

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

99 Ararat Street		Worcester	01606
a. Street Address		b. City/Town	c. Zip Code
Latitude and Longit	tude:	d. Latitude	e. Longitude
37-007		46+48	o. Longitudo
f. Assessors Map/Plat N	lumber	g. Parcel /Lot Num	ber
Applicant:			
Athanasios		Engonidis	
a. First Name		b. Last Name	
c. Organization			
133 Fisher Road			
d. Street Address			,
Holden		AM _AM	01520
e. City/Town		f. State	g. Zip Code
(508)826-1728 h. Phone Number	= -	Sengonid	Sa Yahoo.com
n. Phone Number	i. Fax Number	j. Email Addless	
a. First Name	A COTTON 109 S	b. Last Name SLOUGH D.D HARUKA	O MA OHSI
	A COTTON, 109 E	b. Last Name SLOUGH RD., HARVKY	D, MA OHSI
c. Organization	A COTTON, 109 E		D, MA OHSI
c. Organization 93 Ararat Street d. Street Address Worcester	A COTTON, 109 E		01606
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town		SLOUGH RD., HARVA	•
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town)	SLOUGH RD., HARVAY	01606
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town		SLOUGH RD., HARVAY	01606 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town A 78-456-8650 h. Phone Number	i. Fax Number	SLOUGH RD., HARVAY	01606 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town 78-456-8650 h. Phone Number	i. Fax Number	SLOUGH RD., HARVAY	01606 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town A 78-456-8680 h. Phone Number Representative (if a	i. Fax Number	MA f. State Cotton-Camil Email address	01606 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a	i. Fax Number	MA f. State Cotton-Camil Email address Keenan	01606 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town A 78-456-8680 h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, In c. Company	i. Fax Number	MA f. State Cotton-Camil Email address Keenan	01606 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, In c. Company PO Box 107	i. Fax Number	MA f. State Cotton-Camil Email address Keenan	01606 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, Inc. Company PO Box 107 d. Street Address	i. Fax Number	MA f. State Cotton-Camil Email address Keenan b. Last Name	01606 g. Zip Code yaverizon, net
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, Inc. Company PO Box 107 d. Street Address Paxton	i. Fax Number	MA f. State Cotton-Camily Email address Keenan b. Last Name	01606 g. Zip Code ya veri zon, net
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, Inc. Company PO Box 107 d. Street Address Paxton e. City/Town	i. Fax Number	MA f. State Cotton-Camil j. Email address Keenan b. Last Name	01606 g. Zip Code yaveri Zon, ne. † 01612 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, In c. Company PO Box 107 d. Street Address Paxton e. City/Town (508)753-7999 x4	i. Fax Number (508)795-0939	MA f. State Coffon-Gamily Email address Keenan b. Last Name MA f. State ckeenan@qeicivil.com	01606 g. Zip Code yaveri Zon, ne. † 01612 g. Zip Code
c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, Inc. Company PO Box 107 d. Street Address Paxton e. City/Town	i. Fax Number	MA f. State Cotton-Camil j. Email address Keenan b. Last Name	01606 g. Zip Code yaveri Zon, ne. † 01612 g. Zip Code
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c. Organization 93 Ararat Street d. Street Address Worcester e. City/Town h. Phone Number Representative (if a Christopher a. First Name Quinn Engineering, Inc. Company PO Box 107 d. Street Address Paxton e. City/Town (508)753-7999 x4 h. Phone Number	i. Fax Number (1908): 10. (508)795-0939 10. i. Fax Number (1908)795-0939 10. (1908)795-0939	MA f. State Keenan b. Last Name MA f. State keenan b. Last Name MA f. State ckeenan@qeicivil.com j. Email address	01606 g. Zip Code yaveri Zon, net 01612 g. Zip Code



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Α.	General Information (continued)					
6.	General Project Description: Construction of a single family home with associated site work, grading, utilities, driveway, landscaping, etc.					
7a.	Project Type Checklist: (Limited Project Types se	e Section A. 7b.)				
	1. Single Family Home	2. Residential Subdivision				
	3. Commercial/Industrial	4. Dock/Pier				
	5. Utilities	6. Coastal engineering Structure				
	7. Agriculture (e.g., cranberries, forestry)	8. Transportation				
	9. Dother					
7b.	Restoration Limited Project) subject to 310 CMR 1	s any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?				
		ited project applies to this project. (See 310 CMR nplete list and description of limited project types)				
	2. Limited Project Type					
	If the proposed activity is eligible to be treated as CMR10.24(8), 310 CMR 10.53(4)), complete and Project Checklist and Signed Certification.	an Ecological Restoration Limited Project (310 attach Appendix A: Ecological Restoration Limited				
8.	Property recorded at the Registry of Deeds for:					
	Worcester					
	a. County	b. Certificate # (if registered land)				
	4289, 4371 c. Book	440, 577 d. Page Number				
B.	Buffer Zone & Resource Area Imp					
	•	, , , , , , , , , , , , , , , , , , , ,				
1.	Buffer Zone Only – Check if the project is local Vegetated Wetland, Inland Bank, or Coastal F					
2.	Inland Resource Areas (see 310 CMR 10.54-Coastal Resource Areas).					
	Check all that apply below. Attach parrative and a	ny supporting documentation describing how the				

project will meet all performance standards for each of the resource areas altered, including

standards requiring consideration of alternative project design or location.



narrative

area was

delineated.

the resource

Massachusetts Department of Environmental Protection

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3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Proposed Replacement (if any) Resource Area Size of Proposed Alteration a. 🔲 Bank 1. linear feet 2. linear feet For all projects **Bordering Vegetated** affecting other Wetland 1. square feet 2. square feet Resource Areas, please attach a c. 🗌 Land Under 2. square feet 1. square feet explaining how Waterbodies and Waterways 3. cubic yards dredged Resource Area Size of Proposed Alteration Proposed Replacement (if any) d. 🗌 Bordering Land 2. square feet 1. square feet Subject to Flooding 3. cubic feet of flood storage lost 4. cubic feet replaced е. П Isolated Land Subject to Flooding 1. square feet 3. cubic feet replaced 2. cubic feet of flood storage lost f. 🗌 Riverfront Area 1. Name of Waterway (if available) 2. Width of Riverfront Area (check one): 25 ft. - Designated Densely Developed Areas only ☐ 100 ft. - New agricultural projects only 200 ft. - All other projects 3. Total area of Riverfront Area on the site of the proposed project: square feet 4. Proposed alteration of the Riverfront Area: 0 c. square feet between 100 ft. and 200 ft. a. total square feet b. square feet within 100 ft. 5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ■ No. ■ Yes □ No 6. Was the lot where the activity is proposed created prior to August 1, 1996?



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resou	urce Area	Size of Proposed	d Alteration	Proposed Replacement (if any)
a. 🗌	Designated Port Areas	Indicate size ur	nder Land Unde	er the Ocean, below
b. 🗌	Land Under the Ocean	1. square feet		
		2. cubic yards dredge	ed	
с. 🗌	Barrier Beach	Indicate size und	ler Coastal Bea	aches and/or Coastal Dunes below
d. 🔲	Coastal Beaches	1. square feet		2. cubic yards beach nourishment
е. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment
		Size of Proposed	l Alteration	Proposed Replacement (if any)
f g	Coastal Banks Rocky Intertidal	1. linear feet		
_	Shores	1. square feet		
h. Salt Marshes i. Land Under Salt Ponds		1. square feet		2. sq ft restoration, rehab., creation
		1. square feet		
j. 🗌	Land Containing Shellfish	cubic yards dredge square feet	d	
k. 🗌	Fish Runs	Indicate size unde	er Coastal Banl and Land Unde	ks, inland Bank, Land Under the er Waterbodies and Waterways,
ь П	Land Subject to	1. cubic yards dredge	d	
If the pi	Coastal Storm Flowage storation/Enhancement roject is for the purpose of	1. square feet restoring or enhance	sing a wetland r	resource area in addition to the
square amount	rootage that has been ente	ered in Section B.2.	b or B.3.h abov	/e, please enter the additional
_	e feet of BVW nject Involves Stream Cross		b. square feet of S	alt Marsh
a. numbe	r of new stream crossings		b. number of replac	cement stream crossings

4.

5.



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M	assachusetts Wetlands Protection Act M.	.G.L. c. 131, §40	Document Transaction Number		
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C	. Other Applicable Standards and	d Requirements	;		
	This is a proposal for an Ecological Restoration to the complete Appendix A: Ecological Restoration 10.11).	ation Limited Project. on Notice of Intent –	Skip Section C and Required Actions (310 CMR		
St	reamlined Massachusetts Endangered Sp	ecies Act/Wetlands	Protection Act Review		
1.	Is any portion of the proposed project located in the most recent Estimated Habitat Map of State Natural Heritage and Endangered Species Prog Massachusetts Natural Heritage Atlas or go to http://www.mass.gov/dfwele/dfw/nhesp/regulato	-Listed Rare Wetland \ gram (NHESP)? To vie	Wildlife published by the w habitat maps, see the		
	a. Yes No If yes, include proof o				
	current online viewer b. Date of map Natural Heritage and Division of Fisheries 1 Rabbit Hill Road Westborough, MA 0		^o rogram		
	If yes, the project is also subject to Massachuse CMR 10.18). To qualify for a streamlined, 30-da complete Section C.1.C, and include requested complete Section C.1.d, if applicable. If MESA s by completing Section 1 of this form, the NHESE up to 90 days to review (unless noted exception)	y, MESA/Wetlands Promaterials with this Not supplemental information will require a separat	otection Act review, please ice of Intent (NOI); OR on is not included with the NOI, the MESA filing which may take		
	1c. Submit Supplemental Information for Endang	gered Species Review	*		
	1. Percentage/acreage of property to b	e altered:			
	(a) within wetland Resource Area	percentage/acreage			
	(b) outside Resource Area	percentage/acreage			
	2. Assessor's Map or right-of-way plan	of site			
2.	wetlands jurisdiction, showing existing and propo	Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **			
	 (a) Project description (including description puffer zone) 	ption of impacts outsid	e of wetland resource area &		

(b) Photographs representative of the site

^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/dfwele/dfw/nhesp/nhesp.htm, regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

^{**} MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process. wpaform3.doc • rev. 11/24/2014 Page 5 of 9



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C. Other Applicable Standards and Requirements (cont'd)

	(c) L		g ree (ree information availat ov/dfwele/dfw/nhesp/regulato		/mesa/mesa fee	e schedule.htm).
	Make o		le to "Commonwealth of Mas			
	Projects	s altering 10 c	or more acres of land, also sub	mit:		
	(d)	Vegetation	cover type map of site			
	(e)	Project pla	ns showing Priority & Estima	ated Habita	t boundaries	
	(f) OF	R Check One	e of the Following			
	1. 🗌	Attach app http://www the NOI mu	exempt from MESA review. licant letter indicating which mass.gov/dfwele/dfw/nhesp ust still be sent to NHESP if 10.37 and 10.59.)	/regulatory	review/mesa/n	nesa exemptions.htm.
	2. 🗌	Separate M	ESA review ongoing.	a. NHESP	Tracking #	b. Date submitted to NHESF
	3. 🗌	Include cor	MESA review completed. by of NHESP "no Take" dete n approved plan.	rmination o	or valid Conserv	ation & Management
3.	For coastal		ly, is any portion of the propo	osed projec	ct located below	the mean high water
	a. Not a	applicable –	project is in inland resource	area only		
	b. 🗌 Yes	☐ No	If yes, include proof of mail	ing or hand	d delivery of NO	I to either:
			South Shore - Cohasset to Rh Island, and the Cape & Island		North Shore - Hul	I to New Hampshire:
			Division of Marine Fisheries - Southeast Marine Fisheries S Attn: Environmental Reviewer 1213 Purchase Street – 3rd F New Bedford, MA 02740-669	tation I	Division of Marine North Shore Offic Attn: Environment 30 Emerson Aven Gloucester, MA 0	e al Reviewer uue

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

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C. Other Applicable Standards and Requirements (cont'd)

4.	Is any p	ortion (of the pr	oposed project within an Area of Critical Environmental Concern (ACEC)?
	a. 🗌 Y	es 🔳	No No	If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). Note: electronic filers click on Website.
	b. ACEC			
5.				oposed project within an area designated as an Outstanding Resource Water n the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
	a. 🔲 Y	es 🔳	No	
6.				e subject to a Wetlands Restriction Order under the Inland Wetlands c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
	a. 🔲 Y	es 🔳	No	
7.	Is this p	roject s	subject to	provisions of the MassDEP Stormwater Management Standards?
	а. 🗌			copy of the Stormwater Report as required by the Stormwater Management
	1.		plying fo	per 310 CMR 10.05(6)(k)-(q) and check if: or Low Impact Development (LID) site design credits (as described in water Management Handbook Vol. 2, Chapter 3)
	2.] A	portion c	of the site constitutes redevelopment
	3.] Pr	oprietary	BMPs are included in the Stormwater Management System.
	b. 🔳	No. Ch	neck why	the project is exempt:
	1.] Sir	ngle-fam	ily house
	2.] En	nergency	y road repair
	3. or	_		dential Subdivision (less than or equal to 4 single-family houses or less than units in multi-family housing project) with no discharge to Critical Areas.
D.	Addi	tiona	al Info	rmation
				n Ecological Restoration Limited Project. Skip Section D and complete Restoration Notice of Intent – Minimum Required Documents (310 CMR
	Applica	nts mus	st include	e the following with this Notice of Intent (NOI). See instructions for details.
				the document transaction number (provided on your receipt page) for any of on you submit to the Department.
	1. 🗌	sufficie	ent inforr	map of the area (along with a narrative description, if necessary) containing nation for the Conservation Commission and the Department to locate the site is may omit this item.)
		a Bord	lering Ve	ng the location of proposed activities (including activities proposed to serve as egetated Wetland [BVW] replication area or other mitigating measure) relative ies of each affected resource area.



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D. Add	litional Information (con	t'd)
3. 🗌	Identify the method for BVW and Field Data Form(s), Determination and attach documentation of	other resource area boundary delineations (MassDEP BVW on of Applicability, Order of Resource Area Delineation, etc.), the methodology.
4.	List the titles and dates for all pla	ns and other materials submitted with this NOI.
De	efinitive Site Plan, 99 Ararat Street	
	Plan Title	
	ıinn Engineering, Inc.	Kevin Quinn, PE
	Prepared By	c. Signed and Stamped by
	bruary 20, 2024 Final Revision Date	1"=10'
a. r	-inal Revision Date	e. Scale
f. <i>F</i>	Additional Plan or Document Title	g. Date
5. 🗌	If there is more than one property listed on this form.	y owner, please attach a list of these property owners not
6.	Attach proof of mailing for Natura	al Heritage and Endangered Species Program, if needed.
7. 🗌	Attach proof of mailing for Massa	chusetts Division of Marine Fisheries, if needed.
8.	Attach NOI Wetland Fee Transm	ittal Form
9. 🗌	Attach Stormwater Report, if nee	ded.
E. Fees		
1.		e assessed for projects of any city, town, county, or district recognized Indian tribe housing authority, municipal housing Bay Transportation Authority.
Applica	ants must submit the following infor	mation (in addition to pages 1 and 2 of the NOI Wetland

Fee Transmittal Form) to confirm fee payment:



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F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

5. Signature of Representative (if any)

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Bureau of Resource Protection - Wetlands

A Applicant Information

NOI Wetland Fee Transmittal Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





When ms							
uter, tab	1.	Location of Project:					
your		99 Ararat Street		Worcester			
not		a. Street Address		b. City/Town			
rn		3077		\$262.50			
		c. Check number		d. Fee amount			
	2.	Applicant Mailing Addre	SS:				
		Athanasios		Engonidis			
		a. First Name		b. Last Name			
		c. Organization					
		133 Fisher Road					
		d. Mailing Address					
		Holden		MA	01520		
		e. City/Town		f. State	g. Zip Code		
		(508)826-1728					
		h. Phone Number	i. Fax Number	j. Email Address			
	3.	Property Owner (if differ	ent):				
Robe	~+	Thomas D and Alma Mae		Purcell			
	. ,	a. First Name		b. Last Name			
		S/O EXTONDA COTTON 109 SLOUGH RD., HARWARD, MA 01451					
		c. Organization					
		93 Ararat Street					
		d. Mailing Address					
		Worcester		MA	01606		
		e. City/Town		f. State	g. Zip Code		
		978-456-8600		Cottonfamily@Ve	evizon net_		
		h. Phone Number	i. Fax Number	j. Email Address			

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. *Please see Instructions before filling out worksheet.*

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



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В.	Fees (continued)							
	Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee				
	Cat 2, Single Family House	1	\$500.00	\$500.00				
		Step 5/T	otal Project Fee:	\$500.00				
		Step 6/Fee Payments:		\$500.00				
		Total	Project Fee:	a. Total Fee from Step 5				
		State share	e of filing Fee:	\$237.50 b. 1/2 Total Fee less \$12.50 \$262.50				
		City/Town shar	e of filling Fee:	c. 1/2 Total Fee plus \$12.50				

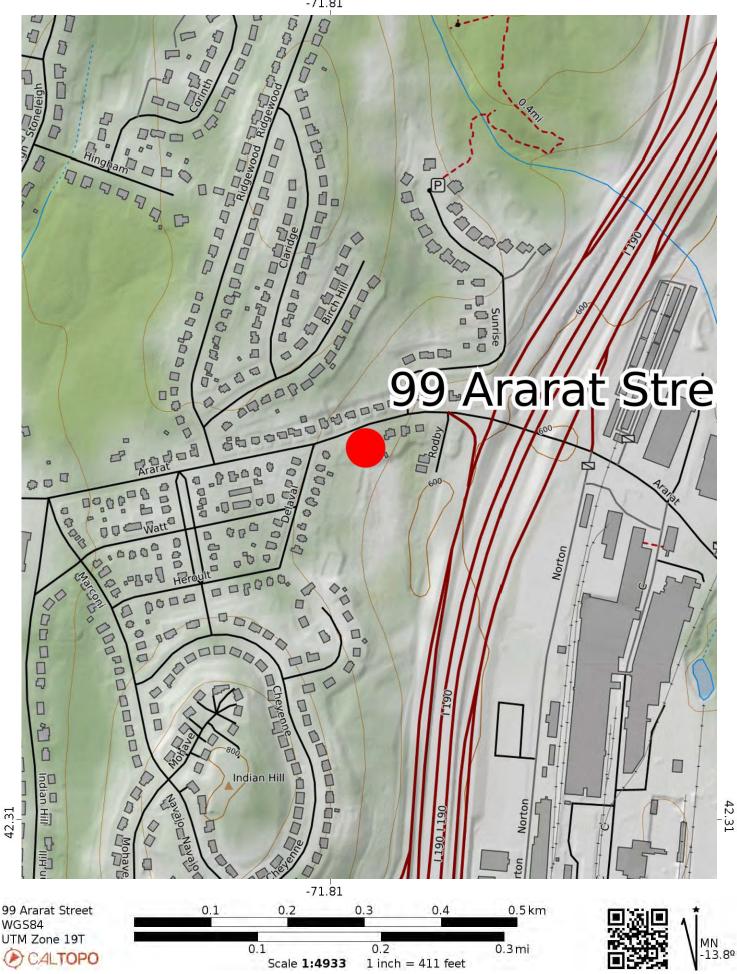
C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) To the Conservation Commission: Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



QUINN ENGINEERING, INC.

P.O. Box 107
Paxton, Massachusetts 01612
(508)753-7999
Fax:(508)795-0939

March 1, 2024

City of Worcester Planning Board 455 Main Street

Worcester, Massachusetts 01608

Re: 99 Ararat Street, Worcester Definitive Site Plan Approval Project Impact Statement

To the Board:

The Applicant is proposing to construct a single family home at 99 Ararat Street in the RS-7 Zoning District. Potential site impacts related to the project include the following:

- Air quality
- Surface water quality
- Ground water quality
- Flooding
- Erosion and sedimentation
- Increases in impervious area
- Hazardous material storage
- Heat islands
- Wind conditions
- Noise
- Lighting

Evaluation of mitigating features to reduce site impacts to the project surroundings include the following:

- 1. Air Quality General Notes on the Site Plan set require the contractor to control airborne dust during construction and to temporarily or permanently stabilize all soils to prevent airborne pollution from the wind.
- 2. Surface Water Quality Stormwater derived from the clean roof is collected, detained, recharged, and discharged in accordance with Massachusetts

- Department of Environmental Protection requirements through the use of underground drywells. No illicit discharges have been identified or are proposed for this project. Single family homes are exempt from stormwater management requirements under MA Dep Stormwater Policy.
- 3. Ground Water Quality Again, stormwater derived from the clean roof is collected, detained, recharged, and discharged in accordance with Massachusetts Department of Environmental Protection requirements through the use of underground stormwater chambers. No illicit discharges have been identified or are proposed as part of this project. Single family homes are exempt from stormwater management requirements under MA Dep Stormwater Policy.
- 4. Flooding Stormwater derived from the clean roof is collected, detained, recharged, and discharged in accordance with Massachusetts Department of Environmental Protection requirements through the use of underground drywells. Single family homes are exempt from stormwater management requirements under MA Dep Stormwater Policy. The drywells temporarily store excess stormwater and release it back to the onsite wetland system and to the ground via infiltration.
- 5. Erosion and Sedimentation Efforts to control erosion and sedimentation are included for the construction phase and for ongoing use of the development. Straw wattle and silt fence are proposed during construction to control runoff. Please refer to the Site Plan set for locations of stormwater controls and Construction Period Pollution Prevention notes. Remaining site areas are stabilized with vegetation or asphalt to prevent erosion.
- 6. Increases in Impervious Area Such increases have the potential to increase stormwater runoff resulting in erosion and/or sedimentation and increase surface temperatures. Stormwater derived from the clean roof is collected, detained, recharged, and discharged in accordance with Massachusetts Department of Environmental Protection requirements through the use of underground drywells. Single family homes are exempt from stormwater management requirements under MA Dep Stormwater Policy. The installation of shade trees in and around paved areas to provide shade and reduce the effect of heat islands.
- 7. Hazardous Materials Hazardous materials in quantities greater than found in normal households is not anticipated. No hazardous materials may be stored without proper protection.
- 8. Heat Islands Heat islands result from the replacement of vegetation with hard surfaces that collect heat like parking lots and roofs. Lighter colored building materials limit the heating effect from proposed structures. Shade trees and turf limit site heating effects.
- 9. Wind Conditions The limited height of the proposed building should provide a small amount of wind shielding without affecting wind patterns in the area. Areas

- beyond site development contain some tall trees that will continue to provide a wind block and shade to the proposed project.
- 10. Noise After the completion of construction, significant noise from this project is not anticipated. During construction, noise related to ongoing construction activities is anticipated, but can be limited to normal business hours to reduce impact to the neighborhood.
- 11. Lighting Currently the only lighting in the vicinity of the project are streetlights located on existing utility poles. No new overhead lighting is proposed. Small wall mounted fixtures at building entries will be lit for safety as required under building code. No pole mounted fixtures are proposed.

Potential community impacts that exist from site development include the following:

- Building shadowing, glare, design features, conformance to zoning
- Parking traffic volumes and patterns, environmental concerns, aesthetics
- Historic historical site, property, or district, archeological resources

Mitigating measures for neighborhood benefit include:

- 1. The proposed building is located in accordance with City of Worcester building setbacks for the RS-7Zoning District 20' front setback, 8' rear setback, 20' side setback. The height of the building is proposed at less than 27', under the limit of 35' for the RG-5 district. Building materials selected for this project are not reflective in nature other than proposed windows and doors. The location, height, and materials of the proposed building will not present significant issues of glare or shadowing offsite. Please refer to the Architectural Plans in the Site Plan set. Stormwater runoff from roofs is collected and recharged on site via underground drywells. Proposed shade trees are proposed along Ararat Street. A permit from the Planning Board is required to ensure compliance with jurisdictional requirements of the City for construction on a property with grades that exceed 15%.
- 2. Proposed parking for two cars is located in the garage. Shade trees are proposed to limit the effect of heat islands.
- Historic The site is not located within a historic district or identified as an
 historic property. No site features exist that would identify archeological or
 unique significance.

If you have any questions in these regards, or require any further information for this project, please contact our office.

Sincerely,

QUINN ENGINEERING

Christopher Keenan Project Engineer