthy	4	350	4	350		D-4		
F	318	McCarthy	0	0	3	300		ND		
F	320	McCarthy	0	0	3	300		ND		
Total Units			4	350	10	950				