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Refer to File No. LYF-0381B

January 27, 2022

Emilie Cademartori Planning Board Town Hall, 55 Summer St Lynnfield, MA 01940

RE: Response to Linden Engineering Letter, Dated: December 9, 2021 Response to Lynnfield Center Water District Letter, Dated: June 23, 2021 Vallis Way, Lynnfield, MA

Dear Emilie,

The following are the applicant's responses to the issues raised by Linden Engineering which were not completed to their satisfaction. Numbers in this letter correspond to the numbers in that response.

### COMMENTS FROM LINDEN ENGINEERING'S JUNE 17, 2021, INITIAL REVIEW

- 3. Requires an action of the Planning Board.
- 8. The standard soil test pit logs for SWMA 1, 2, & 3 were provided in the report entitled "Drainage Analysis, Vallis Way, Lynnfield, Massachusetts, Dated: April 15, 2021. They are included here for easy access.
- 9. It is my understanding the Town Council provided the Planning Board with an opinion on the Stormwater Management Bylaw Regulations as it relates to this subdivision, and I have been led to believe the conclusion is that a separate stormwater permit is not required for a plan that has undergone the scrutiny of the Planning Board.
- 10. This requires a legal opinion.
- 11. The catch basin at the end of the street at Station 9+63.32 can be changed to a double catch basin grate.
- 12. It is believed that the exact location of the gate, or gates, can be determined on the ground with the developer and contractor.
- 14. I believe the Town council has weighed in on the legality of the easement to Smith Farm Trail.
- 19. The recommendation can be accommodated.



To: E. Cademartori, Planning Board

RE: Response – Linden Engineering Letter, Dated: December 9, 2021

Response – Lynnfield Center Water District Letter, Dated: June 23, 2021

Date: January 27, 2022

### **Comments from the Town Engineer**

- 3. Requires and action of the Planning Board.
- 4d. The additional details can be provided.
- 6. The applicant's engineer has arranged a meeting with the Water District Superintendent to resolve any issues relative to the water system. The plans for RMLD for servicing the future lots are unknown to the undersigned at this time. The developer has indicated that natural gas is not being provided to this subdivision.
- 7. The additional light can be added to the plan.

### SHEET 1 of 8 (now 10) - LOTTING PLAN

SECTION 375-7.1.D(1) - Requires an action by the Planning Board

### SHEET 3 of 8 (now 10) - PLAN AND PROFILE

- G. The handicapped ramps can be extended to the back edge of sidewalk.
- H. It has been determined that the applicant will be blasting the entire hill away to bring the grade down as requested by the abutter.
- J. The additional details can be added.
- L. The Planning Board needs to make a determination as to this.
- O. The additional light can be added to the plan.
- S. It is the undersigned's opinion that placing the sediment control in a shallow trench can cause further environmental damage, such as root damage.

### SHEETS 7 & 8 of 8 (now 8, 9, & 10 of 10) - DETAIL SHEETS

375-6.4.G(1)(h) - Will be removed.

Z. The applicant's engineer has set a meeting with the Water District Superintendent to review his criteria.



To: E. Cademartori, Planning Board

RE: Response – Linden Engineering Letter, Dated: December 9, 2021 Response – Lynnfield Center Water District Letter, Dated: June 23, 2021

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AA.A. The note can be added to the plan. The applicant has verified that the STC 900 can accept the pipes as indicated, the discrepancy will be corrected. (To the best of our knowledge, the new Town Engineer has not weighed in on the drainage system.)

DD. The drain configuration will be revised, sizing calculation provided, and test holes conducted.

FF.2). Needs to be addressed by the Geotechnical Engineer.

FF.4). Needs to be responded to by the applicant's council.

GG. The paragraph will be added to the plan.

KK. The Board of Health should be in the position to respond, septic inspector's inspection of the existing sanitary systems at 109 Lowell Street has been submitted, which was the only additional information they requested.

LL. Needs to be addressed by the applicant's lawyer.

MM. The plan will be amended to show that the bituminous concrete sidewalk and berm being replaced with a former driveway to 109 Lowell Street is being abandoned.

It is the undersigned understanding that the Planning Board was looking for a direct response to each of the items referenced in this letter, in addition to the engineer's response to the Water District concerns in a November 30<sup>th</sup> letter by the applicants engineer to John Schenna, P.E., Superintendent Lynnfield Water District, Dated: November 30, 2021. The following are the applicant's responses to the issues in the Lynnfield Center Water District Letter to Emilie Cademartori, Director of Planning and Conservation, Town Hall, 55 Summer Street, Town of Lynnfield, 01940. Numbered paragraphs in this response correspond to the numbers in that June 23, 2021, letter.

- 1. The discussions with the Water Superintendent, the undersigned provided the results of the flow test at the end of Mohawk Lane which is hydraulically similar to the proposed Vallis Way subdivision. I believe the conclusion of that test was that adequate fire and domestic flow is available in this area for the proposed subdivision.
- 2. We have improved the geometry of the water main extension to Smith Farm Trail. The language of the easement.
- 3. The applicant understands that construction and testing requirements of the Lynnfield Center Water District must be adhered to and also that shop drawings are required for submittal prior to construction. Language will be in the H-1 conveyance, this is an issue between the town and the district.



To: E. Cademartori, Planning Board

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3a. A fire hydrant has been added at approximately Station 4+35 to meet the requirements. A  $10 \times 10$ -foot easement should not be required as the fire hydrant is within the layout.

3b. A triple gate will be added at the Smith Farm Trail connection.

3c. Again, the proposed hydrant at the end of the street does not require a  $10 \times 10$ -foot easement for repair or placement.

3d. The applicant understands that the tapping sleeve needs to be stainless steel.

4. The applicant understands that the homes to be constructed must have 1" diameter piping for their services and be copper from the main to the curb stop but can be plastic from the curb stop to the house.

5. The main on Vallis Way is constructed for a proposed future extension with an 8 x 8 x 6Tee and hydrant gate. Main will be terminated with a mechanical joint cap.

6. The Lynnfield Center Water District fees and bonding requirements should be discussed with the applicant after the project is approved.

Very truly yours,

Peter J. Ogren, P.E., P.L.S.

29 39 Peter

PJO/ao

Enclosure

Cc: Paul Caggiano

Jay Kimball

John Schenna, P.E., LCWD

Patrick McAlpine, P. E., Town Engineer

William Jones

i · Page 8 of 8 SAGAMORE GOLF COORSE Form 11 - Soll Suitability Assessment

Form 11 - Soil Suitability Assessment Commonwealth of Massachusetts City/Town of ムタシンドににつ

Field Diagrams

Use this sheet for field diagrams:





Commonwealth of Massachusetts City/Town of  $L/\sqrt{N}/\Gamma$  | ELP | Form 11 = Soil Suitabillity Assessment

# C. Om-Site Review (continued)

Deep Observation Hole Number:

SWMA-3

Coarse Fragments % by Volume % by Volume Gravei Cobbles & Structure Consistence Other							
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		360	N	· W	8	,	
		%		%	30		
Coarse F % by \	Graveí	0		0	8		
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		Ţ	<b>5</b> 3	ë	62		
		0-10	10-24	24-40	40-132		

Additional Notes:

Form 11 – Soil Suitability Assessment

### Commonwealth of Massachusetts City/Town of $\mathcal{C}_{V}/\mathcal{N}$ $\mathcal{L}_{E}\mathcal{L}_{D}$ Form 11 = Soil Suitability Assessment

$\bigcirc$	C. On-Site Review (continued)		
-	500 mars	4-13-21 CLOY 45° Weather Time	
ζ,	1. Location VALUS WAY		
	Ground Elevation at Surface of Hole:	Latitude/Longitude:	
8	Land Use	NONE	
	(e.g., woodland, agricultural field, vacant lot, etc.)	Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)	(%)
ကဲ	Vegetation Land Distances from: Open Water Body ?   00	Form Position on Landscape (SU, SH, BS, FS, May Way	
	90	Well 7/00 Other	
4.	4. Parent Material: Outung M	. <u>Lu</u>	
rç,	If Yes: ☐ Disturbed Soil ☐ Fill Material. Groundwater Observed: ☐ Yes ☐ No Estimated Depth to High Groundwater:	☐ Impervious Layer(s) ☐ Weathered/Fractured Rock ☐ Bedrock if yes: //O //O Depth Weeping from Pit Depth Standing Water in Hole	elo elo



### Commonwealth of Massachusetts City/Town of LYNNPIELD Form 11 - Soil Suitability Assessment

C. On-Site Review (continued)

Deep Observation Hole-Number:

SWMD-2

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	Other							
Soil	Consistence (Moist)	no me	Fre	STARK	1720	Sirve.	少两	
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l	Soil Texture (USDA)		52 50 20 Zo	SO 16	27.	500	Ch.	
űres	Percent							
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	Depth		-				7132	
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Soil Horizon/	oil Horizon/ {		Ber	Ü	62	C	04	
Depth (in.)		6-0	9-24	24-63	63-83	83-115	115-132	

Additional Notes:

Form 11 - Soil Suitability Assessment

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Form 11 - Soil Stittability Assessment



## Form 11 - Soil Suitability Assessment Commonwealth of Massachusetts City/Town of $\mathcal{LYADFIELD}$

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C. On-Site Review (continued)

Deep Observation Hole Number:

	Other								
	Soil	Consistence (Woist)	13th	しないた	W.C.	True	-JAW.		
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				100%	201 22	00	10		
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			A	3	Ü	b	C)	-	
			01.0	10-24	24-30	20-60	60-144		

Additional Notes:

U	C. On-Site Review (continued).			
_	Deep Observation Hole Number: 510mA 1 4-13-21	Time	Sunny 48° Weather	1
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Ŋ	2. Land Use WOODS	人の心に	M	1
	(e.g., woodland, agricultural field, vacant lot, etc.) のかに、アパルビ	Surface Stones (e.g., cob	Surface Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)	
က်	3. Distances from: Open Water Body 7 00 Drainage Way	, toel	Position on Landsoape (SU, SH, BS, FS, Wetlands	1 1
	Property Line Community Line Water Weil		Other	1
4.	4. Parent Material: Oct Was b Pund	Unsuitable Materials Present:	: Tyes No	
	if Yes: ☐ Disturbed Soil ☐ Fill Material ☐ Impervious Layer(s)	☐ Weathere	Weathered/Fractured Rock  Bedrock	
ťζ	5. Groundwater Observed: Tyes HTNo If yes:	200		1
	Estimated Depth to High Groundwater: 7 1444	Teprin Vveeping from Pir.	Pit Lepth Standing Water in Hole	n)

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G. Soil Evaluator Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Signature of Soil Evaluator

Gordon Rogerson SE2の74 Typed or Printed Name of Soil Evaluator / License #

June 30, 2022 Expiration Date of License

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Form 11 - Soil Suitability Assessment.

Commonwealth of Massachusetts City/Town of LYNNFIELD Form 11 = Soil Suitability Assessment

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	A. Facility Inf LINDB	Owner Name	Street Address		B. Site Information	1. (Check one)	2. Soil Survey Available?	MER	Soil Name	Geologic/Parent Material 3. Surficial Geological F	4. Flood Rate I	Above the 500-yes If Yes, continue to #5.	5. Within a velocity zone?	6. Within a Map	7. Current Wat	8. Other refere	

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