

September 4, 2018

Amanda Lessard, Town Planner Town of Windham 8 School Road Windham, ME 04062

Re: Response to Review Comments

Gray Road Retirement Community

Weld, LLC - Applicant

Dear Amanda:

On behalf of Weld, LLC we have prepared the enclosed plans and supporting material in response to review comments received for the Gray Road Retirement Community project. We have revised the plans in response to the email comments received from the Planning Department dated 7/30/18 and from the Town Engineer dated 8/17/18.

We have also included preliminary building elevation plans and septic system HHE-200 designs for the proposed wastewater disposal fields. A Nitrate Study is currently underway, and we are coordinating final approval of the water main infrastructure design with the Portland Water District. A ground survey of the proposed stormwater basins will be performed prior to final approval of the project.

It is our opinion that the requirement for a High Intensity Soil Survey can reasonably be waived. The three soil types mapped on the property by the Medium Intensity maps are all classified as silty loam or sandy loam, which have similar characteristics. The soils on the property are mostly classified as Hydrologic Soil Group "C" soils, with some small areas of HSG "B" soils. The project will be served by public water, and septic systems will be consolidated into two specific areas, which will include HHE-200 designs and a nitrate analysis that considers the specific soil types encountered and analyzed at the septic system locations.

Upon your review of this information, please let us know if you have any questions or require any additional information.

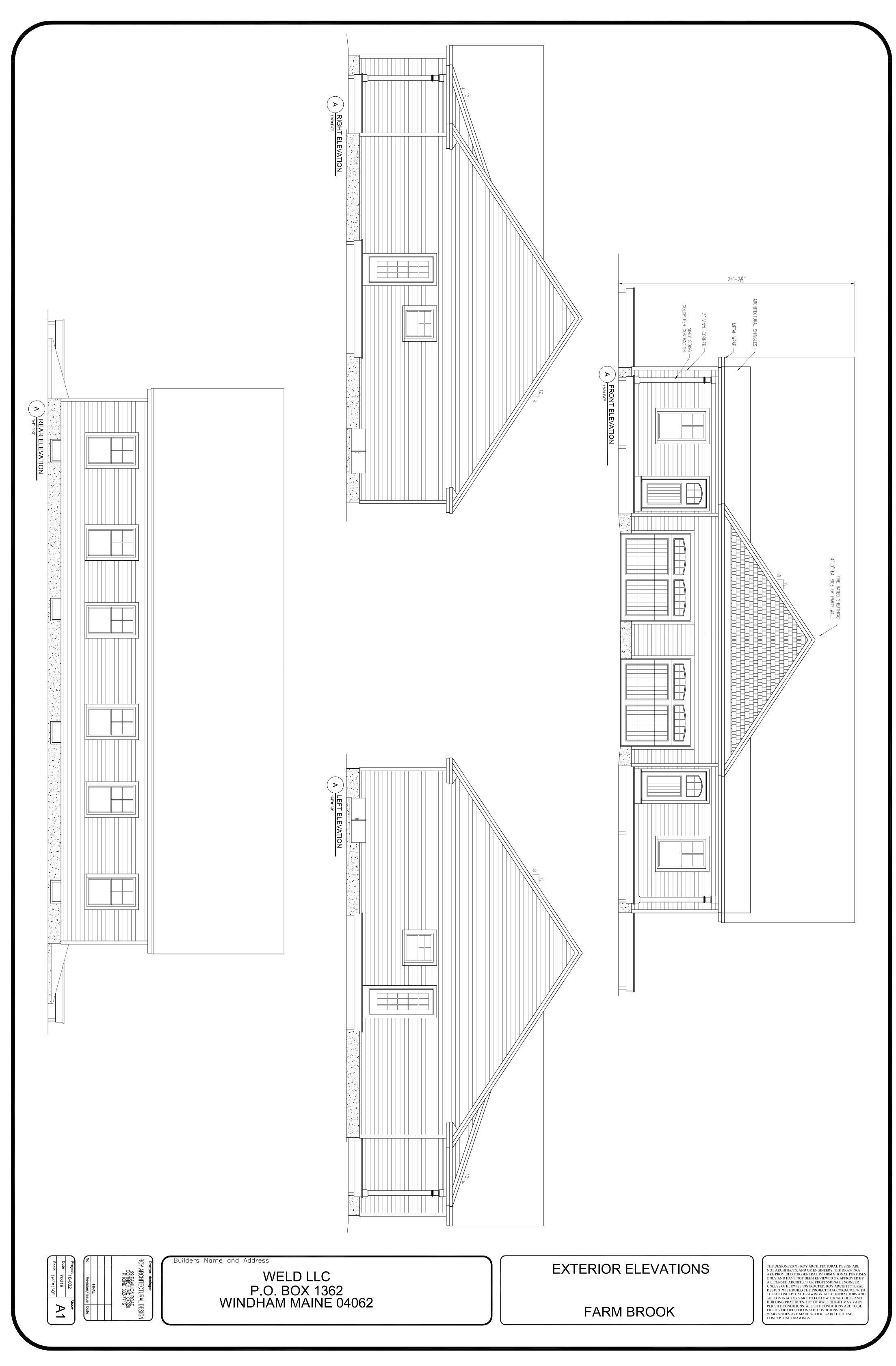
Sincerely,

DM ROMA CONSULTING ENGINEERS

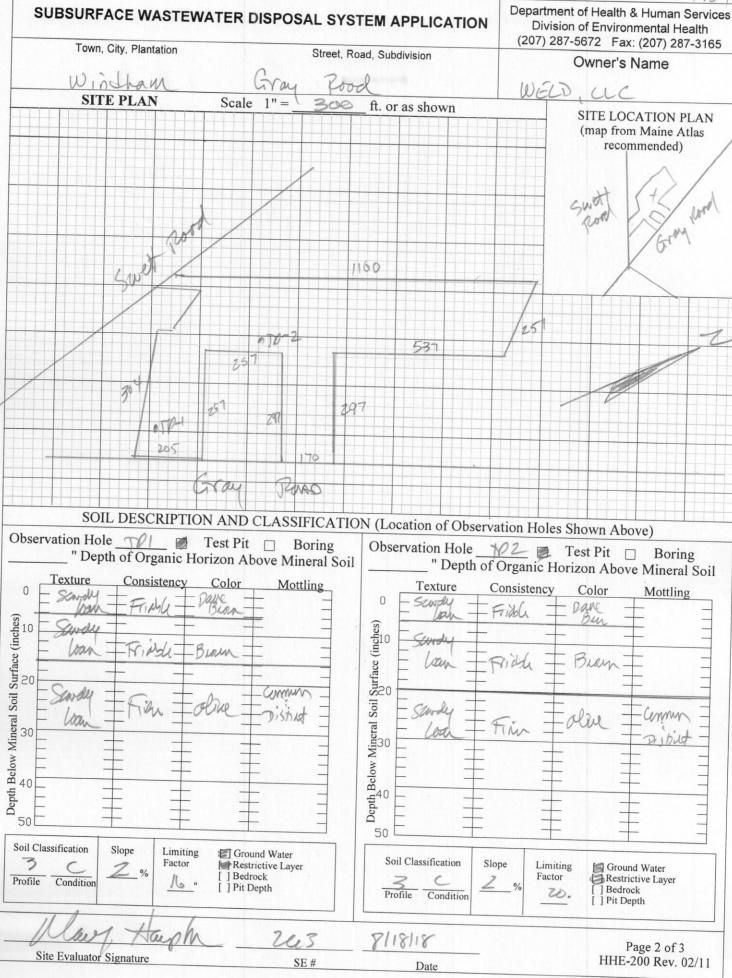
Dustin M. Roma, P.E.

Dustin Roma

President

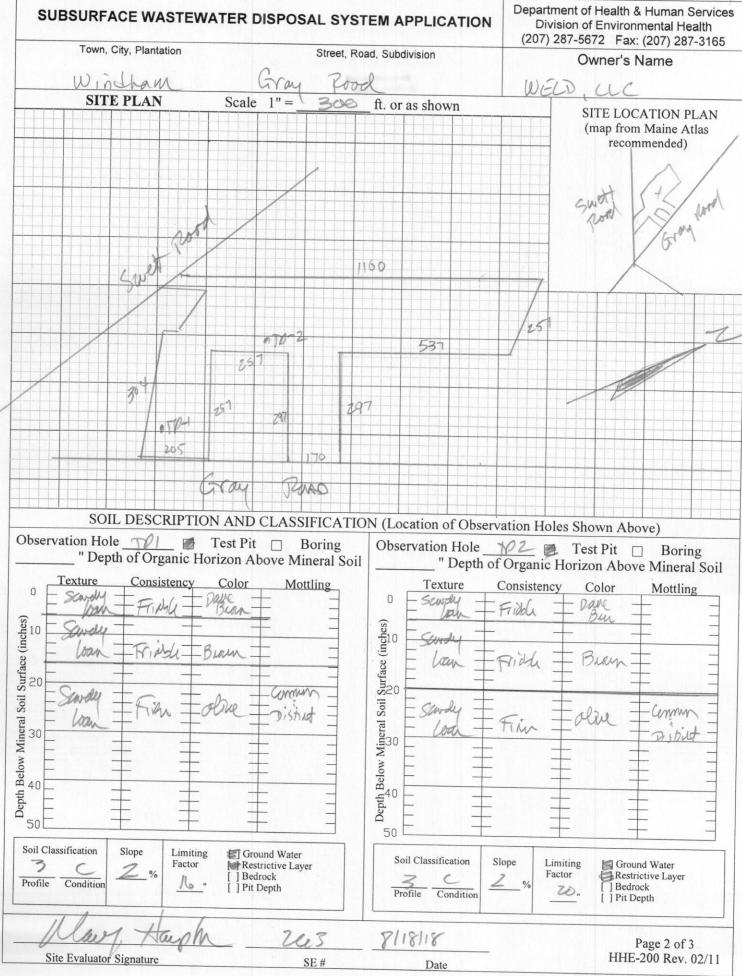


		TEWATER DISPOSAL SY Y LOCATION		and the same of a same	(20)	Environmental Health, 11SHS 7) 287-2070 Fax: (207) 287-417
City, Town,				UTION: LPI A		QUIRED <<
or Plantation	Wind	rela	Town/City			
Street or Road			Date Permit Issued// Fee: \$		e: \$	Double Fee Charged []
Subdivision, Lot #			Local Plumbin	g Inspector Signatu	re	L.P.I. #
OWNER/	APPLICA	ANT INFORMATION	Fee: \$	state min fe	9 \$	_Locally adopted fee
Name (last, first, MI)	01	Owner	COPY. [] OWNE	i [] Iown [State	
Mailing Address	P.,	Applicant Applicant	I he Subsurface V	Vastewater Dispos	sal System shall n	ot be installed until a
of 110, 124 1361		Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance				
	Owner/Applicant Wintow 04062		with this application and the Maine Subsurface Wastewater Disposal Rules.			
Daytime Tel. #		1-5930	Municípa	I Tax Map #	Lot #	
my knowledge and under and/or Local Plumbing Ins	that the inform		with the Substi	CAUTION: INSPEC ed the installation author inface Wastewater Disp	oirzed above and found osal Rules Application	(1st) date approved
	io di Omilei e		AIT INFORMATION	l Plumbing Inspector S	ignature	(2nd) date approved
TYPE OF APPLI		THIS APPLICATION RE			OSAL SYSTEM O	OMPONENTO
1. First Time Syste		No Rule Variance	e		DISPOSAL SYSTEM COMPONENTS 1. Complete Non-engineered System	
Replacement Sy Type replaced:		First Time System Variance A Local Plumbing Inspector Are	provel	3. Alte	 Primitive System (graywater & alt. toilet) Alternative Toilet, specify: 	
Year installed:		a. Local Plumbing Inspector Ar b. State & Local Plumbing Insp	ector Approval	4. Non-engineered Treatment Tank (only)		ment Tank (only)
3. Expanded Syste a. <25% Expansi b. ≥25% Expansi		Replacement System Variance A local Plumbing Inspector And		Holding Tank, gallons Non-engineered Disposal Field (only)		_ gallons sal Field (only)
		a. Local Plumbing Inspector Ap b. State & Local Plumbing Insp	spector Approval 7. Separated Laundry System		stem	
4. Minimum Lot Size Variance			Complete Engineered System (2000 gr Engineered Treatment Tank (only)		t Tank (only)	
5. Seasonal Conversion 5. Seasonal Conversion Permit			10. Engineered Disposal Field (only)		Field (only)	
SIZE OF PROPE		DISPOSAL SYSTEM TO SE 1. Single Family Dwelling Unit, No.	RVE of Podroome:	12. Mis	cellaneous Compo	nents
11.4xe	SQ. FT.	Multiple Family Dwelling, No. of	Units: Z-ZBJM	TYF	E OF WATER SU	PPLY
SHORELAND Z	ONING	3. Other:(specify)		1. Drilled	Well 2. Dug We	ell 3. Private
Yes	No .	Current Use Seasonal Year Ro	ound Undeveloped	4. Public	5. Other	
		DESIGN DETAILS (SYS	STEM LAYOUT SH	OWN ON PAG	GE 3)	
TREATMENT TA 1. Concrete a. Regular b. Low Profile 2. Plastic 3. Other: CAPACITY:	GAL.	DISPOSAL FIELD TYPE & SI 1. Stone Bed 2. Stone Trench 3. Proprietary Device a. cluster array c. Linear b. regular load d. H-20 load 4. Other:	1. No 2. Yes 3. Maybe If Yes or Maybe, specify one below: a. multi-compartment tank		DESIGN FLOW 366 gallons per day BASED ON: 1. Table 4A (dwelling unit(s)) 2. Table 4C(other facilities) SHOW CALCULATIONS for other facility	
SOIL DATA & DESIGN	CLASS	SIZE: 1248 sq. ft. lin. ft	d. Filter on Tanl			The form of other facilities
PROFILE CONDITION		DISPOSAL FIELD SIZING	EFFLUENT/EJEC 1. Not Required	TOR PUMP	Section 4G ATTACH WAT	(meter readings) ER METER DATA
at Observation Hole #	101	1. Medium 2.6 sq. ft. / gpd	2. May Be Required		LATITUE	E AND LONGITUDE
Depth <u>lle</u> "		 MediumLarge 3.3 sq. ft / gpc Large4.1 sq. ft. / gpd 	3. Required Specify only for engine		Lat. 43 d	er of disposal area
of Most Limiting Soil Fac	ctor	4. Extra Large5.0 sq. ft. / gpd	B000	gallons	Lon. 20 d	25 mod s
		SITE EVALU	ATOR STATEME	NT	if g.p.s, state ma	irgin of error: 18
certify that on R1	17/10					
at the proposed sys	stem is in	(date) I completed a site evalue compliance with the State of Main	uation on this proper	ty and state that	the data reported	are accurate and
Maur	· Ha	u o ha	21 >	water Disposal R	uies (10-144A C	MR 241).
Site E	valuator	Signature	SE#	8	Date	
MAG	WJ.	Hamsten	756-29	44	Date	
Site È	valuator	Name Printed	Telephone N	The state of the s	E mail	Address
ote : Changes to or	deviation	s from the design should be confir			L-mail	Address
			med with the Site EV	aluator.	НН	Page 1 of 3 E-200 Rev.11/2013



	DISPOSAL SYSTEM APPLICATION	Division of Environmental Health (207) 287-5672 Fax: (207) 287-3165
Town, City, Plantation	Street, Road, Subdivision	Owner's Name
SUBSURFACE WAST	· Road	
SUBSURFACE WAST	TEWATER DISPOSAL PLAN	WEID, ac
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/ Inc. 23	26	
	4 courses 6/2 Elean Distribution	and the second
	26 total. Buy	
	205	
FILL REQUIREMENTS	CONSTRUCTION OF COME ROAM	
	CONSTRUCTION ELEVATIONS Grade Elevation -27	ELEVATION REFERENCE POINT
Top of D	istribution Pipe or Proprietary Device 37	Reference Elevation: 0"
Note: Materials and installation shall	f Disposal Area -48	Reference Elevation:
be in accordance with Maine Subsurface Wastewater Disposal Rules dated 08/15	OSAL AREA CROSS SECTION	Scale
as amended.		Horizontal $1'' = 4$ ft.
		Vertical 1" = 4 ft.
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	grant Triber)_01.(/
11/10 + 06		
Man) tayah	243 8/18/18	Page 3 of 3
Site Evaluator Signature	SE # Date	HHE-200 Rev. 02/11

SUBSURFAC	CE WAST	EWATER DISPOSAL SYS	TEM APPLICAT	TION	Div	ine Dept. Health & Human Service Environmental Health, 11SHS 7) 287-2070 Fax: (207) 287-4172	
F	PROPERTY	LOCATION	>> CAU	TION: LPI API	PROVAL RE	QUIRED <<	
City, Town, or Plantation	City, Town,		Town/City Permit #				
Street or Road	Con	2	Date Permit Issued ·// Fee: \$ Double Fe			Double Fee Charged []	
Subdivision, Lot #	chaq	HONEZ				L.P.I. #	
	NA DDI ICA	NT INFORMATION		Inspector Signature			
Name (last, first, MI		NT INFORMATION Owner	Copy: [] Owner	[] Town []	State	Locally adopted fee	
W	EID U	Applicant				not be installed until a	
Mailing Address of P. 21 BW 1361		W 1361	Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance				
Owner/Applicant			with this application and the Maine Subsurface Wastewater Disposal Rules.				
Daytime Tel. #	33	-5950	Municipal Tax Map # Lot #			That have a	
I state and acknowledg my knowledge and und and/or Local Plumbing	ge that the informaterstand that any Inspector to den			CAUTION: INSPECT If the installation author face Wastewater Dispo	zed above and foun	d it to be in compliance n(1st) date approved	
Signa	ature of Owner or		IT INFORMATION	Plumbing Inspector Sig	inature	(2nd) date approved	
TYPE OF APP	PLICATION	THIS APPLICATION REQ			SAL SYSTEM	COMPONENTS	
1. First Time Sy:		No Rule Variance	OINEO	DISPOSAL SYSTEM COMPONENTS 1. Complete Non-engineered System			
2. Replacement	System	2. First Time System Variance		 Primitive System (graywater & alt. toilet) Alternative Toilet, specify: 			
Type replaced:		a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval		4. Non-	4. Non-engineered Treatment Tank (only) 5. Holding Tank, gallons 6. Non-engineered Disposal Field (only)		
Year installed: 3 Expanded Sv			Replacement System Variance				
3. Expanded System a. <25% Expansion b. ≥25% Expansion a. Local Plumbing Inspector b. State & Local Plumbing I		 a. Local Plumbing Inspector App b. State & Local Plumbing Inspector 	r Approval Inspector Approval 7. Separated Laundry System 8. Complete Engineered System (200 9. Engineered Treatment Tank (only)		System		
4 Evporimental System		4. Minimum Lot Size Variance			9. Engineered Treatment Tank (only)		
5. Seasonal Cor	nversion	5. Seasonal Conversion Permit	t 10. Engineered Disposal Field (only) 11. Pre-treatment, specify:				
SIZE OF PRO	OPERTY	DISPOSAL SYSTEM TO SER			cellaneous Comp		
. 11.4Ac	SQ. FT.	 Single Family Dwelling Unit, No. Multiple Family Dwelling, No. of Units 		TYP	E OF WATER S	UPPLY	
SHORELANI		3. Other:		1. Drilled	Well 2. Dug V	Vell 3. Private	
Yes	No.	(specify) Current Use Seasonal Year Ro	und Undeveloped	4. Public	5. Other		
		DESIGN DETAILS (SYS		IOWN ON PAG	E 3)		
1. Concrete a Regular b. Low Profile 2. Plastic 3. Other: CAPACITY:	7 000 GAL.	1. Stone Bed 2. Stone Trench 3. Proprietary Device a. cluster array c. Linear b. regular load d. H-20 load 4. Other: SIZE: Sq. ft lin. ft.	1. No 2. Ye If Yes or Maybe, a multi-compar b tanks in a c. increase in ta	series ink capacity	BASE 1. Table 4A 2. Table 4C(gallons per day gallons per day D ON: (dwelling unit(s)) other facilities) LCULATIONS for other facilities	
SOIL DATA & DESIGN CLASS PROFILE CONDITION		DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP 1. Not Required			G (meter readings) ATER METER DATA	
at Observation Hole # P2 1. Medium2.6 sq. ft. / gpd		2. May Be Required		LATITUDE AND LONGITUDE			
Depth 20"		 MediumLarge 3.3 sq. f.t / gpc Large4.1 sq. ft. / gpd 	3. Required Specify only for engin	porad systems:	Lat.	enter of disposal area d m s	
of Most Limiting Soi	il Factor	4. Extra Large5.0 sq. ft. / gpd	DOSE:	A CONTRACTOR OF THE PARTY OF TH	Lon if g.p.s, state	ds ds margin of error:	
		SITE EVALU	ATOR STATEME	NT			
I certify that on		(date) I completed a site eval compliance with the State of Main	uation on this proper	rty and state that	the data report Rules (10-144A	ted are accurate and CMR 241).	
Mle	M. Ho	Signature	- Zee3	6	8118118		
Site Evaluator Signature MAMATA Hawalia		JC1 - 20	۸۸	Date			
Site Evaluator Name Printed			756-29 Telephone				
		ns from the design should be confi				Page 1 of 3	



	DISPOSAL SYSTEM APPLICATION	Department of Health & Human Services Division of Environmental Health (207) 287-5672 Fax: (207) 287-3165		
Town, City, Plantation	Street, Road, Subdivision	Owner's Name		
Windham	Ga. Duas			
	EWATER DISPOSAL PLAN	WELD, LLC		
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		SCALE: 1" = 20 FT.		
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	EAP	125 total		
Note: Materials and installation shall	256 PL			
be in accordance with Maine Subsurface Wastewater Disposal Rules dated 08/15				
as amended.				
FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	EL EVATION DEPENDINGS		
Depth of Fill (Upslope) Finished	Grade Elevation -33	ELEVATION REFERENCE POINT Location & Description:		
Top of Di	istribution Pipe or Proprietary Device -43	Location & Description: Nat 60' 49 Reference Elevation:		
Pottom of	f Disposal Area —54	Reference Elevation:		
DISPO	OSAL AREA CROSS SECTION	Scale		
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	19'	Vertical 1" = 4 ft.		
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May Haushn	7.2 246			
1 1000/11/1	243 811818	Page 3 of 3		
Site Evaluator Signature	SE# Date	HHE-200 Rev. 02/11		