

Arlington Conservation Commission

Date: Thursday, March 5, 2020

Time: 7:30 PM

Location: Town Hall Annex, Second Floor Conference Room

Agenda

- 1. Administrative
 - a. Review and vote on the offset contributed to the Department of Planning and Community Development (DPCD) budget from the Commission's permit fees account which contributes directly to the Conservation Agent's salary.
- 2. Updates
 - a. Project updates.
 - Committee and working group updates, including but not limited to: Water Bodies, Open Space, Reservoir, Spy Pond, Community Preservation, Zoning Bylaw, Public Lands Maintenance, Land Stewards.
 - c. MACC Annual Conference update.
- 3. Discussion
 - a. Discussion to determine and prioritize actionable goals for the general goals the Commission set for 2020 during its 1/2/2020 meeting.
- 4. Hearings

Notice of Intent

93 Sunnyside Ave (continued from 02/27/2020) MassDEP File #unassigned

This project proposes an addition in the backyard and expanding a mudroom in the front yard. The back addition is within the 200-ft Riverfront Area and 100-year floodplain. The back addition is proposed to be built on footings, above the floodplain. The front addition is within the 200-ft Riverfront Area. The project also proposes installing a deck and porous paver driveway in the back yard. As mitigation, this project proposes a native vegetated buffer and three dry wells that capture all roof runoff.

Notice of Intent

47 Spy Pond Lane Lot 1/A MassDEP File #unassigned

The Superseding Order of Conditions issued by the Massachusetts Department of Environmental Protection on 12/29/2016 for Lot 1/A expired on 12/29/2019. This project site is therefore currently only permitted under the local Arlington Wetlands Protection Bylaw, and not the Massachusetts Wetlands Protection Act. This Notice of Intent is filed under the Wetlands Protection Act only. This project proposes to demolish an existing house and construct a new house.

Notice of Intent

47 Spy Pond Lane Lot 2/B MassDEP File #unassigned

The Superseding Order of Conditions issued by the Massachusetts Department of Environmental Protection on 12/29/2016 for Lot 2/B expired on 12/29/2019. This project site is therefore currently only permitted under the local Arlington Wetlands Protection Bylaw, and not the Massachusetts Wetlands Protection Act. This Notice of Intent is filed under the Wetlands Protection Act only. This project proposes to remove an existing impervious driveway and construct a house.



Vote on Conservation Offset

Summary:

Review and vote on the offset contributed to the Department of Planning and Community Development (DPCD) budget from the Commission's permit fees account which contributes directly to the Conservation Agent's salary.



Project Updates

Summary: Project updates.



Committee and working group updates, including but not limited to: Water Bodies, Open Space, Reservoir, Spy Pond, Community Preservation, Zoning Bylaw, Public Lands Maintenance, Land Stewards

Summary:

Committee and working group updates, including but not limited to: Water Bodies, Open Space, Reservoir, Spy Pond, Community Preservation, Zoning Bylaw, Public Lands Maintenance, Land Stewards.



MACC Annual Conference

Summary: MACC Annual Conference update.



Prioritize Commission Goals Established at the 1/2/2020 Meeting

Summary:

Discussion to determine and prioritize actionable goals for the general goals the Commission set for 2020 during its 1/2/2020 meeting.



Notice of Intent

Summary: 93 Sunnyside Ave (continued from 02/27/2020) MassDEP File #unassigned

This project proposes an addition in the backyard and expanding a mudroom in the front yard. The back addition is within the 200-ft Riverfront Area and 100-year floodplain. The back addition is proposed to be built on footings, above the floodplain. The front addition is within the 200-ft Riverfront Area. The project also proposes installing a deck and porous paver driveway in the back yard. As mitigation, this project proposes a native vegetated buffer and three dry wells that capture all roof runoff.

ATTACHMENTS:

	Туре	File Name			
D	Notice of Intent	93_Sunnyside_Ave_NOI_redacted.pdf			

- Notice of Intent 93_Sunnyside_Revised_Plans.pdf
- D Notice of Intent 93_Sunnyside_Revised_Narrative.pdf

Description

- 93 Sunnyside NOI Packet
- 93 Sunnyside Revised Plans
- 93 Sunnyside Revised Narrative



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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.

Project Location	(Note: electronic filers wi	Il click on button to locate pro	ject site):
93 Sunnyside Avenu	e	Arlington	02474
a. Street Address		b. City/Town	c. Zip Code
Latitude and Lon	aitude:	42.410930	-71.133160
34-3	gittado.	d. Latitude	e. Longitude
f. Assessors Map/Pla	t Number	18 g. Parcel /Lot Number	
Applicant:		U U	
Lynne		Cooney	
a. First Name		b. Last Name	
c. Organization			
93 Sunnyside	Avenue		
d. Street Address			
Arlington		MA	02474
		f. State	g. Zip Code
h. Phone Number Property owner (Same as above. a. First Name	i. Fax Number required if different from a	j. Email Address applicant): Check if n b. Last Name	nore than one owner
Property owner (Same as above. a. First Name c. Organization		applicant): Check if n	nore than one owner
Property owner (Same as above. a. First Name		applicant): Check if n	nore than one owner
Property owner (Same as above. a. First Name c. Organization		applicant): Check if n	nore than one owner
Property owner (Same as above. a. First Name c. Organization d. Street Address		applicant): Check if n b. Last Name	
Property owner (Same as above. a. First Name c. Organization d. Street Address e. City/Town h. Phone Number	required if different from a	Applicant): Check if n b. Last Name f. State	
Property owner (Same as above. a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (i None	required if different from a	applicant): Check if n b. Last Name f. State j. Email address	
Property owner (i Same as above. a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (i	required if different from a	Applicant): Check if n b. Last Name f. State	
Property owner (Same as above. a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (i None	required if different from a	applicant): Check if n b. Last Name f. State j. Email address	
Property owner (i Same as above. a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (i <u>None</u> a. First Name	required if different from a	applicant): Check if n b. Last Name f. State j. Email address	
Property owner (Same as above. a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (i None a. First Name c. Company	required if different from a	applicant): Check if n b. Last Name f. State j. Email address	

b. State Fee Paid

c. City/Town Fee Paid



Massachusetts Department of Environmental Protection Provided by MassDEP:

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number

City/Town

6. Coastal engineering Structure

8. Transportation

Massachusetts Wetlands Protection Act M.G.L. c. 131, §4	0
---	---

A. General Information (continued)

6. General Project Description:

see attached project narrative

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. I Single Family Home
 2. □ Residential Subdivision

 3. □ Commercial/Industrial
 4. □ Dock/Pier
- 5. 🗌 Utilities
- 7. Agriculture (e.g., cranberries, forestry)
- 9. 🗌 Other
- 7b. Is 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)?

1. 🗌 Yes	If yes, describe which limited project applies to this project. (See 310 CMR
	10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

South Middlesex		
a. County	b. Certificate # (if registered land)	
73753	38	
c. Book	d. Page Number	

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

- 1. Buffer Zone Only Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any 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.



Provided by MassDEP: **Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number

City/Town

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

	<u>Resour</u>	<u>ce Area</u>	Size of Proposed Alteration	Proposed Replacement (if any)
For all projects	a. 🗌	Bank	1. linear feet	2. linear feet
affecting other Resource Areas, please attach a	b. 🗌	Bordering Vegetated Wetland	1. square feet	2. square feet
narrative explaining how the resource	c. 🗌	Land Under Waterbodies and	1. square feet	2. square feet
area was delineated.		Waterways	3. cubic yards dredged	
	<u>Resour</u>	<u>ce Area</u>	Size of Proposed Alteration	Proposed Replacement (if any)
	d. 🗙	Bordering Land		
		Subject to Flooding	1. square feet	2. square feet
			4.28 Cubic Ft.	8.56 Cubic Ft.
	_		3. cubic feet of flood storage lost	4. cubic feet replaced
	e. 🔄	Isolated Land Subject to Flooding		
			1. square feet	
			2. cubic feet of flood storage lost	3. cubic feet replaced
			Alewife Brook	
	f. 🛛	Riverfront Area	1. Name of Waterway (if available) - spe	cify coastal or inland
	2.	_ 0	Densely Developed Areas only	
		100 ft New agricu	ultural projects only	
		200 ft All other pr	ojects	
	3.	Total area of Riverfront A	rea on the site of the proposed projec	t: <u>2983 sq ft.</u> square feet
	4.	Proposed alteration of the	e Riverfront Area:	
				increase in impervious surface
	a. 1	total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
	5.	Has an alternatives analy	vsis been done and is it attached to th	is NOI? 🕂 Yes 🗌 No
	6.	Was the lot where the act	tivity is proposed created prior to Aug	ust 1, 1996? 🛛 🛛 Yes 🗌 No
;	3. 🗌 Coa	astal Resource Areas: (S	ee 310 CMR 10.25-10.35)	
	Note:	for coastal riverfront area	s, please complete Section B.2.f. ab	ove.



Massachusetts Department of Environmental Protection Provided by MassDEP:

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number

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

City/Town

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		Resource Area		Size of Proposed	Alteration	Proposed Replacement (if any)		
transaction number		a. 🗌	Designated Port Areas	Indicate size ur	ider Land Under	the Ocean, below		
(provided on your receipt page) with all		b. 🗌	Land Under the Ocean	1. square feet				
supplementary information you submit to the				2. cubic yards dredge	ed			
Department.		c. 🗌	Barrier Beach	Indicate size und	ler Coastal Beac	hes and/or Coastal Dunes below		
		d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment		
		e. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment		
				Size of Proposed	d Alteration	Proposed Replacement (if any)		
		f. 🗌	Coastal Banks	1. linear feet				
		g. 🗌	Rocky Intertidal Shores	1. square feet				
		h. 🗌 i. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation		
			Land Under Salt Ponds	1. square feet				
				2. cubic yards dredge	ed			
		j. 🗌	Land Containing Shellfish	1. square feet				
		k. 🗌	Fish Runs			s, inland Bank, Land Under the rWaterbodies and Waterways,		
		_		1. cubic yards dredge	ed			
		I. 🗌	Land Subject to Coastal Storm Flowage	1. square feet				
	4.	If the p	footage that has been ente			esource area in addition to the e, please enter the additional		
		a. square	e feet of BVW		b. square feet of Sa	alt Marsh		
	5.	🗌 Pro	oject Involves Stream Cross	ings				
		a. numbe	er of new stream crossings	<u> </u>	b. number of replace	cement stream crossings		



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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

of NOI to:

C. Other Applicable Standards and Requirements

This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

 Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

Division of Fisheries and Wildlife

a. 🗌 Yes	X	No	If yes, include proof of mailing or hand delivery of
			Natural Heritage and Endangered Species Program

1 Rabbit Hill Road Westborough, MA 01581

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take*

c. Submit Supplemental Information for Endangered Species Review*

up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

- - (a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

- 2. C Assessor's Map or right-of-way plan of site
- 2. 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 of impacts outside of wetland resource area & buffer zone)
 - (b) D 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/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). 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.

 13 of 223

 wpaform3.doc • rev. 2/8/2018



Massachusetts Department of Environmental Protection Provided by MassDEP:

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number

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

City/Town

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

(c) MESA filing fee (fee information available at <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm</u>). Make check payable to "Commonwealth of Massachusetts - NHESP" and *mail to NHESP* at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
- 1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm;</u> the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2	Separate MESA review ongoing.		
2.	Separate MESA review origoing.	a NHESP Tracking #	b Date submitted to NHESE

- 3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
- 3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. 🔀 Not applicable – project is in inland resource area only	b. 🗌 🍾	Yes 🗌 No
---	--------	----------

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:	North Shore - Hull to New Hampshire border:
Division of Marine Fisheries -	Division of Marine Fisheries -
Southeast Marine Fisheries Station	North Shore Office
Atta: Environmental Reviewer	Atta: Environmental Poviowar

Attn: Environmental Reviewer 836 South Rodney French Blvd. New Bedford, MA 02744 Email: <u>DMF.EnvReview-South@state.ma.us</u> Division of Marine Fisheries -North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: <u>DMF.EnvReview-North@state.ma.us</u>

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.

		assachusetts Department of Environmental Protection	Provided by MassDEP:							
	Bureau of Resource Protection - Wetlands WPA Form 3 – Notice of Intent Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Document Transaction Number									
			City/Town							
	C.	Other Applicable Standards and Requirements	(cont'd)							
	4.	Is any portion of the proposed project within an Area of Critical Enviror	nmental Concern (ACEC)?							
Online Users: Include your document		a. Yes X No If yes, provide name of ACEC (see instruction Website for ACEC locations). Note: electronic								
transaction number		b. ACEC								
(provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an (ORW) as designated in the Massachusetts Surface Water Quality Sta								
supplementary information you		a. 🗌 Yes 🛛 No								
submit to the Department.	6.	Is any portion of the site subject to a Wetlands Restriction Order under Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction								
		a. 🗌 Yes 🛛 No								
	7.	Is this project subject to provisions of the MassDEP Stormwater Mana	gement Standards?							
		 a. Yes. Attach a copy of the Stormwater Report as required by th Standards per 310 CMR 10.05(6)(k)-(q) and check if: 1. Applying for Low Impact Development (LID) site design cr 	-							
		Stormwater Management Handbook Vol. 2, Chapter 3)							
		2. A portion of the site constitutes redevelopment								
		3. Proprietary BMPs are included in the Stormwater Manage	ment System.							
		b. X No. Check why the project is exempt:								
		1. A Single-family house								
		2. Emergency road repair								
		3. Small Residential Subdivision (less than or equal to 4 sing or equal to 4 units in multi-family housing project) with no dis								
	D.	Additional Information								
		This is a proposal for an Ecological Restoration Limited Project. Skip S Appendix A: Ecological Restoration Notice of Intent – Minimum Requir 10.12).								

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

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

D. Additional Information (cont'd)

- 3. 🗌 Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. X List the titles and dates for all plans and other materials submitted with this NOI.

	Topographic Plan of Land				
a. P	lan Title				
	Medford Survey Inc.	Richard J. Mead Jr.			
b. P	repared By	c. Signed and Stamped by			
	1.17.2020	1" = 20'			
d. F	inal Revision Date	e. Scale			
	See application packet.				
f. Ad	dditional Plan or Document Title	g. Date	_		
5.	If there is more than one property owner, please attach a list of these property owners not listed on this form.				
6. 🗌	Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.				
7. 🗌	Attach proof of mailing for Massachusetts	Division of Marine Fisheries, if needed.			

- 8. X Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

	February 10, 2020
2. Municipal Check Number	3. Check date
	February 10, 2020
4. State Check Number	5. Check date
Lynne	Cooney
6. Payor name on check: First Name	7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection Provided by MassDEP:

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number

City/Town

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.

Lynne Cooney	2/13/2020
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date
5. Signature of Representative (if any)	6. Date

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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands 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.

1.

2.

3.



A. Applicant Information

Location of Project:			
93 Sunnyside Avenue		Arlington, MA 02474	
		b. City/Town	
		\$42.50	
c. Check number		d. Fee amount	
Applicant Mailing Ac	ddress:		
Lynne		Cooney	
a. First Name		b. Last Name	
c. Organization			
93 Sunnyside Avenue	e		
d. Mailing Address			
Arlington		MA	02474
		f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email Address	
Property Owner (if c	different):		
Same as Above			
a. First Name		b. Last Name	
c. Organization			
d. Mailing Address			
e. City/Town		f. State	g. Zip Code
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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Work on Single Family House + Add	iton 1	\$110.00	\$110.00
	Step 5/To	otal Project Fee:	\$110.00
	Step 6/	Fee Payments:	
	Total	Project Fee:	\$110.00 a. Total Fee from Step 5
	State share	of filing Fee:	\$42.50 b. 1/2 Total Fee less \$ 12.50
	City/Town share	e of filling Fee:	\$67.50 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.)

NOI Application Project Narrative Lynne Cooney 93 Sunnyside Avenue, Arlington, MA 02474

General Project Description

Proposed interior renovations and two-story rear addition to existing 2 Bedroom, 1 Bathroom single family unit, which is part of an attached 2-family structure. Project includes kitchen and bedroom addition off rear (180 sq. ft.) and expansion of existing entry mudroom (from 17 sq. ft. to 46 sq. ft.). New elevated deck also proposed constructed off of the new rear addition (145 sq. ft.). Existing rear concrete slab and knee walls to be reused at deck structure.

Back elevated addition will increase impervious surface area by 180 sq. ft. and front addition would increase impervious surface area by 29 sq. ft. for a total increase in impervious area of 209 sq. ft. This increase in impervious area is within the 200-foot riverfront area and the 180 sq. ft. expansion is within the floodplain. Back elevated addition will be built above the floodplain with footings not foundation. The new footings will take up 4.28 cubic feet of floodplain. 8.56 cubic ft. of soil will be removed from the floodplain as compensatory flood storage.

Proposed driveway (284 sq. ft.) of permeable pavers (Unilock Eco-Priora materials packet included with proposal packet) will be installed on 1" bedding sand over 8" minimum of aggregate gravel base to reduce the amount of stormwater runoff.

400 sq ft. of vegetation buffer at rear of property will replace existing grass yard and act as mitigation for this project in the 200-foot riverfront area. Three new drywells will also be installed as stormwater mitigation. Drywells will capture all roof square footage including current roof and new back & front addition.

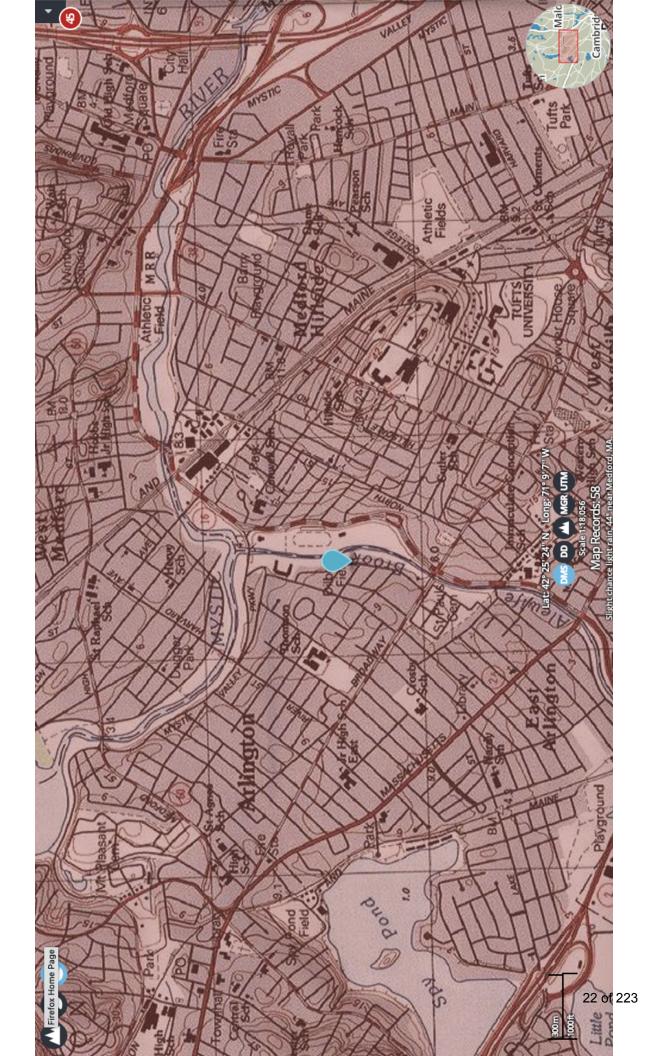
<u>Climate Change Resilience (in accordance with Section 31 of the Arlington Regulations for</u> <u>Wetlands Protection).</u>

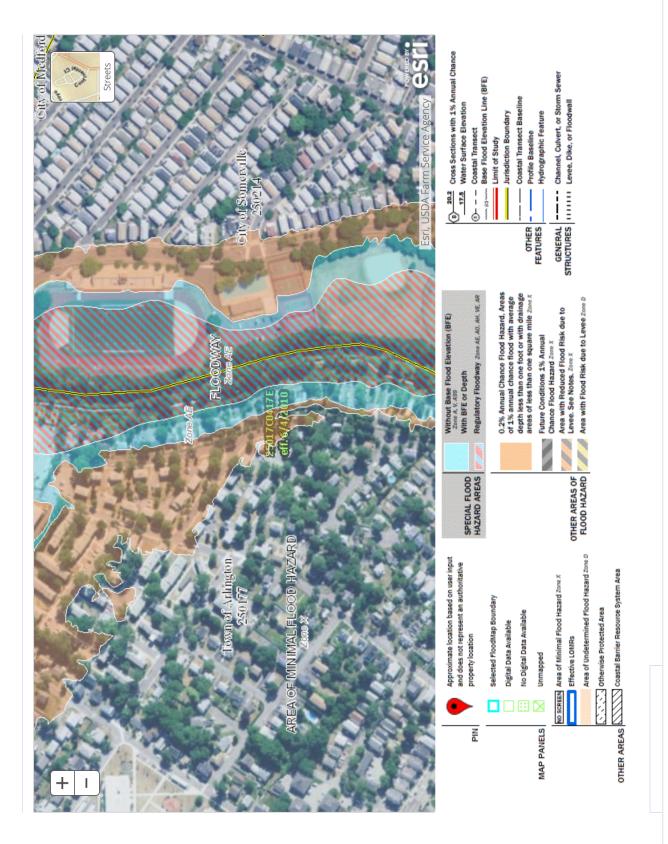
1. This project limits storm and flood damage by building above the floodplain, with minimal floodplain encroachment. The back addition will be built on footings, not on a foundation. The total floodplain encroachment is 4.28 cubic feet, and will be mitigated by creating 8.56 cubic feet of compensatory flood storage. Additionally, this project proposes adding three new drywells to the site, reducing stormwater runoff. Finally, this project proposes to create a 400 square foot vegetated buffer zone with native plantings close to the 100-foot wetlands buffer. The native plantings will mitigate stormwater runoff better than the existing grass yard and create better quality wildlife habitat.

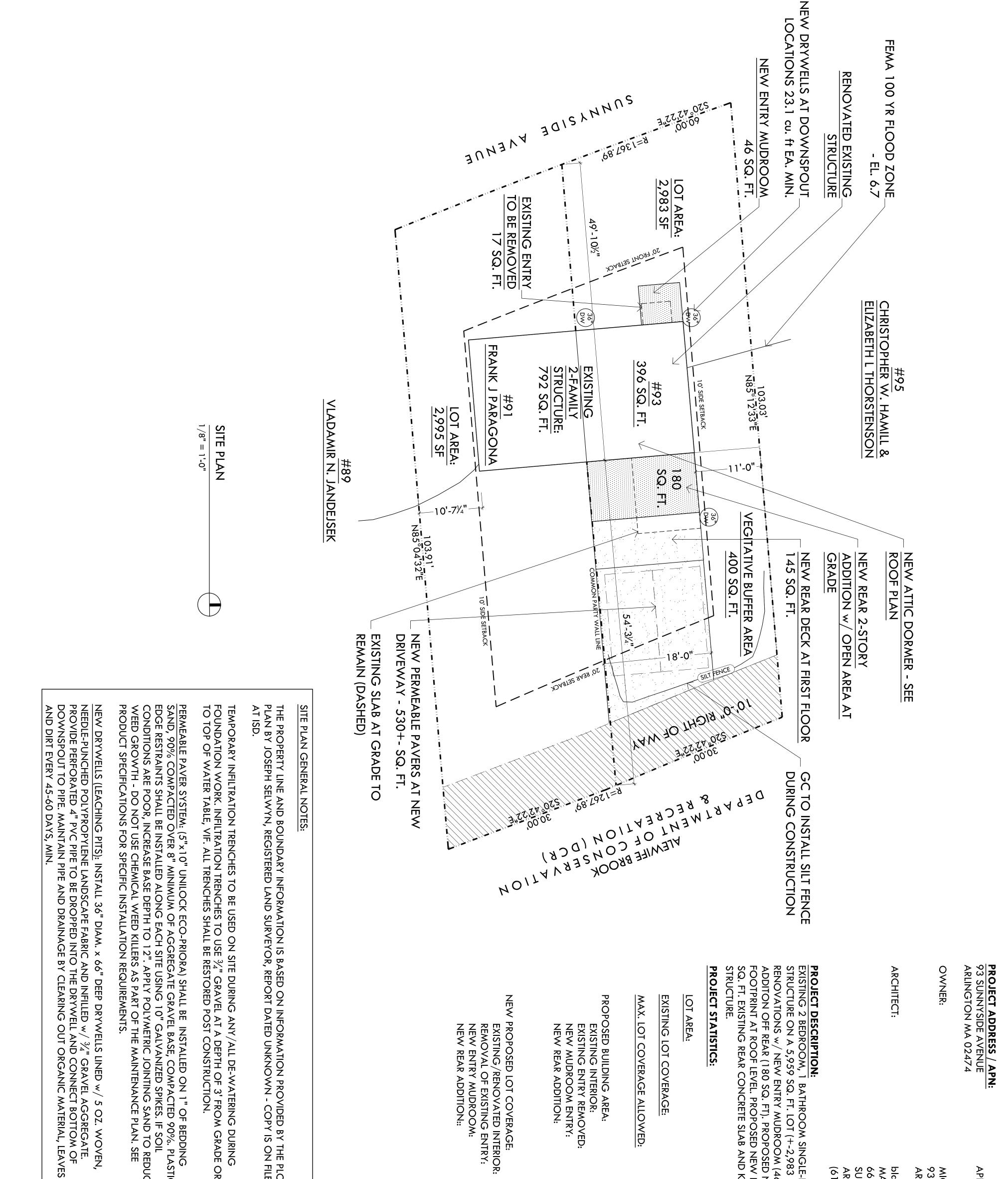
2. This project proposes to mitigate stormwater runoff and enhance stormwater quality through three interventions: The addition of three new drywells, a new 400 square foot vegetated buffer area, and a new permeable paver driveway (described above). These interventions will control stormwater runoff and infiltrate runoff such that nutrients and pollutants will be removed prior to entering Alewife Brook.

3. The 400 square foot vegetated buffer will include native plants. The water table on this site is high, so plants will be selected such that they can tolerate both dry and wet conditions. Pollinator plants will also be planted to encourage enhanced wildlife habitat. This project will include the removal of non-native plants from overgrown areas (without the use of chemicals or toxic sprays) and planting native vegetation buffer along the border of riverfront area on back of property. Supplemental landscaping to front of house to include pruning existing shrubs (not more than 20% per the Commission's regulations) and adding native shrubbery and vegetation.

3. This project minimizes the impacts of climate change on the structure by building the addition and deck above the floodplain, improving stormwater management, and increasing vegetative cover onsite.







APN:	34-3-18	- COONEY
MICH 93 SU ARLIN	Michael Greenblatt + lynne cooney 93 Sunnyside Avenue Arlington Ma 02474	RESIDENCE 93 SUNNYSIDE AVENUE ARLINGTON, MA 02474
blanc MA L 661 / SUITE ARLIN (617)	blanchardA+D, LLC MA LIC#: 30597 661 MASSACHUSETTS AVE. SUITE 20 ARLINGTON MA 02476 (617) 519-5434	
ym Single-Fa f (+-2,983 Sg droom (46 S Roposed Ney Sed New Des Lab And Kne	im single-family unit part of a 2-family f (+-2,983 Sq. Ft per unit). Proposed interior droom (46 Sq. Ft.) and Kitchen/m. Bedroom Roposed New Attic Dormer Withing Existing Sed New Deck at New Rear Addition - 145 Lab and Kneewalls to be reused at Deck	
	2,983 SQ. FT. 396 SQ. FT. + 17 SQ. FT. = 413 SQ. FT. (13.8%)	b I a n c h a r d A+D architecture + design
VED:	1,044 SQ. FT. (35% PER R2) +447 SQ. FT. (+15% PER A5.7.5,B,2)	b <i>I a n c h a r d A</i> + <i>D</i> 661 MASSACHUSETTS AVENUE SUITE 20 ARLINGTON, MA 02476 tblanchard@gmail.com TELEPHONE 617-519-5434
Y: VED:	398 + 409 = 807 GROSS SQ. FT. -17 GROSS SQ. FT. 46 GROSS SQ. FT. 360 GROSS SQ. FT. (+9.0%) 1,196 SQ. FT. (+389 GROSS SQ. FT AREA)	NOT FOR CONSTRUCTION
AGE: INTERIOR: FENTRY: A:	396 SQ. FT. -17 SQ. FT. 46 SQ. FT. 180 SQ. FT.	
	534 SQ. FT. (+209 SQ. FT, +7.5% LOT COVERAGE)	
	LEGEND	
by the plot / IS on file	NEW DRIVEWAY DRIPWAY	No Date Revision / Isue Project Number Scale 1908 1*= 8-0"
DURING GRADE OR	× NEW CONTOUR	th th blanchardA+D, LLC (Architect) expressly reserves the Common Law Copyright and other Property Rights in these Drawings. These Drawings are the property of blanchardA+D 11 C and shall not be reproduced in any manner nor shall
BEDDING 0%. PLASTIC SOIL	ASSESSORS'S MAP 034.0 BLOCK 003, LOT 0018.0 93 SUNNYSIDE AVENUE, ARLINGTON MA 02474	be assigned for the use to any third party without ob in permission from blanchardA+D, LLC (Architect). 20 blanchardA+D, LLC / Timothy L Blanchard, AIA
d to reduce An. see	ZONING: R-2, TWO FAMILY RESIDENTIAL	PROPOSED
WOVEN,	SETBACK REQUIRED: FRONT: 20' SIDE: 10'	
FOM OF AL, LEAVES	Rear: 20 Party Wall: 0' Height: 35', 2.5 Stories Maximum	

GREENBLAT



Q

4

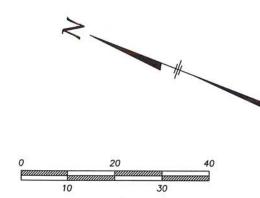
õ

16

A1.0

Ζ

24 of 223



SCALE: 1'' = 20'

CURRENT OWNER: JEFFREY STERN

TITLE REFERENCE: BK 26089 PG 364

PLAN REFERENCE: 1049 OF 1948

THIS PLAN WAS PREPARED WITHOUT A FULL TITLE EXAMINATION AND IS NOT A CERTIFICATION TO THE TITLE OF THE LANDS SHOWN. THE OWNERSHIP OF ABUTTING PROPERTIES IS ACCORDING TO ASSESSORS RECORDS. THIS PLAN MAY OR MAY NOT SHOW ALL ENCUMBRANCES WHETHER EXPRESSED, IMPLIED OR PRESCRIPTIVE.

SURVEYOR'S CERTIFICATION:

TO: TIMOTHY BLANCHARD

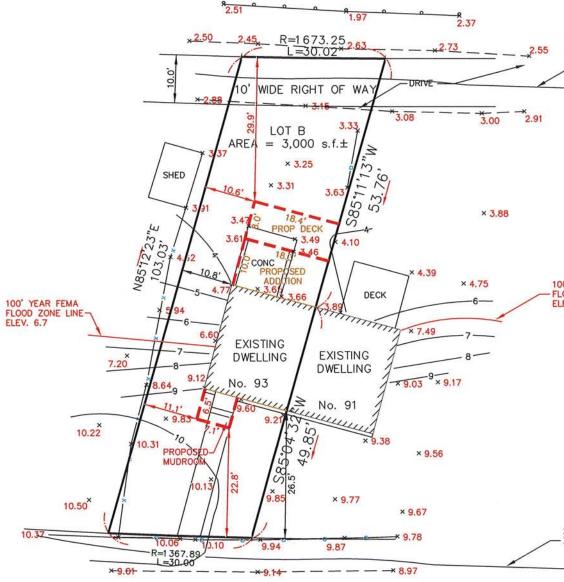
I CERTIFY THAT THIS PLAN AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE GENERALLY ACCEPTABLE PRACTICES OF LAND SURVEYORS IN THE COMMONWEALTH OF MASSACHUSETTS FOR A PLAN AND SURVEY OF THIS TYPE. THIS CERTIFICATION IS MADE ONLY TO THE ABOVE NAMED INDIVIDUAL(S) AND IS NULL AND VOID UPON ANY FURTHER CONVEYANCE OF THIS PLAN.

THE FIELD WORK WAS COMPLETED ON: JANUARY 15, 2020 DATE OF PLAN: JANUARY 17, 2020

01/17/2020 DATE:

RICHARD J. MEDE, JR. P.L.S.





SUNNYSIDE AVENUE

25 of 223

]
2.91	TOPOGRAPHIC PLAN OF LAND 93 SUNNYSIDE AVE ARLINGTON, MA. (MIDDLESEX COUNTY)
100' YEAR FEMA FLOOD ZONE LINE ELEV. 6.7	PREPARED BY: PREPARED BY: PREPARED
200' OUTER RIPARIAN ZONE LINE	HARD FILE No. 20706
BENCHMARK: DRILL SET ON CURB. ELEV = 10.07 (NAVD-88)	ARED FOR: TIMOTHY BLANCHARD
10.07	PREPARED FOR: TIMOTH) DRAWN C





B

VIEW FROM FRONT (WEST) N.T.S.





 $-(\mathbf{A})$

VIEW FROM REAR ALONG EASEMENT/ROAD (EAST) N.T.S.

VIEW FROM REAR (EAST)

-(D)



REAR EXISTING KNEEWALL & SLAB OFF LOWER LEVEL N.T.S.



VIEW OF REAR AT EXISTING CONCRETE PAD N.T.S.

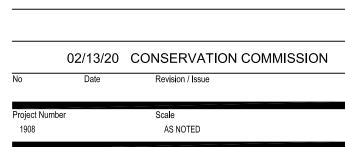
A1.1

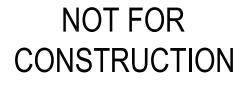
. .

SITE PHOTOGRAPHS

© 2020 blanchardA+D, LLC / Timothy L Blanchard, AIA

blanchardA+D, LLC (Architect) expressly reserves the Common Law Copyrights and other Property Rights in these Drawings. These Drawings are the property of blanchardA+D, LLC and shall not be reproduced in any manner nor shall they be assigned for the use to any third party without obtaining the expressed written permission from blanchardA+D, LLC (Architect).





b I a n c h a r dA+D 661 MASSACHUSETTS AVENUE SUITE 20 ARLINGTON, MA 02476 tblanchard@gmail.com TELEPHONE 617-519-5434

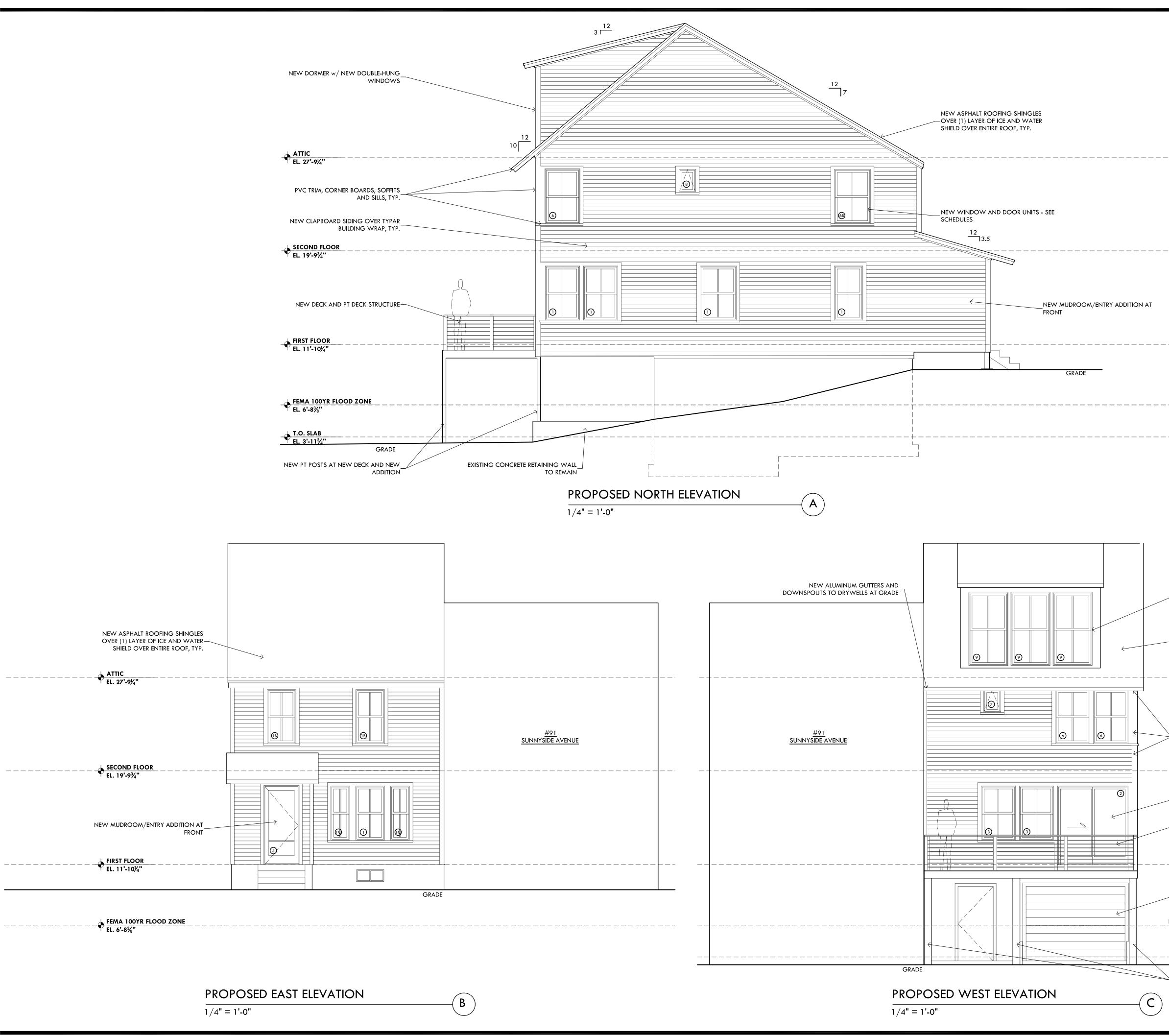


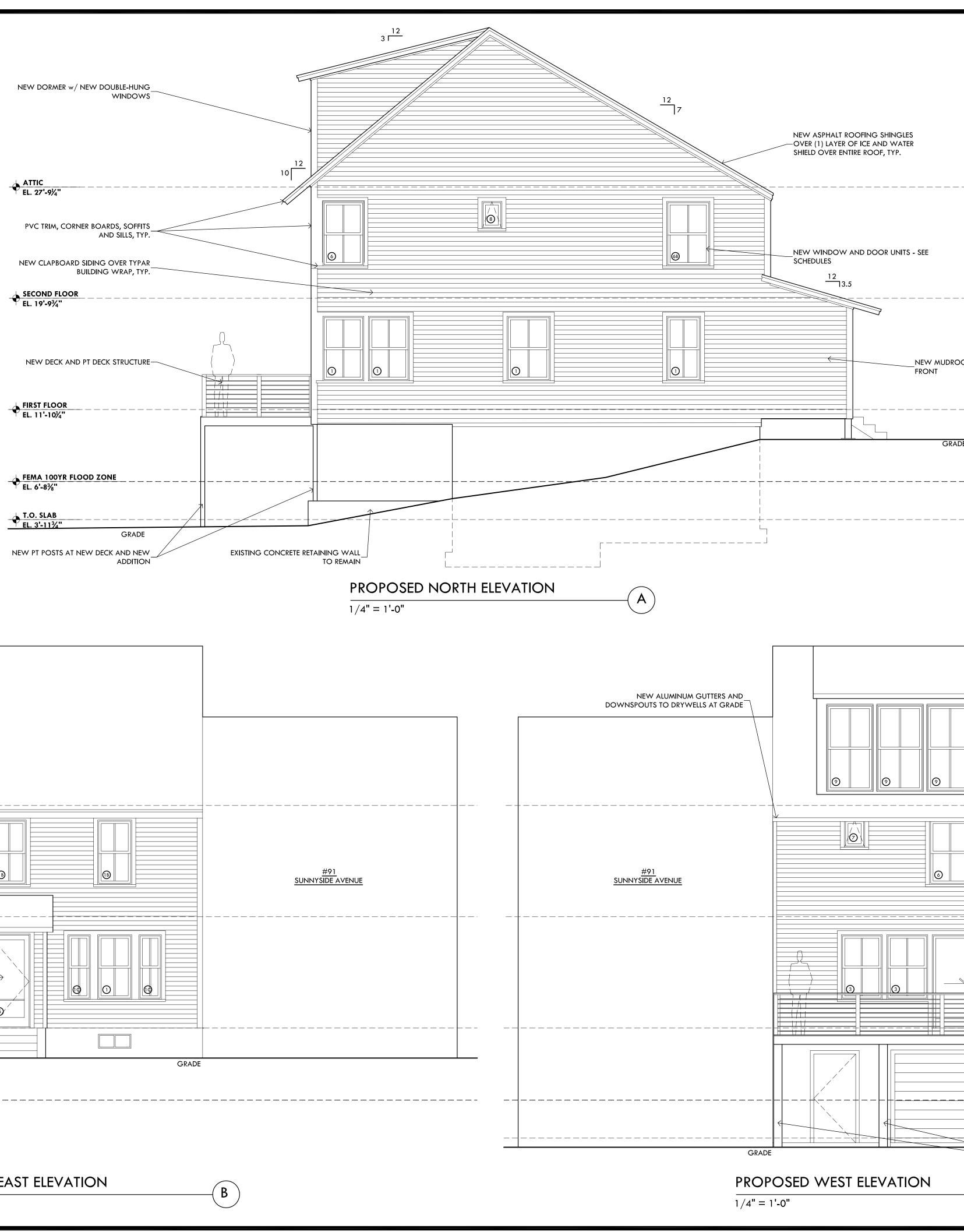


• •

E

27 of 223



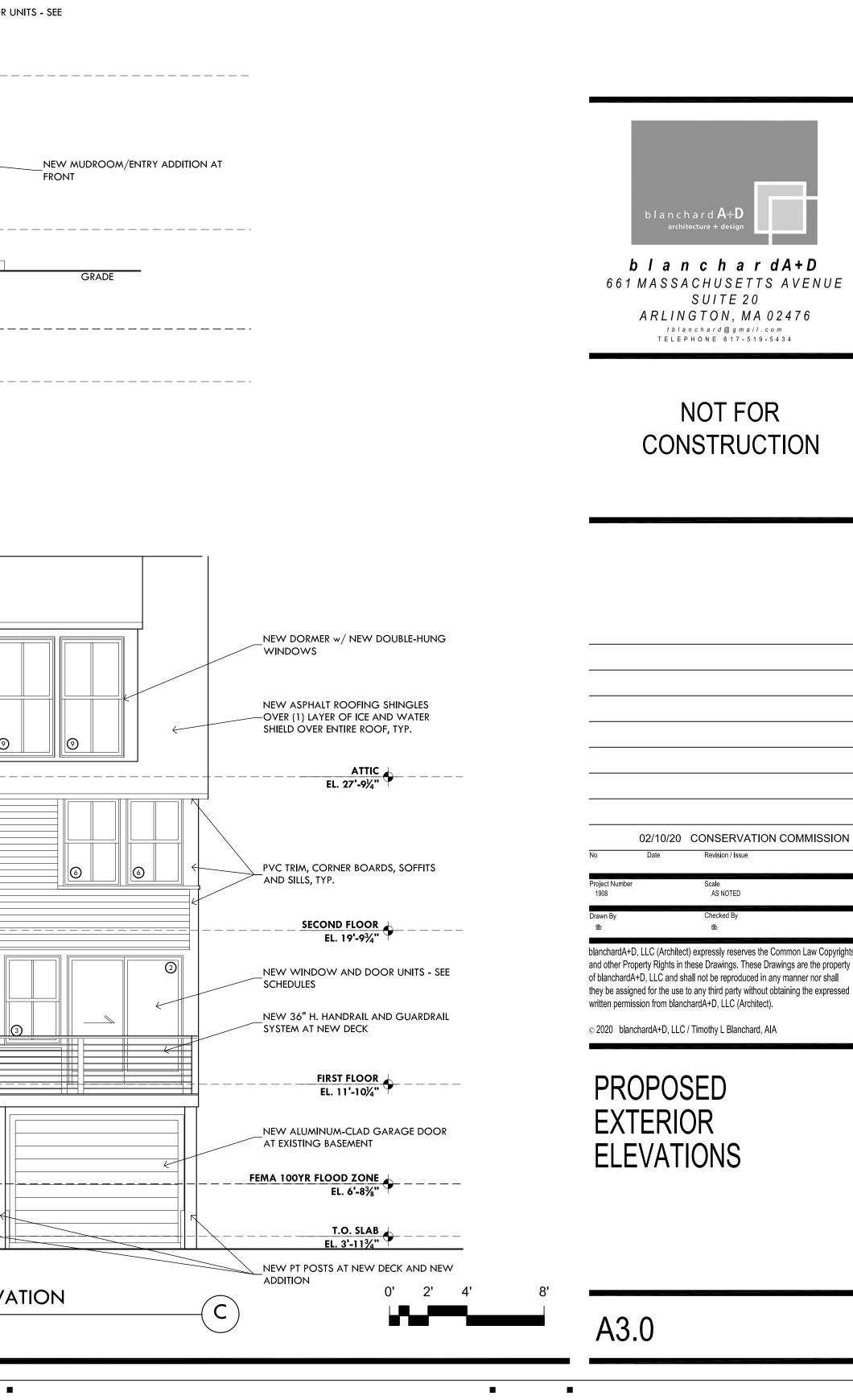


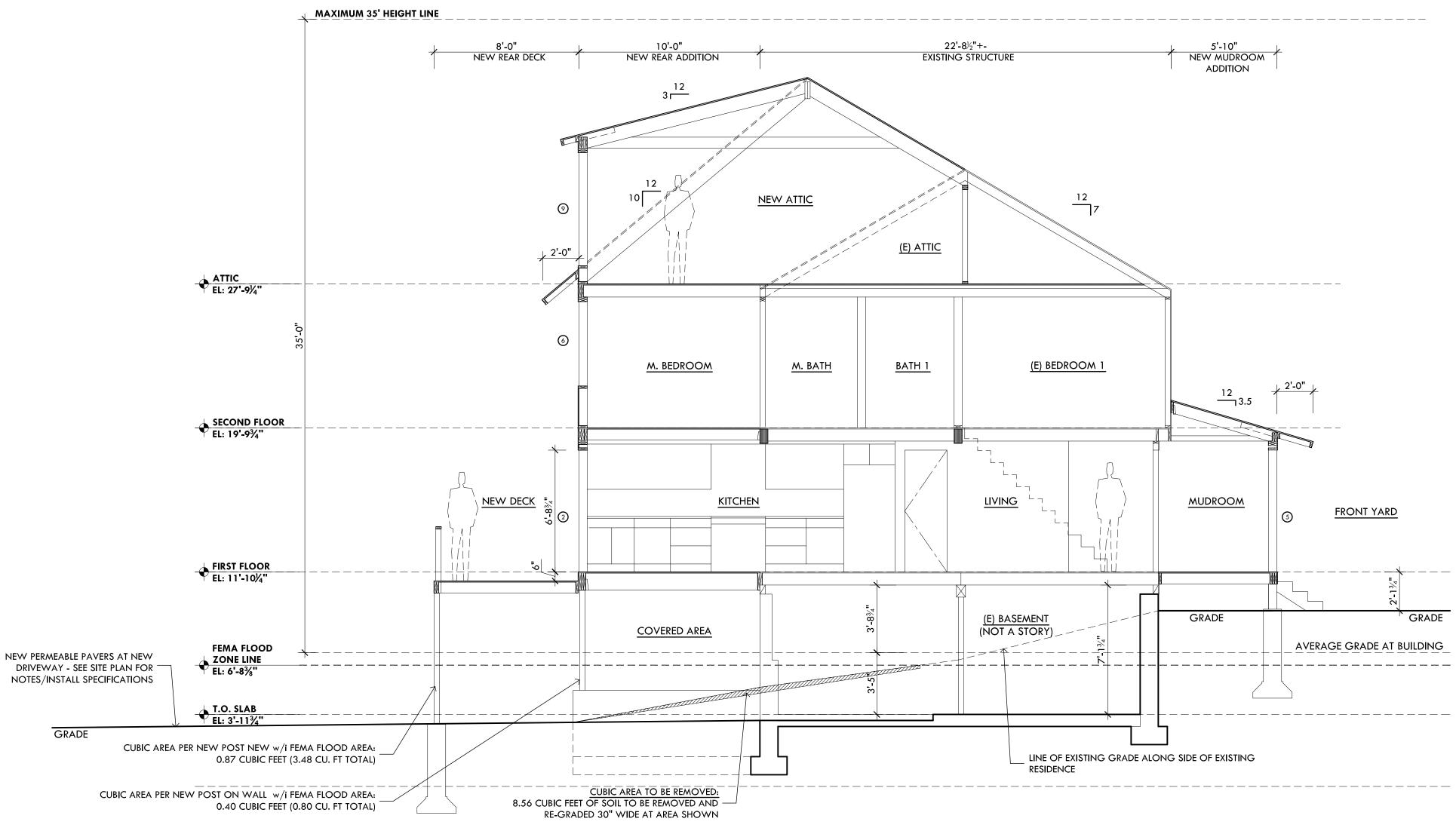


GREENBLATT - COONEY RESIDENCE

8 8

93 SUNNYSIDE AVENUE ARLINGTON, MA 02474







1/4" = 1'-0"

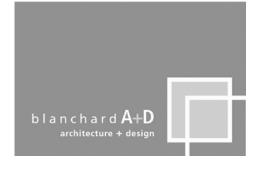
EAST-WEST SECTION AT KITCHEN/LIVING

(**A**

GREENBLATT - COONEY RESIDENCE

8 8

93 SUNNYSIDE AVENUE ARLINGTON, MA 02474



b I a n c h a r dA+D 661 MASSACHUSETTS AVENUE SUITE 20 ARLINGTON, MA 02476 tblanchard@gmail.com TELEPHONE 617-519-5434

NOT FOR CONSTRUCTION

02/13/20 CONSERVATION COMMISSION Date Revision / Issue AS NOTED tb

blanchardA+D, LLC (Architect) expressly reserves the Common Law Copyrights and other Property Rights in these Drawings. These Drawings are the property of blanchardA+D, LLC and shall not be reproduced in any manner nor shall they be assigned for the use to any third party without obtaining the expressed written permission from blanchardA+D, LLC (Architect).

© 2020 blanchardA+D, LLC / Timothy L Blanchard, AIA

BUILDING SECTIONS

0' 2' 4'

A4.0

FRONT YARD

GRADE

AVERAGE GRADE AT BUILDING

ECO-PRIORA™

Architectural design with engineered performance.

Designed with special spacer bars, the resulting 7mm gap is filled with a clear, fine stone chip that allows rapid penetration of rainwater into the sub-base and subsoil.



COFFEE CREEK STANDARD FINISH SPECIAL ORDER



STANDARD FINISH



SIERRA STANDARD FINISH



COFFEE CREEK TUMBLED FINISH SPECIAL ORDER



UMBRIANO FINISH



GRANITE BLEND TUMBLED FINISH SPECIAL ORDER



SIERRA TUMBLED SPECIAL ORDER



AUTUMN SUNSET UMBRIANO FINISH SPECIAL ORDER



SPECIAL ORDER



WINTER MARVEL SPECIAL ORDER

10"X10"

24 CM X 24 CM X 8 CM

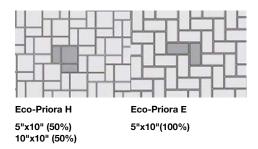
9.5" X 9.5" X 3.125"

5"X10" 24 CM X 12 CM X 8 CM 9.5" X 4.75" X 3.125"

5"X5' 12 CM X 12 CM X 8 CM 4.75" X 4.75" X 3.125"

	Unit	s	6qFt Per		Per Bundle	Soldier	LnFt Per	Sailor	LnFt Per	Uni	ts Per	Lbs	Per
Stones & Bundling	Thickness	Bundle	Layer	Stone	Layers	SqFt	Bundle	SqFt	Bundle	SqFt	Bundle	Layers	Bundle
10"x10"	3-1/8" (8cm)	86.6	12.37	0.619	7	0.786	110.2	0.79	110.24	1.62	140	443	3099
5"x10"	3-1/8" (8cm)	74.59	10.66	0.304	7	0.773	96.4	0.39	192.89	3.28	245	381	2669
5"x5"	3-1/8" (8cm)	74.59	10.66	0.152	7	0.387	192.9	0.39	192.89	6.57	490	381	2669

Sold in full bundles only and shipped on refundable skids. Eco-Priora is available in Series 3000 and Umbriano finishes. Minimum quantities apply on custom orders. Textured surfaces require a buffer between the plate compactor and the paver surface to prevent scuffing. Specially graded aggregates must be used for the joints. Contact Unilock for more information.



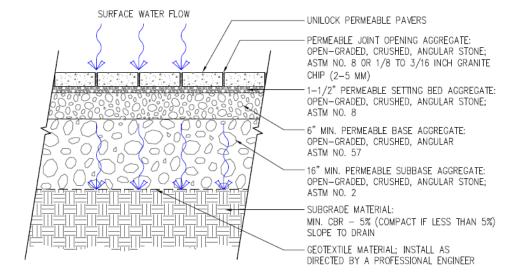
1 of 1



32-14-13.19

Unilock Permeable

For any additional information or assistance with this spec please contact your Unilock Representative.



BOSTON BUFFALO CHICAGO CLEVELAND DETROIT NEW YORK TORONTO

30 of 223

*** Delete all text in RED after modifying the text in **BLUE**. All **BLUE** text requires modification. ***

FOREWORD

These specifications have been prepared for the general guidance of architects, landscape architects, engineers, contractor and superintendents associated with the construction of interlocking concrete pavements. Consult with a licensed architect, landscape architect or engineer to determine the suitability of the design, confirm site conditions and monitor the installation in critical applications. Unilock is not responsible for the information in this specification meeting local or national building codes. The Architect, Landscape Architect or Engineer of Record is responsible selecting products that meet any and all building code requirements to gain occupancy permit and updating this specification as necessary.

INTRODUCTION

Unilock[®] permeable pavers are manufactured in a variety of shapes and colors for residential, commercial, municipal and industrial applications. They offer design professionals several engineered pavement systems that are efficient, durable, economical and aesthetically attractive.

Unilock[®] permeable pavers are manufactured to tight dimensional tolerances. This, in combination with their permeable and interlocking capabilities, allows the surface to be completely porous with a high resistance to compressive loads and lateral forces.

SECTION 32 14 13.19

PERMEABLE CONCRETE PAVER MATERIALS

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes the following:
 - 1. Permeable Concrete Pavers
 - 2. Permeable Joint Opening Aggregate
 - 3. Permeable Joint Aggregate Type 1
 - 4. Permeable Joint Aggregate Type 2
 - 5. Permeable Setting Bed Aggregate (Open-graded)
 - 6. Permeable Base Aggregate (Open-graded)
 - 7. Permeable Subbase Aggregate (Open-graded)

1.02 REFERENCES

- Note: Design street, industrial, port and airport pavement thicknesses in consultation with a qualified civil engineer, in accordance with established flexible pavement design procedures, LOCKPAVE[®] software, and in accordance with Interlocking Concrete Pavement Institute Technical Bulletins. Sample construction detail drawings are available from Unilock[®]. This specification may require modifications.
- A. ASTM International, latest edition:
 - 1. C 29 Bulk Density and Voids in Aggregate Materials.
 - 2. C 33, Standard Specification for Concrete Aggregates.
 - 3. C 136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - 4. C 140, Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
 - 5. D 448, Standard Classification for Sizes of Aggregate for Road and Bridge Construction.
 - 6. C 936, Standard Specification for Solid Concrete Interlocking Paving Units.
 - 7. C 979, Standard Specification for Pigments for Integrally Colored Concrete.



- 8. D 698 Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 5.5 lb (24.4 N) Rammer and 12 in. (305 mm) drop.
- 9. D 1557 Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 10-lb (44.5 N) Rammer and 18 in. (457 mm) drop.
- 10. C1645 Standard Test Method for Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units
- 11. D 4254, Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density.
- 12. D 4632, Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
- 13. D 4533, Standard Test Method for Index Trapezoidal Tearing Strength of Geotextiles
- 14. D 4833, Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
- 15. D 4491, Standard Test Method for Water Permeability of Geotextiles by Permittivity
- 16. D 4751, Standard Test Method for Determining Apparent Opening Size of a Geotextile

Delete the **BLUE** text above if no geotextile is being utilized.

Note: In order to determine the latest version of the listed specifications and standards, please consult the ASTM web page (www.astm.com)

- B. U.S. Green Building Council Leadership in Energy and Environmental Design (LEED)
 - 1. Building Design + Construction, latest edition
- 1.03 SUBMITTALS
 - A. Permeable Concrete Pavers:
 - 1. Samples for verification: Three representative full-size samples of each paver type, thickness, color and finish that indicate the range of color variation and texture expected upon project completion.
 - 2. Accepted samples become the standard of acceptance for the product produced.
 - 3. Test results from an independent testing laboratory for compliance of concrete pavers with ASTM C 936.
 - 4. Manufacturer's catalog product data, installation instructions, and material safety data sheets for the safe handling of the specified materials and products.
 - B. Permeable Joint Opening Aggregate:
 - 1. Provide three representative one pound samples in containers of aggregate materials that indicate the range of color variation and texture expected upon project completion.
 - 2. Accepted samples become the standard of acceptance for the product produced.
 - 3. Test results from an independent testing laboratory for sieve analysis, including washed gradations per ASTM C 136.
 - 4. Test results for void space percentage per ASTM C 29.
 - C. Permeable Setting Bed, Base and Subbase Aggregate:
 - 1. Test results from an independent testing laboratory for compliance with ASTM D 448 No. 8, No. 57 and No. 2.
 - 2. Test results from an independent testing laboratory for sieve analysis, including washed gradations per ASTM C 136.
 - 3. Test results for void space percentage per ASTM C 29.
 - D. Paving Installation Contractor:
 - 1. Job references from a minimum of three projects similar in size and complexity. Provide Owner/Client/General Contractor names, postal address, phone, fax, and email address.
 - E. LEED (required only for LEED projects, delete otherwise)
 - 1. LEED Materials and Resources Credit 4, Recycled Materials: Submit letter from manufacturer certifying the products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content.



- a. Include statement indicating costs for each product having recycled content.
- 2. LEED Materials and Resources Credit 5, Regional Materials: Submit letter from manufacturer certifying products having been extracted, harvested, or recovered, as well as manufactured within 500 miles of the project site.
 - a. Include a statement indicating the percentage by weight which is extracted, harvested, or recovered within 500 miles of the project site.
- 3. LEED Sustainable Sites Credit 7.1, Non-roof: Submit letter from manufacturer certifying the solar reflectance index (SRI) of the paver is 29 or greater.

1.04 QUALITY ASSURANCE

- A. Utilize a Manufacturer having at least ten years of experience manufacturing interlocking concrete pavers on projects of similar nature or project size.
- B: Source Limitations:
 - 1. Obtain Permeable Concrete Pavers from one source location with the resources to provide products of consistent quality in appearance and physical properties.
 - 2. Obtain Permeable Joint Opening Aggregate from one source with the resources to provide materials and products of consistent quality in appearance and physical properties.
- C. Paving Contractor Qualifications:
 - 1. Utilize an installer having successfully completed concrete paver installation similar in design, material, and extent indicated on this project.
- D. Mockups:
 - 1. Install a 5 ft x 5 ft paver area.
 - 2. Use this area to determine joint sizes, lines, laying pattern(s) and levelness. This area will serve as the standard by which the workmanship will be judged.
 - 3. Subject to acceptance by owner, mock-up may be retained as part of finished work.
 - 4. If mock-up is not retained, haul offsite and dispose legally.

1.05 DELIVERY, STORAGE & HANDLING

- A. In accordance with Conditions of the Contract and Division 1 Product Requirement Section. (Modify this to match the general conditions of the specific project)
- B. Deliver Permeable Concrete Pavers in manufacturer's original, unopened and undamaged container packaging with identification labels intact.
 - 1. Coordinate delivery and paving schedule to minimize interference with normal use of streets and sidewalks adjacent to paver installation.
 - 2. Deliver concrete pavers to the site in steel banded, plastic banded or plastic wrapped packaging capable of transfer by forklift or clamp lift.
 - 3. Unload pavers at job site in such a manner that no damage occurs to the product or adjacent surfaces.
- C. Store and protect materials free from mud, dirt and other foreign materials.

1.06 PROJECT/SITE CONDITIONS

- A. Environmental Requirements:
 - 1. Install permeable pavers only on unfrozen permeable setting bed aggregate materials.
 - 2. Install permeable setting bed only on unfrozen permeable base and subbase aggregates.
 - 3. Install permeable base or subbase aggregates only over unfrozen subgrade.

1.07 PERMEABLE CONCRETE PAVER OVERAGE AND ATTIC STOCK

- A. Provide a minimum of 5% additional material for overage to be used during construction.
- B. Furnish 100 square feet of each product and size used to owner for maintenance and repair. Furnish Permeable Concrete Pavers from the same production run as installed materials.
- C. Manufacture to supply maintenance and reinstatement manuals for Permeable Concrete Paver units.



- 1.08 LEED REQUIREMENTS (required only for LEED projects, delete otherwise)
 - A. Add any specific requirements necessary for achieving desired credits.

PART 2 PRODUCTS

2.01 PERMEABLE CONCRETE PAVERS

2.

- A. Basis-of-Design Product: The permeable concrete paver shapes are based on:
 - 1. Unilock: (Select product or products being used)
 - a. Eco-Optiloc
 - b. Eco-Priora
 - c. Eco-Promenade
 - d. Eco-Line
 - e. DuraFlow
 - f. Town Hall
 - g. (other Unilock products)
 - As manufactured by:
 - Unilock (Add location) Address
 - City, State and Zip

Contact: (insert Unilock representative name and phone number) or your local Territory Manager

- 3. The specified products establish minimum requirements that substitutions must meet to be considered acceptable.
 - a. To obtain acceptance of unspecified products, submit written requests at least 7 days before the Bid Date.
- Note: Unless required by the owner, an "or equal" line is not necessary when using a basis-of-design specification with the above information is listed and outline in Division 1, Product Substitution Procedures.
- Or choose number 3 below and delete above number 3.
- 3. Substitutions: No substitutions permitted.
- B. Product requirements:

1

- Permeable Paver Type 1: Unilock Eco-Optiloc (or other Unilock product name)
 - a. Finish: (Select finish type from below and insert here. Finish type will affect product pricing).
 - 1. Standard this is not a face mix finish.
 - 2. Smooth (Premier) this is a face mix finish.
 - 3. Brushed (IL Campo) this is a face mix finish.
 - 4. Exposed Granite (Series 3000) this is a face mix finish.
 - 5. Granite appearance (Umbriano) this is a face mix finish.
 - 6. Tile appearance (Senzo) this is a face mix finish.
 - 7. Add other Unilock options.
 - b. Color: Insert product color
 - c. Edge: Chamfer 3 mm bevel
 - d. Size: Manufacture the sizes indicated with a maximum tolerance of plus or minus 1/16 inch for length and width. Maximum height tolerance of plus or minus 1/8 inch.
 - 1. L-shape
- Note: Imperial dimensions are nominal equivalents to the metric dimensions.
- 2. Permeable Paver Type 2: Unilock Eco-Priora (or other Unilock product name)
 - a. Finish: (Select finish type from below and insert here. Finish type will affect product pricing).
 - 1. Standard this is not a face mix finish.
 - 2. Smooth (Premier) this is a face mix finish.
 - 3. Brushed (IL Campo) this is a face mix finish.



- 4. Exposed Granite (Series 3000) this is a face mix finish.
- 5. Granite appearance (Umbriano) this is a face mix finish.
- 6. Tile appearance (Senzo) this is a face mix finish.
- 7. Add other Unilock options.
- b. Color: Insert product color
- c. Edge: Chamfer 3 mm rolled
- d. Size: Manufacture the sizes indicated with a maximum tolerance of plus or minus 1/16 inch for length and width. Maximum height tolerance of plus or minus 1/8 inch.
 - 1. 120 mm (5 in) x 120 mm (5 in) x 80 mm (3-1/8 in) thick
 - 2. 120 mm (5 in) x 240 mm (10 in) x 80 mm (3-1/8 in) thick
 - 3. 240 mm (10 in) x 240 mm (10 in) x 80 mm (3-1/8 in) thick
- Note: Imperial dimensions are nominal equivalents to the metric dimensions.
- 3. Permeable Paver Type 3: Town Hall (or other Unilock product name)
 - a. Finish: molded Streetpaver
 - b. Color: Insert product color(s): Burgundy Red, Burnt Clay, Old Oak
 - c. Edge: molded
 - d. Size: Manufacture the sizes indicated with a maximum tolerance of plus or minus 1/16 inch for length and width. Maximum height tolerance of plus or minus 1/8 inch..
 - 1. 10 cm (4 in) x 25 cm (9-3/4 in) x 7 cm (2-3/4 in) thick
- 4. (Insert additional Permeable Paver Types here as necessary or delete this line)
- C. Provide pavers meeting the minimum material and physical properties set forth in ASTM C 936, Standard Specification for Interlocking Concrete Paving Units. Efflorescence is not a cause for rejection.
 - 1. Average compressive strength 8000 psi (55MPa) with no individual unit under 7,200 psi (50 MPa).
 - 2. Average absorption of 5% with no unit greater than 7% when tested according to ASTM C 140.
 - 3. Conforming to ASTM C 1645 when tested for freeze-thaw requirements.
 - 4. Height tolerances +/- 3.2 mm (1/8 in).

Note: Efflorescence is a whitish powder-like deposit that sometimes appears on concrete products. Calcium hydroxide and other water-soluble materials form or are present during the hydration of Portland cement. Pore water becomes saturated with these materials, and diffuses to the surface of the concrete. When this water evaporates, the soluble materials remain as a whitish deposit on the concrete surface. The calcium hydroxide is converted to calcium carbonate during a reaction with carbon dioxide from the atmosphere. The calcium carbonate is difficult to remove with water. However, the efflorescence will wear off with time, and it is advisable to wait a few months before attempting to remove any efflorescence. Commercially available cleaners can be used, provided directions are carefully followed. Some cleaners contain acids that may alter the color of the pavers.

- D. Accept only pigments in concrete pavers conforming to ASTM C 979. Note: ACI Report No. 212.3R provides guidance on the use of pigments.
- E. Maximum allowable breakage of product is 5%.

2.02 PERMEABLE JOINT OPENING AGGREGATE

A. Provide Permeable Joint Opening Aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 8 as shown in Table 1. Unilock recommends using granite chips listed in table 2 below for vehicular areas with heavy traffic loads such as roadways or drive-through areas.

TABLE 1 - ECO-OPTILOC PERMEABLE JOINT OPENING AGGREGATE GRADATION REQUIREMENTS (CRUSHED LIMESTONE)



ASTM No. 8					
Sieve Size	Percent Passing				
1/2 in (12.5 mm)	100				
3/8 in (9.5 mm)	85 to 100				
No. 4 (4.75 mm)	10 to 30				
No. 8 (2.36 mm)	0 to 10				
No. 16 (1.18 mm)	0 to 5				

- B. Provide Permeable Joint Opening Aggregate materials conforming to ASTM C 33 and gradation requirements as presented in Table 2.
 - 1. Supplier:
 - a. Kafka Granite LLC, 101 S. Weber Ave, Stratford, WI 54484 Toll Free: 800-852-7415
 - b. Alliance Aqua-Roc
 - c. SEK Perm Chip
 - 2. Color: (Specify granite chip color if other than crushed limestone)

TABLE 2 - ECO-PRIORA & TOWN HALL PERMEABLE JOINT OPENING AGGREGATE GRADATION REQUIREMENTS (GRANITE CHIPS)

1/8 to 3/16 inch granite chips					
Sieve Size	Percent Passing				
1/4 in (6 mm)	97 to 100				
No. 4 (4.75 mm)	70 to 83				
No. 8 (2.36 mm)	37 to 50				
No. 16 (1.18 mm)	0 to 12				
pan					

- 2.03 PERMEABLE SETTING BED AGGREGATE
 - A. Provide Permeable Setting Bed Aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 8 as presented in Table 3.

TABLE 3 PERMEABLE SETTING BED AGGREGATE GRADATION REQUIREMENTS

ASTM No. 8					
Sieve Size	Percent Passing				
½ in (12.5 mm)	100				
3/8 in (9.5 mm)	85 to 100				
No. 4 (4.75 mm)	10 to 30				
No. 8 (2.36 mm)	0 to 10				
No. 16 (1.18 mm)	0 to 5				

2.04 PERMEABLE BASE AGGREGATE

A. Provide Permeable Base Aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 57 as presented in Table 4.



GRADATION REQUIREMENTS					
ASTM No. 57					
Sieve Size Percent Passing					
1-1/2 in (37.5 mm)	100				
1 in (25 mm)	95 to 100				
1/2 in (12.5 mm)	25 to 60				
No. 4 (4.75 mm)	0 to 10				
No. 8 (2.36 mm)	0 to 5				

TABLE 4 PERMEABLE BASE AGGREGATE GRADATION REQUIREMENTS

2.05 PERMEABLE SUBBASE AGGREGATE

A. Provide Permeable Subbase Aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 2 as presented in Table 5.

GRADATION REQUIREMENTS					
ASTM No. 2					
Sieve Size Percent Passing					
3 in (75 mm)	100				
2-1/2 in (63 mm)	90 to 100				
2 in (50 mm)	35 to 70				
1-1/2 in (37.5 mm)	0 to 15				
3/4 (19 mm)	0 to 5				

TABLE 5 PERMEABLE SUBBASE AGGREGATE GRADATION REQUIREMENTS

Note: For all aggregates, provide washed, clean, have zero plasticity, free from deleterious or foreign matter, crushed, angular rock and contain no No. 200 sieve size aggregate materials used in the construction of permeable pavement. Aggregate materials serve as the structural load bearing platform of the pavement as well as a temporary receptor for the infiltrated water that is collected through the openings in the pavement's surface.

2.06 GEOTEXTILE (Optional depending on soil conditions)

- A. Provide Geotextile material conforming to the following performance characteristics, measured per the test methods referenced:
 - 1. 4 oz., nonwoven needle punched geotextile composed of 100% polypropylene staple fibers that are inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.
 - 2. Grab Tensile Strength: ASTM D 4632: 115 lbs.
 - 3. Grab Tensile Elongation: ASTM D 4632: 50%
 - 4. Trapezoidal Tear: ASTM D 4533: 50 lbs.
 - 5. Puncture: ASTM D 4833: 65 lbs.
 - 6. Apparent Opening Size: ASTM D 4751: 0.212 mm, 70 U.S. Sieve
 - 7. Permittivity: ASTM D 4491: 2.0 sec -1
 - 8. Flow Rate: ASTM D 4491: 140 gal/min/s.f.
- B. As supplied by Unilock (add location, address, City, State and Zip) Contact: (Insert Unilock representative name and phone number) or your local Territory Manager
 - 1. Carthage Mills FX-40HS



- 2. U.S. Fabrics US 115NW
- 3. Mirafi 140N
- 2.07 EDGE RESTRAINTS

1.

- A. Concrete Edge Restraint as indicated.
- B. Plastic and Metal Edge Restraints:
 - Permaloc, www.permaloc.com
 - a. Material Type: Aluminum
 - b. Model No.: 3 inch GeoEdge capture plate and geogrid
 - 2. SEK Surebond
 - a. Model No.: 8 feet PermEdge with attached geogrid
- Note: The provision of suitable edge restraints is critical to the satisfactory performance of interlocking concrete block pavement. Abut pavers tightly against the restraints to prevent rotation under load and any consequent spreading of joints. Install sufficiently stable edge restraints that are, in addition to providing suitable edge support for the paver units, able to withstand the impact of temperature changes, vehicular traffic and/or snow removal equipment.

Curbs, gutters or curbed gutter, constructed to the dimensions of municipal standards (noting that these standards generally refer to cast-in-place concrete sections), are considered to be acceptable edge restraints for heavy duty installations. Where extremely heavy industrial equipment is involved such as container handling equipment, review the flexural strength of the edge restraint carefully particularly if a section that is flush with the surface is used and may be subjected to high point loading.

- 2.08 ACCESSORIES (Optional depending on project needs)
 - A. [Cleaners] [Sealers]
 - Supplier: Unilock (add location, address, City, State and Zip) Contact: (Insert Unilock representative name and phone number) or your local Territory Manager
 - 2. Material Type and Description: (Specify material type and description)
 - 3. Material Standard: (Specify material standard)

Note: Generally sealing permeable pavers for utilitarian uses such as parking lots is not necessary. Consult with your product representative prior to specifying or remove section 2.08 Accessories.

PART 3 EXECUTION

- 3.01 EXAMINATION
 - A. Examine areas indicated to receive paving for compliance with requirements for installation tolerances and other conditions affecting performance for the following items before placing the Permeable Concrete Pavers.
 - 1. Verify that subgrade preparation, compacted density and elevations conform to specified requirements.
 - 2. Verify that Geotextiles, if applicable, have been placed according to drawings and specifications.
 - 3. Verify that Permeable Base and Subbase Aggregate materials, thickness, compacted density, surface tolerances and elevations conform to specified requirements.
 - 4. Provide written density test results for soil subgrade, Permeable Base and Subbase Aggregate materials to the Owner, General Contractor and paver installation subcontractor.
 - 5. Verify location, type, and elevations of edge restraints, concrete collars around utility structures, and drainage inlets.



- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Beginning of bedding sand and paver installation signifies acceptance of base and edge restraints.

3.02 PREPARATION

- A. Verify that the subgrade soil is free from standing water.
- B. Stockpile Permeable Setting Bed, Joint, Base and Subbase Aggregate materials such that they are free from standing water, uniformly graded, free of any organic material or sediment, debris, and ready for placement.
- C. Remove any excess thickness of soil applied over the excavated soil subgrade to trap sediment from adjacent construction activities before placing the Geotextile and Permeable Subbase Aggregate materials.
- D. Keep area where pavement is to be constructed free from sediment during entire job. Remove and replace all Geotextile, Permeable Joint, Setting Bed, Base and Subbase Aggregate materials contaminated with sediment with clean materials.
- E. Complete all subdrainage of underground services within the pavement area in conjunction with subgrade preparation and before the commencement of Permeable Subbase Aggregate construction.
- F. Prevent damage to underdrain pipes, overflow pipes, observation wells, or inlets and other drainage appurtenances during installation. Report all damage immediately.
- G. Compact soil subgrade uniformly to at least 90 percent of Standard Proctor Density per ASTM D 698 for pedestrian areas. Compact soil subgrade uniformly to at least 95 percent Modified Proctor per ASTM D 1557 for vehicular areas.
- H. Proof-roll prepared subgrade according to requirements in Division 31 Section "Earth Moving" to identify soft pockets and areas of excess yielding. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting and replace with compacted backfill or fill as directed.
- Note: Base compaction and proof-rolling of the subgrade soil on the recommendations of the Design Engineer. Request the Architect/Engineer to inspect subgrade preparations, elevations and conduct density tests for conformance to specifications.
- Note: Mechanical tampers (jumping jacks) are recommended for compaction of soil subgrade and aggregate base around lamp standards, utility structures, building edges, curbs, tree wells and other protrusions. Compact areas, not accessible to roller compaction equipment, to the specified density with mechanical tampers. **CAUTION** – Proceed with care around the perimeters of excavations, buildings, curbs, etc. These areas are especially prone to consolidation and settlement. Do not place wedges of backfill in these areas. If possible particularly in these areas, proceed with backfilling and compacting in shallow lifts, parallel to the finished surface.

3.03 INSTALLATION

A. EDGE RESTRAINTS

- 1. Provide edge restraints as indicated.
 - a. Install job-built concrete edge restraints to comply with requirements in Division 3 Section "Cast-in-Place Concrete." (Add section number and match specification name)
 - b. Provide concrete edge restraint along the perimeter of all paving as specified. Install the face of the concrete edge restraint, where it abuts pavers vertical down to the subbase.
 - c. Construct concrete edge restraint to dimensions and level specified and support on a compacted subbase not less than 6 in (150 mm) thick.
- 2. Provide plastic or metal edge restraints as indicated. (Delete if not being used).
 - a. Provide plastic or metal edge restraints along the perimeter of all paving as indicated and supported on a minimum of 6 inches (150 mm) of Base Aggregate.



1.

- b. Provide 10" spiral galvanized or stainless steel spike to fasten plastic edge restraint at 24 inches on center for straight sections and 12 inches on center for curved sections.
- B. GEOTEXTILES (Delete if not being used).
 - Provide separation geotextile on bottom and sides of prepared soil subgrade. Secure in place to prevent wrinkling or folding from equipment tires and tracks.
 - 2. Overlap ends and edges a minimum of 18 in. (450 mm) in the direction of drainage.
- C. PERMEABLE BASE AND SUBBASE AGGREGATE
 - Provide the Permeable Subbase Aggregate in uniform lifts not exceeding 6 in., (150 mm) loose thickness and compact to at least 95 percent as per ASTM D 4254 to depths as indicated.
 - 2. Compact the Permeable Subbase Aggregate material with at least two passes in the vibratory mode then at least two in the static mode with a minimum 10 ton vibratory roller until there is no visible movement. Do not crush aggregate with the roller.
 - 3. Tolerance: Do not exceed the specified surface grade of the compacted Permeable Subbase Aggregate material more than ±3/4 in. (20 mm) over a 10 ft. (3 m) long straightedge laid in any direction.
 - 4. Provide the Permeable Base Aggregate material in uniform lifts not exceeding 6 in. (150 mm) over the compacted Permeable Subbase Aggregate material and compact to at least 95 percent as per ASTM D 4254 to depths as indicated.
 - 5. Compact the Permeable Base Aggregate material with at least two passes in the vibratory mode then at least two in the static mode with a minimum 10 ton vibratory roller until there is no visible movement. Do not crush aggregate with the compaction device.
 - 6. Tolerance: Do not exceed the specified surface grade of the compacted Permeable Base Aggregate material more than ±1/2 in. (13 mm) over a 10 ft. (3 m) long straightedge laid in any direction.
 - 7. Grade and compact the upper surface of the Permeable Base Aggregate material sufficiently to prevent infiltration of the Permeable Setting Bed Aggregate material both during construction and throughout its service life.
 - Note: In-place density of the Permeable Base and Subbase Aggregate materials may be checked per ASTM D 4254. Establish a Compacted density of 95% of the laboratory index density for the subbase and base stone.
- D. PERMEABLE SETTING BED AGGREGATE
 - 1. Provide, spread and screed Permeable Setting Bed aggregate evenly over the Permeable Base Aggregate course.
 - a. Protect screeded Permeable Setting Bed Aggregate from being disturbed.
 - b. Screed only the area which can be covered by pavers in one day.
 - c. Do not use Permeable Setting Bed Aggregate material to fill depressions in the base surface.
 - 2. Keep moisture content constant and density loose and constant until Concrete Pavers are set and compacted.
 - 3. Inspect the Permeable Setting Bed Aggregate course prior to commencing the placement of the permeable concrete pavers.
 - 4. Inspect the Setting Bed Aggregate course prior to commencing the placement of the Permeable Concrete Pavers. Acceptance of the Setting Bed Aggregate occurs with the initiation of Permeable Concrete Paver placement.
- E. PERMEABLE CONCRETE PAVERS
 - 1. Replace unit pavers with chips, cracks, voids, discolorations, and other defects that might be visible in finished work.
 - 2. Mix Concrete Pavers from a minimum of three (3) bundles simultaneously drawing the paver vertically rather than horizontally, as they are placed, to produce uniform blend of colors and textures. (Color variation occurs with all concrete products. This phenomenon is influenced by a variety of factors, e.g. moisture content, curing conditions, different aggregates and, most commonly, from different production



runs. By installing from a minimum of three (3) bundles simultaneously, variation in color is dispersed and blended throughout the project).

- 3. Exercise care in handling face mix pavers to prevent surfaces from contacting backs or edges of other units.
- 4. Provide Permeable Concrete Pavers using joint pattern as indicated. Adjust joint pattern at pavement edges such that cutting of edge pavers is minimized. Cut all pavers exposed to vehicular tires no smaller than one-third of a whole paver.
- 5. Use string lines or chalk lines on Permeable Setting Bed aggregate to hold all pattern lines true.
- 6. Set surface elevation of pavers 1/8 in. (3 mm) above adjacent drainage inlets, concrete collars or channels.
- 7. Place units hand tight against spacer bars. Adjust horizontal placement of laid pavers to align straight.
 - a. When installation is performed with mechanical equipment, use only unit pavers with spacer bars on sides of each unit.
- 8. Provide space between paver units of 1/32 in. (1 mm) wide to achieve straight bond lines.
- 9. Prevent joint (bond) lines from shifting more than ±1/2 in. (±15 mm) over 50 ft. (15 m) from string lines.
- 10. Fill gaps between units or at edges of the paved area that exceed 3/8 inch (10 mm) with pieces cut to fit from full-size unit pavers.
- 11. Cut unit pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.
- 12. Prevent all traffic on installed pavers until Permeable Joint Aggregate has been vibrated into joints. Keep skid steer and forklift equipment off newly laid pavers that have not received initial compaction and Permeable Joint Aggregate material.
- 13. Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a to 5000-lbf (22-kN) compaction force at 80 to 90 Hz. Perform at least three passes across paving with vibrator. Vibrate under the following conditions:
 - a. After edge pavers are installed and there is a completed surface.
 - b. Compact installed concrete pavers to within 6 feet (1,800 mm) of the laying face before ending each day's work. Cover pavers that have not been compacted and leveling course on which pavers have not been placed, with nonstaining plastic sheets to prevent Permeable Setting Bed Aggregate from becoming disturbed.
- 14. Protect face mix Concrete Paver surface from scuffing during compaction by utilizing a urethane pad.
- 15. Remove any cracked or structurally damaged pavers and replace with new units prior to installing Permeable Joint Opening Aggregate material.
- 16. Provide, spread and sweep Permeable Joint Opening Aggregate into joints immediately after vibrating pavers into Permeable Setting Bed course until full. Vibrate pavers and add Permeable Joint Aggregate material until joints are completely filled, then remove excess material. This will require at least 4 passes with a plate compactor.
- 17. Remove excess Permeable Joint Aggregate broom clean from surface when installation is complete.
- 3.04 FIELD QUALITY CONTROL
 - A. Verify final elevations for conformance to the drawings after sweeping the surface clean.
 - Prevent final Concrete Paver finished grade elevations from deviating more than ±3/8 in. (±10 mm) under a 10 ft (3 m) straightedge or indicated slope, for finished surface of paving.
 - B. Lippage: Paver-to-Paver Lippage:
 - 1. No greater than 3 mm (1/8 inch) difference in height between adjacent pavers.



Note: The industry standard acceptable lippage between adjacent pavers is 3 mm (1/8 inch). Achieving a completely flush paver surface is most desirable but may be unattainable depending on factors such as paver type, setting bed materials or depth, ASTM manufacturing standards or other specific project needs. Consult with your Unilock representative to determine the best approach for a reasonable lippage tolerance on each project.

3.05 REPAIRING, CLEANING AND SEALING

- A. Remove and replace unit pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.
- B. Cleaning: Remove excess dirt, debris, stains, grit, etc. from exposed paver surfaces; wash and scrub clean.
 - 1. Clean Permeable Concrete Pavers in accordance with the manufacturer's written recommendations.
- C. Seal as indicated. (If not indicated elsewhere in the contract documents, sealing is not required and remove this section 3.05, C.)
 - 1. Apply Sealer for Permeable Concrete Pavers in accordance with the sealer and paver manufacturer's written recommendations.

3.06 PROTECTION

A. Protect completed work from damage due to subsequent construction activity on the site.

3.07 PERMEABLE JOINT AGGREGATE MATERIAL REFILLING

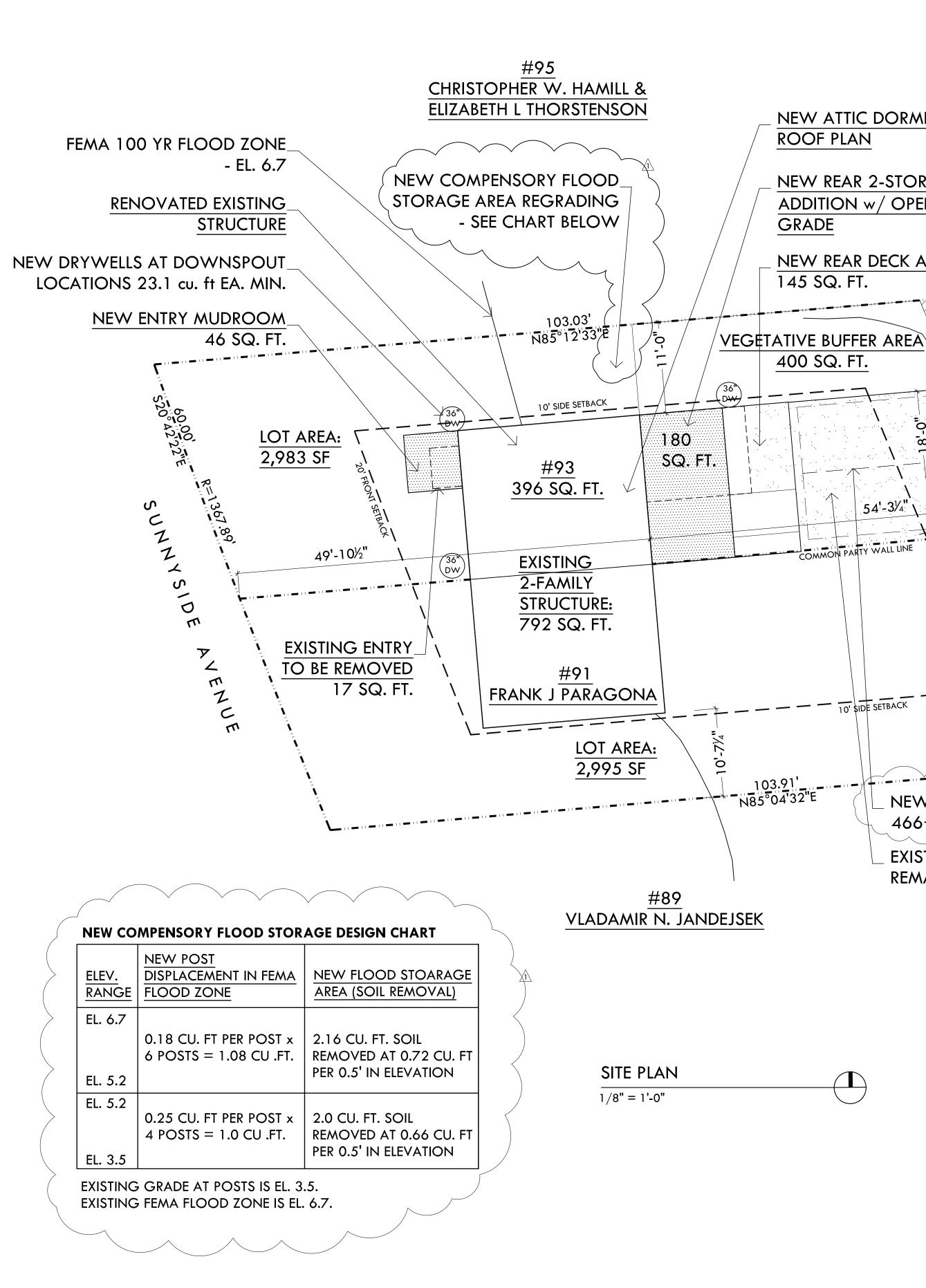
- A. Remove all debris from joint and provide additional Permeable Joint Aggregate material after 120 days and before 150 days after date of Substantial Completion/Provisional Acceptance.
 - 1. Fill Permeable Joint Aggregate material full to the lip of the paver.
- NOTE: This preventative maintenance requirement is very important to include in your specification to help increase the long term function of the system. This is a good item to mention during the prebid meeting.

4.08 LIFE CYCLE ACTIVITIES

- A. Paver cleaning: Clean Permeable Concrete Pavers as needed to remove staining, dirt, debris, etc.
 - 1. Clean per manufacturers recommendations.
- B. Maintenance: Permeable Joint Aggregate Material.
 - 1. Annually inspect Permeable Joint Aggregate material for areas clogged with debris.
 - 2. Vacuum or sweep as necessary to restore surface infiltration.
 - 3. Remove debris by vacuuming or sweeping Permeable Joint Aggregate
 - a. Replenish removed Permeable Joint Aggregate material with clean aggregate material flush to paver lip.
 - b. Sweep excess material from paver surface.

END OF SECTION





PROJECT ADDRESS / APN: 93 SUNNYSIDE AVENUE ARLINGTON MA 02474

OWNER:

ARCHITECT:

NEW ATTIC DORMER - SEE **ROOF PLAN**

NEW REAR 2-STORY ADDITION w/ OPEN AREA AT GRADE

54'-31/4

10' SIDE SETBACK

COMMON PARTY WALL LINE

NEW REAR DECK AT FIRST FLOOR 145 SQ. FT.

GC TO INSTALL SILT FENCE DURING CONSTRUCTION

0

218

T

2

 $\mathbf{\overline{Y}}$ P

x 2

REARE

30.00

21

E D F E mΟ

TI CBR

000

ZZZ

~ s

0 m

R L

UP1

0

PROJECT DESCRIPTION:

EXISTING 2 BEDROOM, 1 BATHROOM SINGLE-FAMILY UNIT PART OF A 2-FAMILY STRUCTURE ON A 5,959 SQ. FT. LOT (+-2,983 SQ. FT PER UNIT). PROPOSED INTERIOR RENOVATIONS w/ NEW ENTRY MUDROOM (46 SQ. FT.) AND KITCHEN/M. BEDROOM ADDITON OFF REAR (180 SQ. FT). PROPOSED NEW ATTIC DORMER WITHING EXISTING FOOTPRINT AT ROOF LEVEL. PROPOSED NEW DECK AT NEW REAR ADDITION - 145 SQ. FT. EXISTING REAR CONCRETE SLAB AND KNEEWALLS TO BE REUSED AT DECK STRUCTURE.

PROJECT STATISTICS:

LOT AREA:

EXISTING LOT COVERAGE:

MAX. LOT COVERAGE ALLOWED:

PROPOSED BUILDING AREA: **EXISTING INTERIOR: EXISTING ENTRY REMOVED:** NEW MUDROOM ENTRY: **NEW REAR ADDITION:**

NEW PROPOSED LOT COVERAGE: EXISTING/RENOVATED INTERIOR: **REMOVAL OF EXISTING ENTRY:** NEW ENTRY MUDROOM: NEW REAR ADDITION::

NEW PERMEABLE PAVERS AT NEW DRIVEWAY -466+- SQ. FT. - SEE SHT A2.1A

EXISTING SLAB AT GRADE TO REMAIN (DASHED)

SITE PLAN GENERAL NOTES:

THE PROPERTY LINE AND BOUNDARY INFORMATION IS BASED ON INFORMATION PROVIDED BY THE PLOT PLAN BY JOSEPH SELWYN, REGISTERED LAND SURVEYOR, REPORT DATED UNKNOWN - COPY IS ON FILE AT ISD.

TEMPORARY INFILTRATION TRENCHES TO BE USED ON SITE DURING ANY/ALL DE-WATERING DURING FOUNDATION WORK. INFILTRATION TRENCHES TO USE $\frac{3}{4}$ " GRAVEL AT A DEPTH OF 3' FROM GRADE OR TO TOP OF WATER TABLE, VIF. ALL TRENCHES SHALL BE RESTORED POST CONSTRUCTION.

PERMEABLE PAVER SYSTEM: (5"x10" UNILOCK ECO-PRIORA) SHALL BE INSTALLED ON 1" OF BEDDING SAND, 90% COMPACTED OVER 8" MINIMUM OF AGGREGATE GRAVEL BASE, COMPACTED 90%. PLASTIC EDGE RESTRAINTS SHALL BE INSTALLED ALONG EACH SITE USING 10" GALVANIZED SPIKES. IF SOIL CONDITIONS ARE POOR, INCREASE BASE DEPTH TO 12". APPLY POLYMETRIC JOINTING SAND TO REDUCE WEED GROWTH - DO NOT USE CHEMICAL WEED KILLERS AS PART OF THE MAINTENANCE PLAN. SEE PRODUCT SPECIFICATIONS FOR SPECIFIC INSTALLATION REQUIREMENTS.

NEW DRYWELLS (LEACHING PITS): INSTALL 36" DIAM. x 66" DEEP DRYWELLS HINED w/ 5 OZ. WQVEN, NEEDLE-PUNCHED POLYPROPYLENE LANDSCAPE FABRIC AND INFILLED $\frac{1}{2}$ /WASHED $\frac{3}{4}$ " GRAVEL AGGREGATE. PROVIDE PERFORATED 4" PVC PIPE TO BE DROPPED INTO THE DRYWELL AND CONNECT BOTTOM OF DOWNSPOUT TO PIPE. MAINTAIN PIPE AND DRAINAGE BY CLEARING OUT ORGANIC MATERIAL, LEAVES AND DIRT EVERY 45-60 DAYS, MIN.

APN: 34-3-18

MICHAEL GREENBLATT + LYNNE COONEY 93 SUNNYSIDE AVENUE ARLINGTON MA 02474

GREENBLATT

- COONEY

RESIDENCE

93 SUNNYSIDE AVENUE ARLINGTON, MA 02474

Ianchard **A+D**

blanchardA+D

661 MASSACHUSETTS AVENUE

SUITE 20 ARLINGTON, MA 02476

tblanchard@gmail.com

TELEPHONE 617-519-5434

NOT FOR

CONSTRUCTION

blanchardA+D, LLC MA LIC#: 30597 661 MASSACHUSETTS AVE. SUITE 20 ARLINGTON MA 02476 (617) 519-5434

2,983 SQ. FT.

396 SQ. FT. + 17 SQ. FT. = 413 SQ. FT. (13.8%)

1,044 SQ. FT. (35% PER R2) +447 SQ. FT. (+15% PER A5.7.5,B,2)

398 + 409 = 807 GROSS SQ. FT. -17 GROSS SQ. FT. 46 GROSS SQ. FT. 360 GROSS SQ. FT. (+9.0%)

1,196 SQ. FT. (+389 GROSS SQ. FT AREA)

396 SQ. FT.

-17 SQ. FT. 46 SQ. FT. 180 SQ. FT.

LEGEND

0018.0

534 SQ. FT. (+209 SQ. FT, +7.5% LOT COVERAGE)

NEW HOUSE/ADDITION

NEW DRIVEWAY

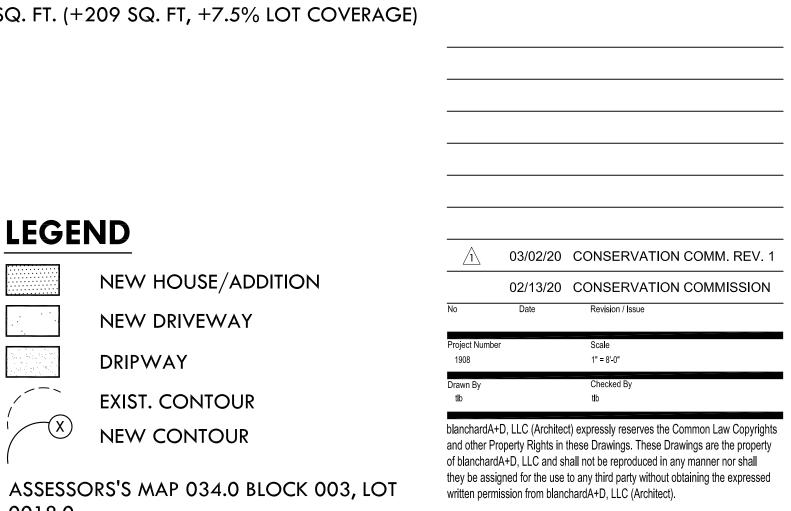
EXIST. CONTOUR

NEW CONTOUR

DRIPWAY

93 SUNNYSIDE AVENUE,

ARLINGTON MA 02474



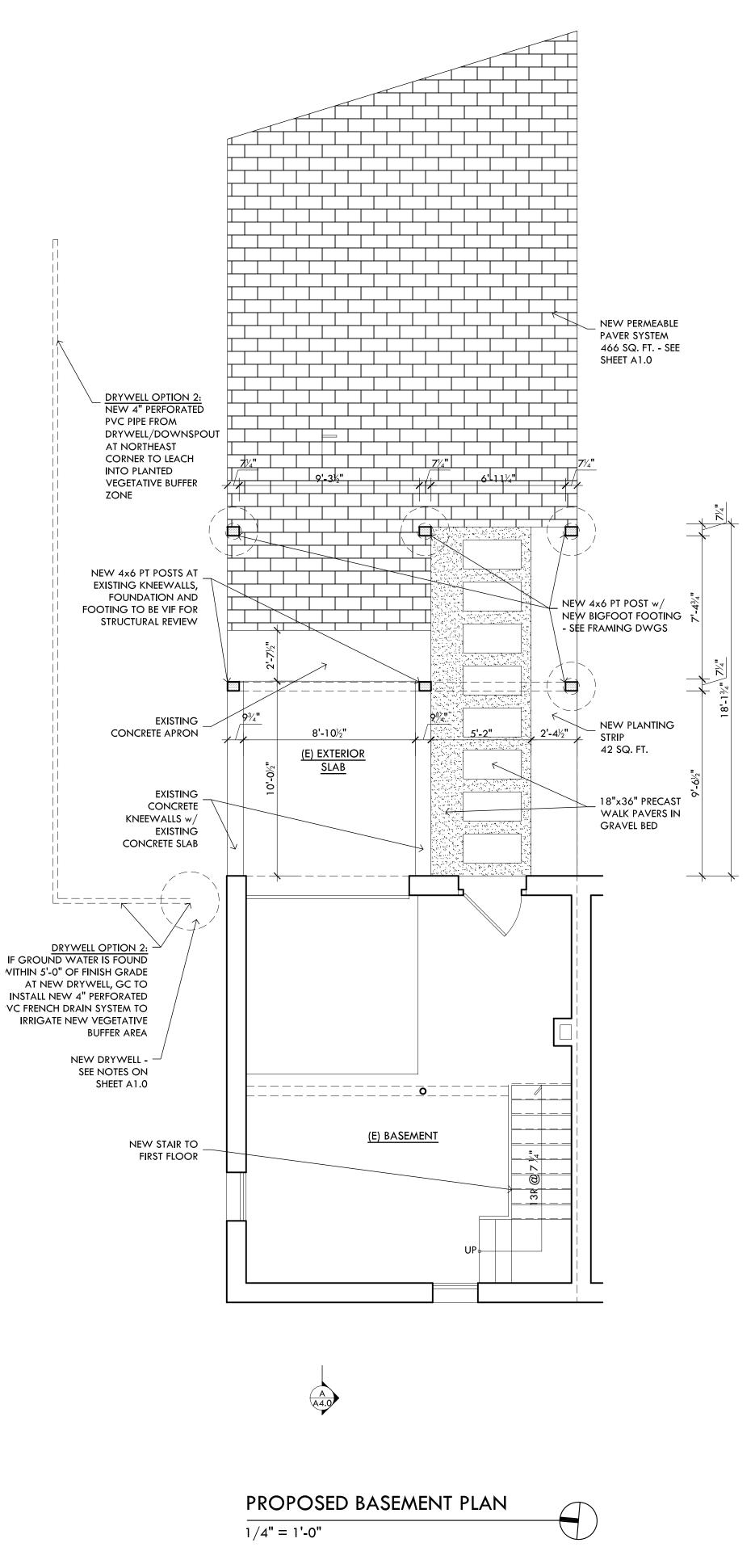
© 2020 blanchardA+D, LLC / Timothy L Blanchard, AIA

PROPOSED SITE PLAN

SETBACK REQUIRED: FRONT: 20' SIDE: 10' REAR: 20' PARTY WALL: O' HEIGHT: 35', 2.5 STORIES MAXIMUM

ZONING: R-2, TWO FAMILY RESIDENTIAL

A1.0



stone s	LABS AT VANIT	Y AND COUNT	ER TOPS.			
TILE KITC	HEN BACKSPLA	SH				
DPOSED	FLOOR PLAN V	VALL LEGEND:				
	EXISTING WA	lls to remain	l			
	NEW WALLS					
		N	0'	2'	4'	8

1. ALL SHADED WALLS ON EXISTING PLANS INDICATE NEW WALLS - REFER

CERAMIC SHOWER WALL FLOOR TILE, THIN SET AND PORCELAIN FLOOR TILE

TO DIMENSIONS FOR WALL SIZES. REFER TO EXISTING/DEMOLITION

4. 5/8" GYPSUM WALL BOARD WITH SMOOTH PLASTER FINISH AND

PROPOSED PLAN NOTES:

DRAWINGS FOR WALLS TO BE REMOVED.

3. BATHROOM & KITCHEN FINISHES:

OVER MUD BASE AT SHOWER FLOOR.

2. ALL DIMENSIONS ARE TO FACE OF FRAMING.

WASHABLE LATEX PAINT AND PAINTED BASE.

A2.1A

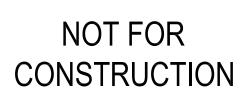
PROPOSED BASEMENT & DRIVEWAY PLANS

No

blanchardA+D, LLC (Architect) expressly reserves the Common Law Copyrights and other Property Rights in these Drawings. These Drawings are the property of blanchardA+D, LLC and shall not be reproduced in any manner nor shall they be assigned for the use to any third party without obtaining the expressed written permission from blanchardA+D, LLC (Architect). © 2020 blanchardA+D, LLC / Timothy L Blanchard, AIA

Project Number	Scale	
1908	AS NOTED	
Drawn By	Checked By	
tlb	tlb	

03/02/20 CONSERVATION COMM. REV 1 Date Revision / Issue



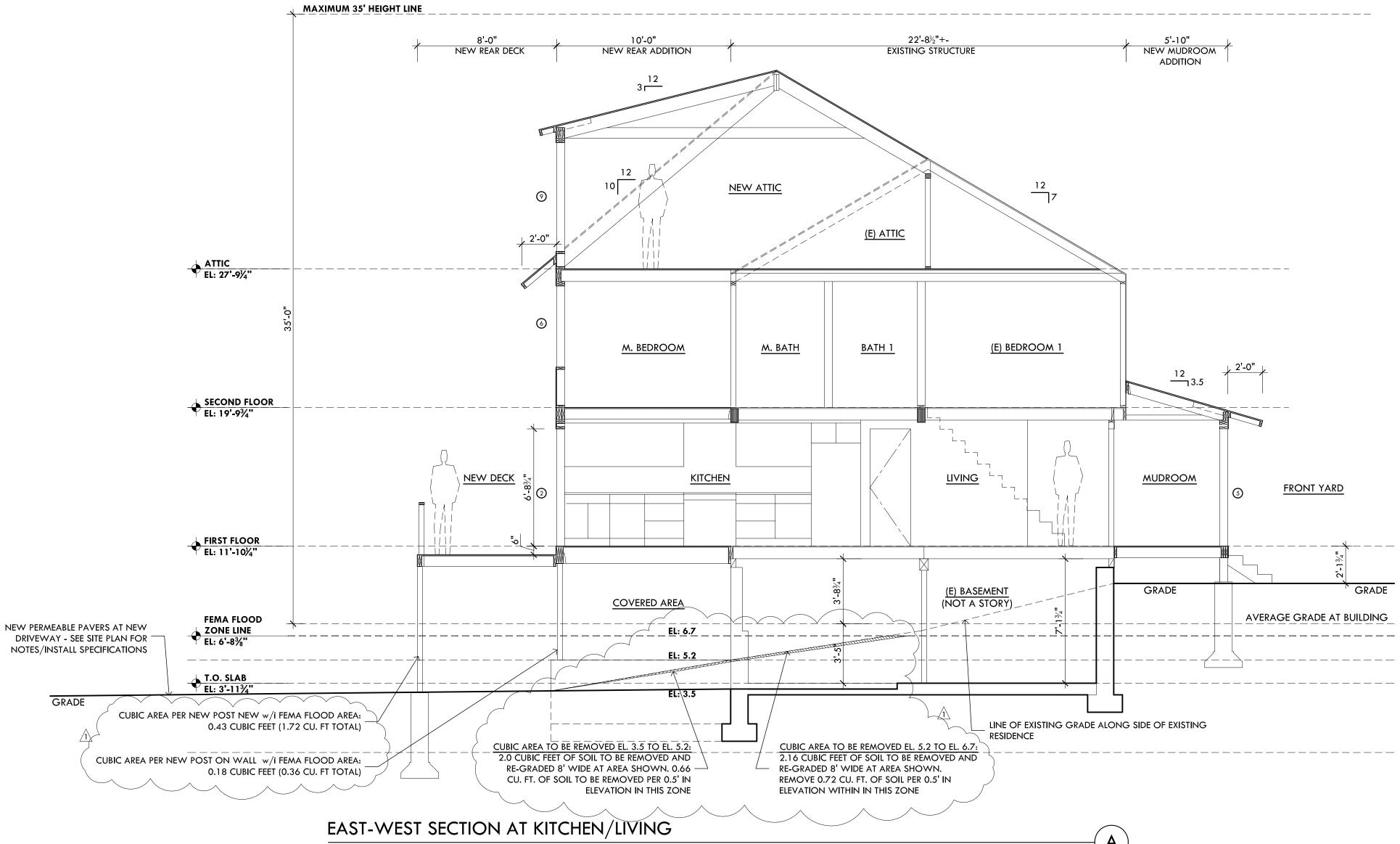
blanchardA+D 661 MASSACHUSETTS AVENUE SUITE 20 ARLINGTON, MA 02476 tblanchard@gmail.com TELEPHONE 617-519-5434

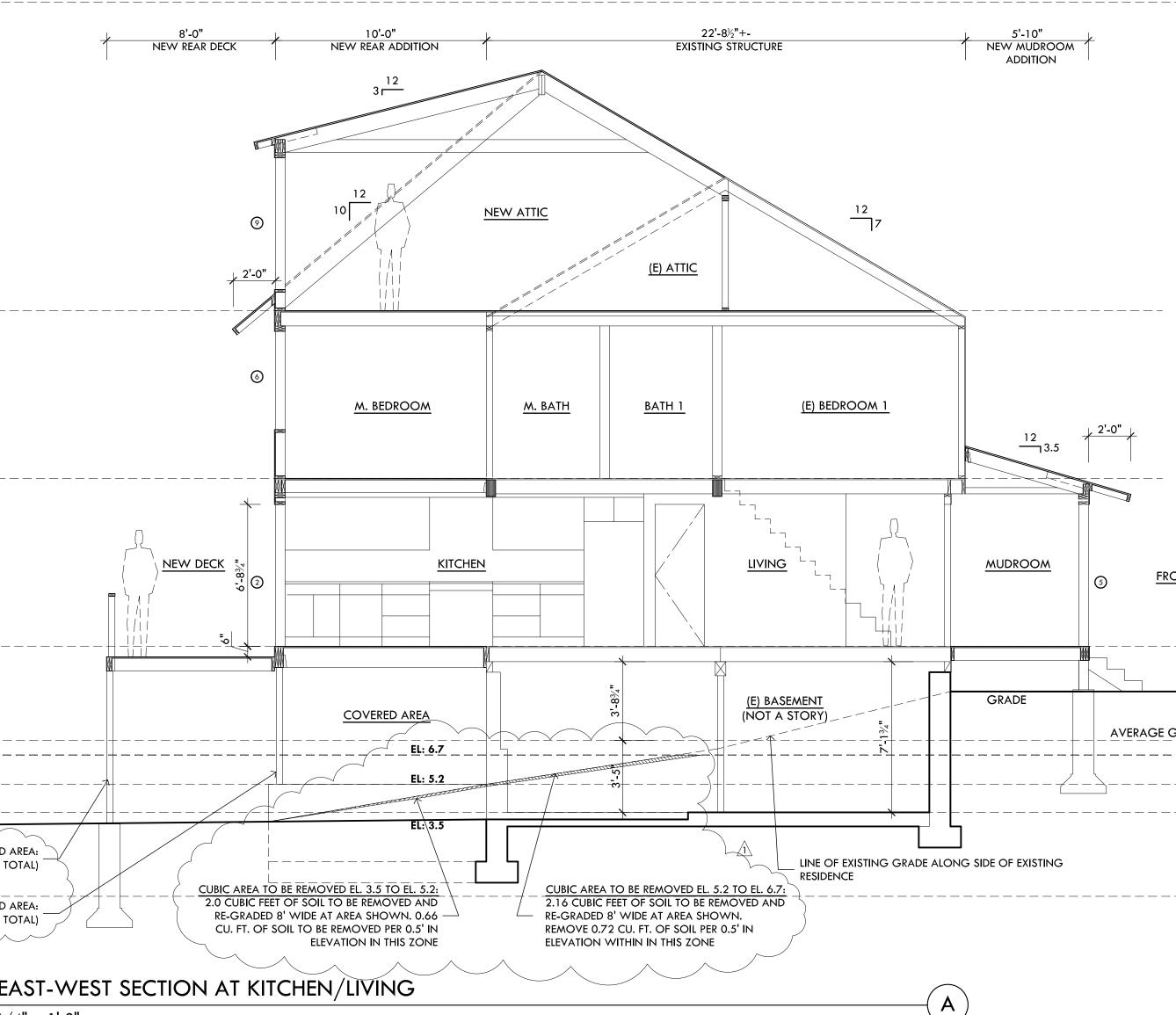


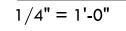
GREENBLATT - COONEY RESIDENCE

. .





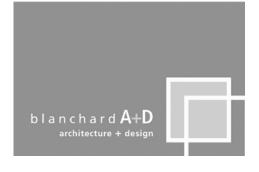




GREENBLATT - COONEY RESIDENCE

8 2

93 SUNNYSIDE AVENUE ARLINGTON, MA 02474



blanchardA+D 661 MASSACHUSETTS AVENUE SUITE 20 ARLINGTON, MA 02476 Iblanchard@gmail.com TELEPHONE 617-519-5434

NOT FOR CONSTRUCTION

03/02/20 CONSERVATION COMM. REV. 1 02/13/20 CONSERVATION COMMISSION Date Revision / Issue Scale AS NOTED tb blanchardA+D, LLC (Architect) expressly reserves the Common Law Copyrights

and other Property Rights in these Drawings. These Drawings are the property of blanchardA+D, LLC and shall not be reproduced in any manner nor shall they be assigned for the use to any third party without obtaining the expressed written permission from blanchardA+D, LLC (Architect).

© 2020 blanchardA+D, LLC / Timothy L Blanchard, AIA

BUILDING SECTIONS

0' 2' 4'



FRONT YARD

GRADE

AVERAGE GRADE AT BUILDING

Lynne Cooney 93 Sunnyside Avenue Project Narrative Addendum 2/2/2020

- 1. **New Driveway Design:** Driveway is reduced to 466 sq. ft. allowable for side-by-side parking for two compact cars. See attached site plan A2.1A.
- 2. New compensatory flood storage design at same elevation as encroachment: See site plan A1.0 & A4.0.
- **3.** Alternative for the backyard drywell in the event that the water table is too high: If ground water is too high, new perforated VC French drain system will be installed that will direct water run off to vegetation buffer area. See site plan A2.1A.

4. Planting Narrative:

Back Yard Riverfront Area:

Identify and remove any invasive plants. In the 400 sq. ft. vegetation buffer will include a mixture of flowering pollinator plants tolerant of wet soil and full and/or partial sun including Swamp Milkweed, Beebalm, Joe-pye Weed, and Star Flower. Flowering plants will be arranged tallest to shortest and grouped by color: White Swamp milkweed in the back (bordering 95 Sunnyside property line), a layer of pink Joe-pye Weed, then a layer of purple Beebalm, and layer of blue Star Flower closest to driveway.

Opposite side in vegetation 42 sq. ft. strip assortment of ferns that tolerate wet soil and partial sun/partial shade including Ostrich Fern, Cinnamon Fern, and Lady Fern.

Front yard Sunnyside Ave:

Identify and remove invasive plants. New plantings will be a mixture of ornamental grasses including Pennsylvania Sage and Purple Love Grass.

Vegetation will be maintained without the use of use chemicals or toxic sprays.



Town of Arlington, Massachusetts

Notice of Intent

Summary: 47 Spy Pond Lane Lot 1/A MassDEP File #unassigned

The Superseding Order of Conditions issued by the Massachusetts Department of Environmental Protection on 12/29/2016 for Lot 1/A expired on 12/29/2019. This project site is therefore currently only permitted under the local Arlington Wetlands Protection Bylaw, and not the Massachusetts Wetlands Protection Act. This Notice of Intent is filed under the Wetlands Protection Act only. This project proposes to demolish an existing house and construct a new house.

ATTACHMENTS:

	Туре	File Name	Description
D	Notice of Intent	47SPL_Lot_1_NOI_unsigned_redacted.pdf	47SPL Lot 1 NOI Form
D	Notice of Intent	47SPL_Lot_1_Work_Description.pdf	47SPL Lot 1 Narrative
D	Notice of Intent	47SPL_Lot_1_Proposed_Plan.pdf	47SPL Lot 1 Proposed Plan
D	Notice of Intent	47SPL_Lot_1_Planting_Plan.pdf	47SPL Lot 1 Proposed Planting Plan
D	Notice of Intent	47SPL_Lot_1_Drainage_Analysis.pdf	47SPL Lot 1 Drainage Analysis
D	Notice of Intent	47SPL_Lot_1_Construction_O_M_Plan.pdf	47SPL Lot 1 Construction O&M Plan
D	Notice of Intent	MassDEP_Superseding_OOCs.pdf	47SPL Superseding Orders of Conditions



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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 Arlington 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.

Project Location (N	lote: electronic filers wi	Il click on button to locate p	roject site):
47 Spy Pond Lane	(Lot 1/Lot A)	Arlington	02474
a. Street Address		b. City/Town	c. Zip Code
Latitude and Longit	tude:	d. Latitude	e. Longitude
12-4-2			
f. Assessors Map/Plat N	lumber	g. Parcel /Lot Numbe	er
Applicant:			
Scott		Seaver	
a. First Name		b. Last Name	
Seaver Construction	n		
c. Organization			
215 Lexington Stre	et		
d. Street Address			
Woburn		MA	01801
e. City/Town		f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email Address	
Property owner (re	i. Fax Number quired if different from a	applicant): Check if	more than one owner
			more than one owner
Property owner (real		applicant): Check if	more than one owner
Property owner (real a. First Name c. Organization		applicant): Check if	more than one owner
Property owner (real a. First Name c. Organization d. Street Address		applicant): Check if	
Property owner (red a. First Name c. Organization d. Street Address e. City/Town	quired if different from a	applicant): Check if b. Last Name f. State	
Property owner (red a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a	quired if different from a	Applicant): Check if b. Last Name f. State j. Email address	
Property owner (red a. First Name c. Organization d. Street Address e. City/Town h. Phone Number	quired if different from a	applicant): Check if b. Last Name f. State	
Property owner (real a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a Mary a. First Name	quired if different from a	Applicant): Check if b. Last Name f. State j. Email address Trudeau	
Property owner (red a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a Mary	quired if different from a	Applicant): Check if b. Last Name f. State j. Email address Trudeau	
Property owner (real a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a Mary a. First Name	quired if different from a	Applicant): Check if b. Last Name f. State j. Email address Trudeau	g. Zip Code



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Arlington City/Town

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

A. General Information (continued)

6. General Project Description:

Construction of a single family dwelling. Work is within one hundred feet of the statutory Bank of Spy Pond and adjacent Bordering Vegetated Wetlands.

4. Dock/Pier

8. Transportation

6. Coastal engineering Structure

7a.	Project	Type Checklist:	(Limited	Project	Types see	Section A	. 7b.)
<i>i</i> u.	1 10,000	Type Oneokiist.		1 10,000	1 9000 0000	0000017	

1.	Single Family Home	2. 🗌 Residential Subdivision

- 3. Commercial/Industrial
- 5. 🗌 Utilities
- 7. Agriculture (e.g., cranberries, forestry)
- 9. 🗌 Other

1.

7b. Is 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)?

🗌 Yes	If yes, describe which limited project applies to this project. (See 310 CMR
	10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex	
a. County	b. Certificate # (if registered land)
73606	227
c. Book	d. Page Number

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

- 1. Buffer Zone Only Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any 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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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 Arlington City/Town

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

	<u>Resou</u>	<u>ce Area</u>	Size of Proposed Alteration	Proposed Replace	ement (if any)
For all projects	a. 🗌	Bank	1. linear feet	2. linear feet	
affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.	b. 🗌	Bordering Vegetated Wetland	1. square feet	2. square feet	
	c. 🗌	Land Under Waterbodies and	1. square feet	2. square feet	
		Waterways	3. cubic yards dredged		
	<u>Resou</u>	ce Area	Size of Proposed Alteration	Proposed Replace	ement (if any)
	d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square feet	
	e. 🗌	Isolated Land	3. cubic feet of flood storage lost	4. cubic feet replace	d
	0.	Subject to Flooding	1. square feet	_	
			2. cubic feet of flood storage lost	3. cubic feet replace	d
	f. 🗌	Riverfront Area	1. Name of Waterway (if available) - spe	cify coastal or inland	
	2.	Width of Riverfront Area	(check one):		
		25 ft Designated D	ensely Developed Areas only		
		100 ft New agricult	tural projects only		
		200 ft All other pro	jects		
	3.	Total area of Riverfront Are	ea on the site of the proposed projec	ct: square fe	et
	4.	Proposed alteration of the	Riverfront Area:		
	a. 1	total square feet	b. square feet within 100 ft.	c. square feet between	100 ft. and 200 ft.
	5.	Has an alternatives analys	is been done and is it attached to th	is NOI?] Yes 🗌 No
	6.	Was the lot where the activ	vity is proposed created prior to Aug	ust 1, 1996?] Yes 🗌 No
3	. 🗌 Co	astal Resource Areas: (Se	e 310 CMR 10.25-10.35)		
	Note:	for coastal riverfront areas	, please complete Section B.2.f. ab	ove.	



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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 Arlington City/Town

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		Resource Area		Size of Propose	d Alteration	Proposed Replacement (if any)	
transaction number		a. 🗌	Designated Port Areas	Indicate size ur	nder Land Under	the Ocean, below	
(provided on your receipt page) with all supplementary information you submit to the Department.		b. 🗌	Land Under the Ocean	1. square feet			
				2. cubic yards dredg	ed		
		c. 🗌	Barrier Beach	Indicate size und	der Coastal Beac	ches and/or Coastal Dunes below	
		d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment	
		e. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment	
				Size of Propose	d Alteration	Proposed Replacement (if any)	
		f. 🗌	Coastal Banks	1. linear feet			
				Rocky Intertidal Shores	1. square feet		
			h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
		i. 🗌	Land Under Salt Ponds	1. square feet			
				2. cubic yards dredg	ed		
		j. 🗌	Land Containing Shellfish	1. square feet			
		k. 🗌	Fish Runs			s, inland Bank, Land Under the rWaterbodies and Waterways,	
				1. cubic yards dredg	ed		
		I. 🗌	Land Subject to Coastal Storm Flowage	1. square feet			
	4. 5.	If the p	footage that has been enter			esource area in addition to the /e, please enter the additional	
		a. square	e feet of BVW		b. square feet of S	alt Marsh	
		🗌 Pro	pject Involves Stream Cros	sings			
		a. numb	er of new stream crossings		b. number of repla	cement stream crossings	



Provided by MassDEP: **Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number Arlington City/Town

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

C. Other Applicable Standards and Requirements

This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Notice of Intent - Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. 🛛 Yes 🗌 No	If yes, include proof of mailing or hand delivery of NOI to:
	Natural Heritage and Endangered Species Program
	Division of Fisheries and Wildlife
2008	1 Rabbit Hill Road - Westborough, MA 01581
b. Date of map	- Westbolough, WA 01561

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

c. Submit Supplemental Information for Endangered Species Review*

- 1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area

0 percent percentage/acreage

(b) outside Resource Area

percentage/acreage

- Assessor's Map or right-of-way plan of site 2.
- 2. Reproject 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 **
 - Project description (including description of impacts outside of wetland resource area & (a) 🖂 buffer zone)
 - Photographs representative of the site (b) 🕅

Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). 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. 52 of 223 wpaform3.doc • rev. 3/10/2016 Page 5 of 9



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Provided by MassDEP:

MassDEP File Number

WPA Form 3 – Notice of Intent

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

Document Transaction Number Arlington City/Town

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

(c) MESA filing fee (fee information available at <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm</u>). Make check payable to "Commonwealth of Massachusetts - NHESP" and *mail to NHESP* at above address

Projects altering **10 or more acres** of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
- 1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm;</u> the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

<u>а</u> П	Separate MESA review ongoing.		
2.	Separate MESA review origoing.	a. NHESP Tracking #	b. Date submitted to NHESP

- 3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
- 3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

а. 🗌	Not applicable	 project is in in 	and resource area only	b. 🗌	Yes	🗌 No
------	----------------	--------------------------------------	------------------------	------	-----	------

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:	North Shore - Hull to New Hampshire border:
Division of Marine Fisheries -	Division of Marine Fisheries -
Southeast Marine Fisheries Station	North Shore Office

Southeast Marine Fisheries Station Attn: Environmental Reviewer 1213 Purchase Street – 3rd Floor New Bedford, MA 02740-6694 Email: <u>DMF.EnvReview-South@state.ma.us</u> Division of Marine Fisheries -North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: DMF.EnvReview-North@state.ma.us

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.

	Ви М а	Assachusetts Department of Environmental Protection areau of Resource Protection - Wetlands /PA Form 3 – Notice of Intent assachusetts Wetlands Protection Act M.G.L. c. 131, §40 Provided by MassDEP: MassDEP File Number Document Transaction Number Arlington City/Town
	C.	Other Applicable Standards and Requirements (cont'd)
	4.	Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
Online Users: Include your document		a. Yes 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.
transaction number		b. ACEC
(provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
supplementary information you		a. 🗌 Yes 🖾 No
submit to the Department.	6.	Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
		a. 🗌 Yes 🖾 No
	7.	Is this project subject to provisions of the MassDEP Stormwater Management Standards?
		 a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if: 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
		2. A portion of the site constitutes redevelopment
		3. Proprietary BMPs are included in the Stormwater Management System.
		b. No. Check why the project is exempt:
		1. Single-family house
		2. Emergency road repair
		3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.
	_	Additional Information

This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Arlington City/Town

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

D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

Keenan Survey	James R Keenan
b. Prepared By	c. Signed and Stamped by
	1"=20'
d. Final Revision Date	e. Scale
See Notice of Intent	
f. Additional Plan or Document Title	g. Date

- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

MassDEP File Number
Document Transaction Number
Arlington
City/Town

Provided by MassDEP:

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)	4. Date
5. Signature of Representative (if any)	6. Date

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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands 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.



A. Applicant Information

1.	Location of Project:			
	47 Spy Pond Lane	(Lot A)	Arlington	
	a. Street Address	· · ·	b. City/Town	
	c. Check number		d. Fee amount	
2.	Applicant Mailing A	ddress:		
	Scott		Seaver	
	a. First Name		b. Last Name	
	Seaver Constructio	n		
	c. Organization			
	215 Lexington Stree	ət		
	d. Mailing Address			
	Woburn		MA	01801
	e. City/Town		f. State	g. Zip Code
	h. Phone Number	i. Fax Number	j. Email Address	
3.	Property Owner (if	different):		
	a. First Name		b. Last Name	
	c. Organization			
	d. Mailing Address			
	e. City/Town		f. State	g. Zip Code
	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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Single Family Dwelling	<u>(1)</u>	\$500.00 	\$500.00
	Step 5/To	tal Project Fee:	\$500.00
	Step 6/F	ee Payments:	
		Project Fee:	\$500.00 a. Total Fee from Step 5 \$237.50
	State share City/Town share	-	b. 1/2 Total Fee less \$ 12.50 \$262.50 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.)

Description of Work

Notice of Intent Filing

47 Spy Pond Lane (Lot 1/Lot A) Arlington, MA

EXISTING CONDITIONS

The lot consists of vacant land located within one hundred feet of Spy Pond. To date, an erosion control barrier has been installed above the Bank of Spy Pond, as well as along the 25 foot no disturb zone. Currently, the site is inactive, but has a dumpster and several stockpiles of earth situated approximately 75 feet from the Bank of the Pond. The following photos characterized this lot on February 17, 2020:





As can be seen in the photos, above, the stockpiles are loosely covered by a tarp, and located well above the future limit of work line. As shown below, the port-o-let for the site, as well as the aforementioned dumpster, are set on this site.



This Notice of Intent is filed under the Massachusetts Wetlands Protection Act, as the Superseding Order of Conditions issued by the Department of Environmental Protection for this project, lapsed in December of 2019. As a result of this permitting issue, work on the site has been at a standstill for several weeks.

WETLANDS DELINEATION

Wetland Resource Areas on the Lot

The wetlands on the property were delineated by Mary Trudeau in the early spring of 2016. Statutory wetlands on, or adjacent to, the property include Bank; Land Under Waterbody; and Bordering Land Subject to Flooding. There is no wetlands vegetation above the Bank of the waterbody on Lot 1, thus there are no Bordering Vegetated Wetlands on the lot. Jurisdictional buffer zones (and the Adjacent Upland Resource Area) have been calculated from the Bank of the waterbody. The wetlands delineation was affirmed in the Superseding Orders of Conditions issued for Lots 1/2 (A/B) in 2016, and through the issuance of Orders of Conditions issued by the Arlington Conservation Commission in 2019.

For the purposes of this filing, the mean annual high water level has been estimated at between elevations (3 and 4). This corresponds to the first discernable break in slope observed at this site. FEMA has determined the 100 year flood elevation to fall along the Bank of the Pond, but does not give a specific elevation on the maps for this site (attached). This delineation was also affirmed in the Superseding Order of Conditions previously issued for the property by DEP, under the Massachusetts Wetlands Protection Act, as well as the subsequent Orders of Conditions issued under the local Arlington wetlands protection bylaw.

WORK INCLUDED IN THE NOTICE OF INTENT

Demolition and Reconstruction of a Paved Surface Associated With A Single Family Dwelling

This work appears to have been substantially completed during the life of the Superseding Order of Conditions that had been issued for this lot in 2016, and expired in late December of 2019.

Construction of a new Single Family Home

The proposed footprint is the same house footprint approved in the Orders of Conditions issued for this project, under the local wetlands bylaw, in 2019. Siting of the proposed house footprint was done with consideration of the existing zoning setbacks, as well as the Arlington Conservation Commissions local wetlands regulations. Extensive offsite and onsite mitigation was approved for this proposal in the Order of Conditions issued by the Conservation Commission under the local bylaw.

The proposed dwelling will be located more than seventy four (74') feet from the waterline, with the closest portion of the proposed deck set at a 71.4 feet from the pond.

MITIGATING MEASURES

Restoration of the 0 to 25 foot Adjacent Upland Resource Area to a naturalized condition:

With the exception of plantings to restore naturalized conditions within the lowest sections of the jurisdictional buffer zone, the application does not include any changes within twenty five feet of the Bank resource area, and proposes no intrusion of the dwelling, or infiltration system, into the 25 to 50 foot buffer zone/Adjacent Upland Resource Area. The application includes a restoration plan designed to remove lawn areas, and restore a woody, thicket type vegetation to the 0 to 25 foot Adjacent Upland Resource Area. This plan includes the planting of a variety of native, woody shrubs within the 0 to 25 foot buffer zone, leaving only an 8 foot wide foot path open between the 25 foot buffer zone line and the waterbody.

Shrubs will be planted at 6'-10' foot centers, and will consist of the following varieties of woody plants:

(10) Arrowwood(Viburnum recognitum) (3' - 4' height)(6' foot on center)

(10) Sweet Pepperbush (Clethra alnifolia) (3' – 4'height) (6' on center)

(10) Silky Dogwood (Cornus amomum) (3' – 4' height) (8' on center)

(3) Shadbush (Aronia intermedia) (3' - 5' height) (6' - 8' on center)

(5) Witch Hazel (Hamamelis virginiana) (4-6' height) (10-12' on center)
(30) Lowbush Blueberry (Vaccinium angustifolia) (1-2' height) (2-3 foot on center)

Shrubs will be planted in groups of like plants, with the Lowbush Blueberry set just above the Bank of the Pond. The area will not be mowed, and will be allowed to regenerate as a thicket type buffer above the Bank of Spy Pond. This planting plan has been reviewed by the NHESP program and a letter issued stating that the plan as proposed will not result in a taking of a protected species.

Construction of a Free Standing, Un-Mortared Stone Wall 25 Feet from the Bank of Spy Pond:

The applicant will construct a free standing, field stone wall, with a height of at least 2.5 feet along the 25 foot buffer zone. The wall will begin 2 feet to the south of the northern property line, and run southerly to the edge of the 8 ' foot wide pedestrian walkway straddling the property line between Lots 1 and 2. The wall will function primarily as a demarcation of the newly restored 0-25 foot Adjacent Upland Area, but will be constructed with small voids and openings to enhance wildlife habitat.

Use of Retaining Walls to Minimize Grading and Filling on Site:

Retaining walls are proposed perpendicular to the proposed dwelling to minimize grading changes on the property. The retaining walls will be engineered block walls, designed to allow for grade changes without adding fill materials to the lot.

Relocation of Existing Dock

The project locus currently has a small wooden dock, currently located on the northern bank of the pond on Lot 1. The applicant agrees to pursue a waterways license modification to relocate the dock to run perpendicular to the property line between lots 1 and 2. The dock will be aligned with the proposed walking path, proposed as straddling the lot line between the lots.

Storm Water Management Mitigation

On-Site:

The proposed site plan includes full mitigation for the increased surface water flows and impervious surfaces on the site. The proposal includes a subsurface infiltration system designed to capture and infiltrate roof runoff, via a closed gutter system. This mitigation is proposed to be located outside of the 0 to 50 foot buffer zone, and provides both infiltration through the inherent recharge capacity, as well as a reduction in both peak flows and volume of overland storm water flows resulting from the proposed development. The infiltration system, has been conservatively over sized, and will result in reduced rates and volumes of stormwater runoff, when compared to the existing conditions on site as well as the proposed conditions. (The oversized system was designed and sized to accommodate the original foot print of the home proposed for this lot, and has not been reduced in size for the currently proposed footprint. This results in approximately 28 percent excess capacity within the system for each of the design storm events.) The oversizing of this system also fully mitigates for the proposed additional impervious surfaces proposed in this Notice of Intent filing.

Off-Site

While traditionall mitigation relates directly to the proposed impact of a project, Seaver Construction is proposing to retrofit a Vortechnics 2000 water quality treatment unit into the Town of Arlington's storm water drainage system. This improvement will benefit the resource area, ie Spy Pond, and will mitigate for the sediment generated by 1.55 acres of impervious surface located in the Spy Pond watershed. This decision to proposed off site mitigation reflected the extensive on site mitigation currently proposed, and the inability to provide additional meaningful on site mitigation for the proposed redevelopment. The Vortechnics unit is a proprietary storm water treatment device with a proven, superior record of sediment removal from storm water flows. This unit is proposed as a "holistic" mitigation for the increased impervious surface proposed through the development of Lot 1. While it does not directly mitigate for work on Lot 1, it provides mitigation to the waterbody below Lot 1, improving the quality of the resource area.

Through discussions with the Town Engineer, the project Engineer, the Conservation Commission as well as representatives from Vortechnics, this system was determined to be capable of treating road runoff discharged from a 1.55 acre watershed of impervious surfaces located within Pond View and Princeton Roads. The structure will provide removal of suspended solids, improving the result discharges to Spy Pond.

The estimate cost of the storm water unit is \$16,338 delivered to the site. The cost of installation is estimated to bring the value of the mitigation to \$25,000 to \$30,000 dollars. Seaver Construction is requesting that the Commission allow the previously offered gift of \$5000 dollars be applied to expenditures over \$25,000, with any residual funds donated back to the Commission for use in environmental protection.

Construction of a Permeable Driveway:

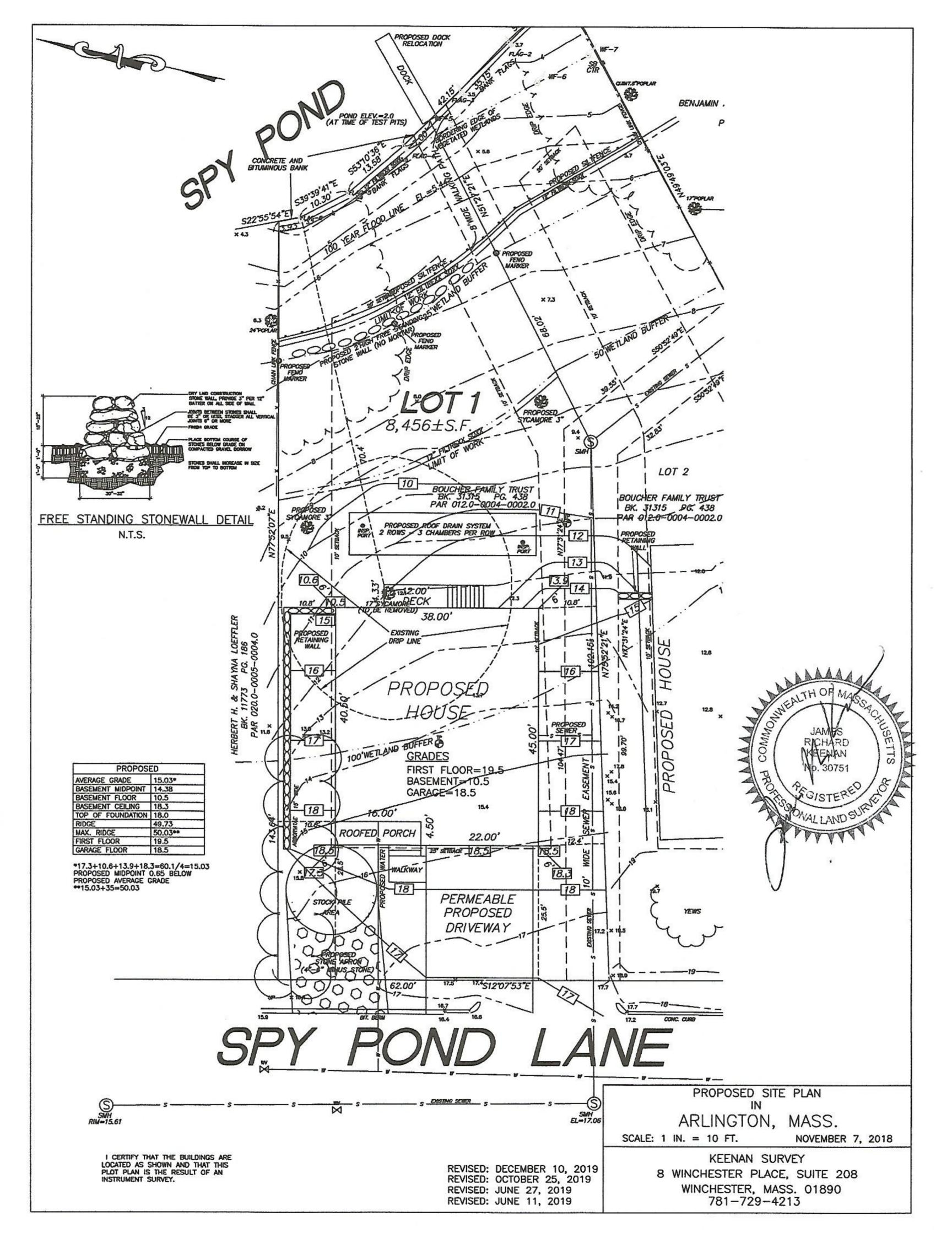
Seaver Construction has agreed to install a permable driveway surface between Spy Pond Lane and the new garage entrance. While this work is non jurisdictional as the driveway is located more than one hundred feet from Spy Pond, the driveway is within the watershed of Spy Pond. The infiltration and recharge area associated with this type of surface is generally considered an environmental benefit.

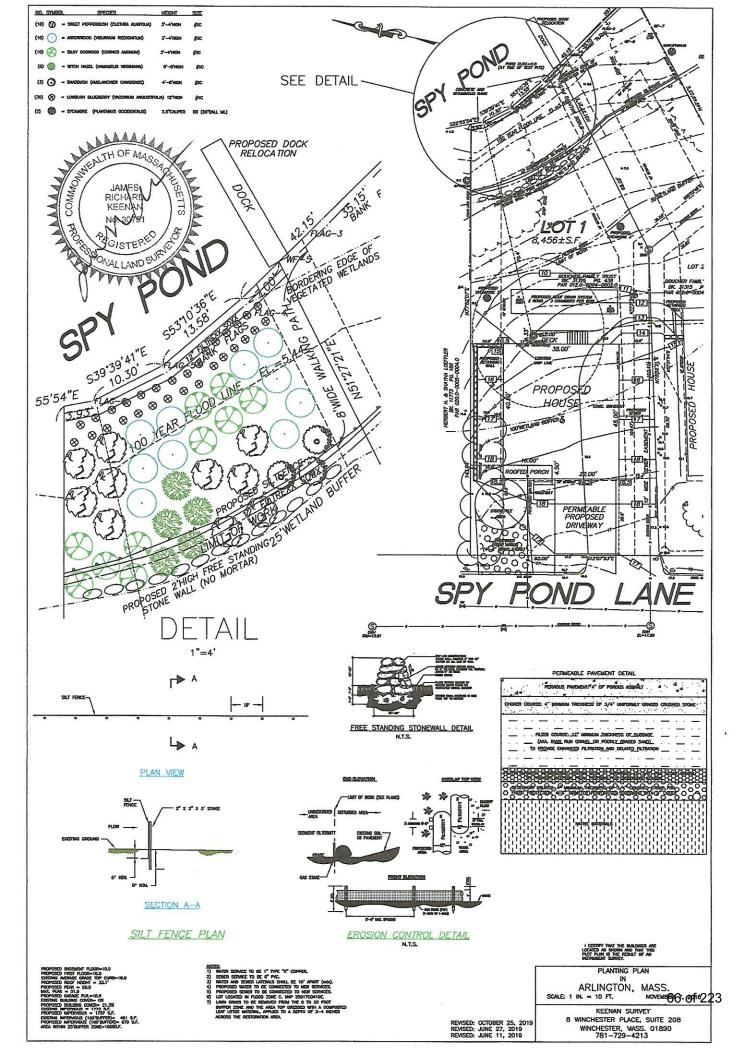
Installation and Maintenance of Erosion and Sedimentation Controls

Prior to any construction on the site, the limit of work line will be created through the use of a staked line of siltation control fencing set with a row of 12 inch diameter filter soxx filled with composted wood mulch. The controls will be used to insulate the various work areas from the down gradient wetlands, and will be maintained throughout the construction process. It is expected that a filter soxx will be set along the 25 foot buffer zone. As work areas vary during the construction, additional check dams and barriers may need to be added to protect recently graded areas. A detail of the installation has been included in the site plans for the project.

Stockpile areas will be established above the jurisdictional buffer zone. While the proposed foundation work will result in temporary or short term stockpiles of earth materials, the applicant will have erosion controls between stockpiles and the remnants of the existing grassed lawn area between the work area and the vegetated wetlands. Stockpiles will be bounded by staked straw bales or wattles, and excess soil materials will be hauled from the site. The surface of the work

area will be loamed, planted and/or hydro seeded at the completion of the construction, and erosion controls maintained throughout the winter months.





ALAN ENGINEERING, L.L.C.

288 Littleton Road, Suite 31 Westford, MA 01886 (978) 577-6444 alan.eng@verizon.net

June 28, 2016

Scott Seaver Seaver Construction, Inc. 215 Lexington Street Woburn, MA 01801

Ref: Drainage Analysis 47 Spy Pond Lane – Lot 1 Arlington, MA

Dear Mr. Seaver:

Alan Engineering has prepared the following drainage analysis of the proposed house on Lot 1 at 47 Spy Pond Lane in Arlington, MA.

This analysis compares runoff generated from the existing site to the runoff that will be generated from the site after the construction of the new house. In accordance with the requirements of the Arlington Conservation Commission the 10-year, 25-year, and 100-year storm events were analyzed. The storm events were 24-hour rainfalls with a Type III rainfall distribution. The rainfall amounts were based on the "Cornell Study".

The proposed lot will contain 8,456 square feet of land. Under the existing conditions the lot contains 1,775 square feet of impervious area. The proposed site will contain a total of 2,659 square feet of impervious area.

The increase in impervious area will result in an increase in the rate and volume of runoff. In order to mitigate the increase a subsurface roof drain infiltration system is proposed. A roof gutter and downspout system will collect all roof runoff and discharge it into a subsurface system located at the rear of the proposed house. The system will collect and recharge a portion of the roof runoff that is slightly greater than the increase in runoff volume generated by the proposed site development. The result is a decrease in both the peak rate and total volume of runoff from the site. The results of the analysis are summarized in the table below.

Test pits were excavated on the lot on June 28, 2016 to determine the permeability of the soil and the depth to groundwater. All test pits had approximately 5 feet of fill above the original ground. The underlying native soil is fine sand. A percolation test yielded a rate of 1 minute per inch. This is indicative of hydrologic soil group (HSG) A. The estimated seasonal high groundwater ranged from 54 inches to 66 inches below the ground surface in 3 of the 4 test holes, and 90 inches below the ground surface in the higher of the 4 test holes.

Comparative Hydrologic Summary

47 Spy Pond Lane - Lot 1

Arlington, MA

June 28, 2016

10 Year Storm - 4.80 inches

	Pre-Development		Post Development	
Point of Analysis	Peak Rate (c.f.s.)	Volume (ac-ft)	Peak Rate (c.f.s.)	Volume (ac-ft)
Total Runoff	0.03	0.006	0.01	0.003

50 Year Storm - 7.06 inches

	Pre-Deve	elopment	Post Development				
Point of Analysis	Peak Rate (c.f.s.)	Volume (ac-ft)	Peak Rate (c.f.s.)	Volume (ac-ft)			
Total Runoff	0.23	0.020	0.12	0.013			

100 Year Storm - 8.48 inches

	Pre-Deve	elopment	Post Development	
Point of Analysis	Peak Rate (c.f.s.)	Volume (ac-ft)	Peak Rate (c.f.s.)	Volume (ac-ft)
Total Runoff	0.41	0.032	0.24	0.022

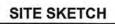
Please feel free to contact me with any questions or comments.

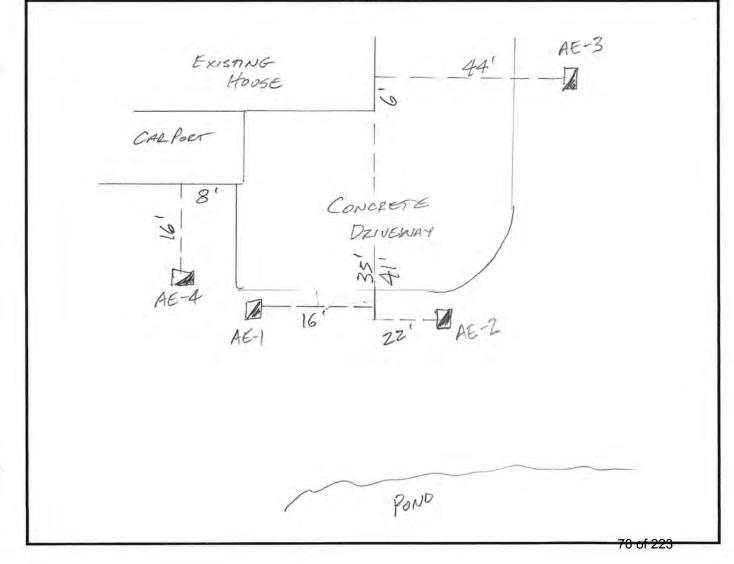
Very truly yours, ALAN ENGINEERING, L.L.C.

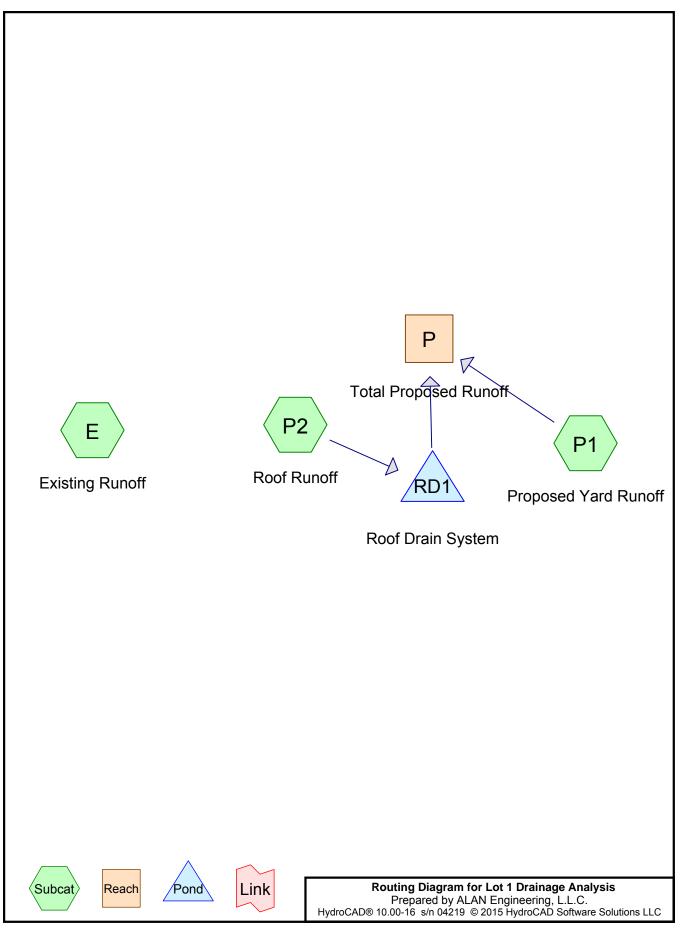
Mark A. Sleger, P.E. Manager

		SOILE	VALUATIO	REPORT		
Job Nu	mber <u>114</u>	O PYPONDLANE	Client	SEAVER LO	NSTRUCTION	h
Site Add	dress <u>475</u>	PY POND LANE	Town	ARLINGTO.	N	
	Current Use	RESIDENTA	Z			
	e Description	SINGLE FRA	1127 RESIDE	NCE		
	Land Form	GROUND MEN	RRAINE			
	Vegetation	LAINN				
V	later Supply	Towns			, ,	
Deep Ho	le No AE-	-1			23/2016	
		EGER	. Ten	perature 6		
Local O	official <u>N/</u>	4		Weather <u>Co</u>	0007-6160	HT KATNS
Horizon	Depth	Classification	Color		Comments	3
FILC		SANDY LOAM		SOME GA	enver	
C	54-126	FINE -SAND	104R 574			
Seepage	Standing	Mottling	Color	ESHWT	Roots	Refusal
108"	-	60 "	2.576/3	60 "	72"	-
Deep Ho	NO AE	-2				
Horizon	Depth Classification		Color	Comments		
FILL	.0-60"	SANDY FILL		MOTTLING IN	I SAND FILL	
A	60-69"	SANDY LOAMS	104R2/2			
B	69-78"	FINESAND	104R-4/6			
6	78-120	FINE SAND	1042 5/4			
Seepage	Standing	Mottling	Color	ESHWT	Roots	Refusal
108"	108"	54"		54"	78*	
Deep Ho	No AE.	-3				
Horizon	Depth	Classification	Color		Comments	3
Fill	0-60"	SANDY FUL	-			
C,	60- 138"	FINE SAND	104R 5/4			
Seepage	Standing	Mottling	Color	ESHWT	Roots	Refusal
-	-	90"	2.57 6/3	90"	96"	_
Doon He	No No	_1				
Horizon	Depth	Classification	Color		Comments	
Fice	0-66 "	SANDY FILL	50.01			
C,	66-114"	FINE SAND	10425/4			
<u> </u>	00 117	TINGJAND	1512 14			
Seepage	Standing	Mottling	Color	ESHWT	Roots	Refusal
ocopage		66"	2,546/3	66"		

	ALAN E	ENGINEERIN	IG, L.L.C.		
	SOIL E	VALUATION	REPORT		
Job Number		Client	SCAUER	CONST.	
Site Address 47 5	Town _				
		ERCOLATION	TESTS		
Soil Evaluator <u>M.Sco</u> Local Official <u>N/A</u>	EGER	Date Weather	6/28/2016 40HT R	_Temperature	_65°
Deep Hole No	AE-1				
Depth to Bottom	84"			1.	1
Soil Classification	FINE SAND	1		1	1
Start Pre Soak	9:02				
Start of Test - 12"	9:17				
Time at 9"	9:21			· · · · · ·	
Time at 6"	9:24			1	
Time from 9" to 6"	3 MIN				
Percolation Rate	MIN/INOH				







Lot 1 Drainage Analysis Type III 24-h Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

Page 2

Summary for Subcatchment E: Existing Runoff

Runoff = 0.03 cfs @ 12.31 hrs, Volume= 0.006 af, Depth> 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Storm Rainfall=4.80"

A	rea (sf)	CN	Adj Des	Description			
	1,775	98	Unc	Unconnected pavement, HSG A			
	6,681	39	>75	% Grass co	ver, Good, HSG A		
	8,456 6,681 1,775 1,775	51	79.0 20.9	Weighted Average, UI Adjusted 79.01% Pervious Area 20.99% Impervious Area 100.00% Unconnected			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
5.0					Direct Entry,		

Summary for Subcatchment P1: Proposed Yard Runoff

Runoff = 0.01 cfs @ 12.39 hrs, Volume= 0.003 af, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Storm Rainfall=4.80"

A	rea (sf)	CN	Adj Des	Description				
	692	98		Unconnected pavement, HSG A				
	5,797	39	>75	% Grass co	ver, Good, HSG A			
	6,489 5,797 692 692	45	89.3 10.6	Weighted Average, UI Adjusted 89.34% Pervious Area 10.66% Impervious Area 100.00% Unconnected				
Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description			
5.0					Direct Entry,			

Summary for Subcatchment P2: Roof Runoff

Runoff = 0.22 cfs @ 12.07 hrs, Volume= 0.017 af, Depth> 4.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Storm Rainfall=4.80"

Page 3

Lot 1 Drainage Analysis

Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

CN Description Area (sf) 1,967 98 Roofs, HSG A 1,967 100.00% Impervious Area Slope Velocity Capacity Length Description Тс (min) (feet) (ft/ft) (ft/sec) (cfs) 5.0 **Direct Entry**,

Summary for Reach P: Total Proposed Runoff

Inflow Area =	0.194 ac, 31.45% Impervious, Inflow De	epth > 0.20" for 10-Year Storm event
Inflow =	0.01 cfs @ 12.39 hrs, Volume=	0.003 af
Outflow =	0.01 cfs @ 12.39 hrs, Volume=	0.003 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Summary for Pond RD1: Roof Drain System

Inflow Area =	0.045 ac,100.00% Impervious, Inflow D	epth > 4.56" for 10-Year Storm event
Inflow =	0.22 cfs @ 12.07 hrs, Volume=	0.017 af
Outflow =	0.05 cfs @ 11.73 hrs, Volume=	0.017 af, Atten= 77%, Lag= 0.0 min
Discarded =	0.05 cfs @ 11.73 hrs, Volume=	0.017 af
Primary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 7.49' @ 12.45 hrs Surf.Area= 262 sf Storage= 148 cf

Plug-Flow detention time= 13.8 min calculated for 0.017 af (100% of inflow) Center-of-Mass det. time= 13.7 min (761.0 - 747.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	6.50'	198 cf	11.25'W x 23.25'L x 2.54'H Field A
			665 cf Overall - 169 cf Embedded = 496 cf x 40.0% Voids
#2A	7.00'	169 cf	Cultec R-150XLHD x 6 Inside #1
			Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
			Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
			Row Length Adjustment= +0.75' x 2.65 sf x 3 rows
		367 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	6.50'	8.270 in/hr Exfiltration over Horizontal area
#2	Primary	8.50'	4.0" Round Culvert X 2.00
			L= 5.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 8.50' / 8.40' S= 0.0200 '/' Cc= 0.900
			n= 0.010 PVC, smooth interior, Flow Area= 0.09 sf

Discarded OutFlow Max=0.05 cfs @ 11.73 hrs HW=6.53' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=6.50' (Free Discharge) —2=Culvert (Controls 0.00 cfs) Lot 1 Drainage AnalysisType III 24-hPrepared by ALAN Engineering, L.L.C.HydroCAD® 10.00-16s/n 04219© 2015 HydroCAD Software Solutions LLC

Page 5

Summary for Subcatchment E: Existing Runoff

Runoff = 0.23 cfs @ 12.10 hrs, Volume= 0.020 af, Depth> 1.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 50-Year Storm Rainfall=7.06"

A	rea (sf)	CN	Adj Des	Description			
	1,775	98			avement, HSG A		
	6,681	39	>75	<u>% Grass co</u>	ver, Good, HSG A		
Тс	8,456 6,681 1,775 1,775 Length	51 Slope	79.0 20.9 100	1% Perviou 9% Impervi .00% Uncor	ous Area		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
5.0					Direct Entry,		

Summary for Subcatchment P1: Proposed Yard Runoff

Runoff = 0.12 cfs @ 12.11 hrs, Volume= 0.013 af, Depth> 1.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 50-Year Storm Rainfall=7.06"

A	rea (sf)	CN	Adj Des	Description				
	692	98			avement, HSG A			
	5,797	39	>75	5% Grass co	ver, Good, HSG A			
	6,489 5,797 692 692	45	89.: 10.	ighted Avera 34% Perviou 66% Impervi 0.00% Uncor	ious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	5 1 5		Description			
5.0					Direct Entry,			

Summary for Subcatchment P2: Roof Runoff

Runoff = 0.32 cfs @ 12.07 hrs, Volume= 0.026 af, Depth> 6.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 50-Year Storm Rainfall=7.06"

Lot 1 Drainage Analysis

Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

Page 6

A	rea (sf)	CN I	Description					
	1,967	98 I	8 Roofs, HSG A					
	1,967		100.00% Impervious Area					
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
5.0	//	, <i>,</i> , , , , , , , , , , , , , , , , ,	· · · /		Direct Entry,			

Summary for Reach P: Total Proposed Runoff

Inflow Area =	0.194 ac, 31.45% Impervious, Inflow De	epth > 0.78" for 50-Year Storm event
Inflow =	0.12 cfs @ 12.11 hrs, Volume=	0.013 af
Outflow =	0.12 cfs @ 12.11 hrs, Volume=	0.013 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Summary for Pond RD1: Roof Drain System

Inflow Area =	0.045 ac,100.00% Impervious, Inflow De	epth > 6.82" for 50-Year Storm event
Inflow =	0.32 cfs @ 12.07 hrs, Volume=	0.026 af
Outflow =	0.05 cfs @ 11.64 hrs, Volume=	0.026 af, Atten= 85%, Lag= 0.0 min
Discarded =	0.05 cfs @ 11.64 hrs, Volume=	0.026 af
Primary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 8.32' @ 12.54 hrs Surf.Area= 262 sf Storage= 289 cf

Plug-Flow detention time= 30.7 min calculated for 0.026 af (100% of inflow) Center-of-Mass det. time= 30.6 min (772.0 - 741.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	6.50'	198 cf	11.25'W x 23.25'L x 2.54'H Field A
			665 cf Overall - 169 cf Embedded = 496 cf \times 40.0% Voids
#2A	7.00'	169 cf	Cultec R-150XLHD x 6 Inside #1
			Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
			Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
			Row Length Adjustment= +0.75' x 2.65 sf x 3 rows
		367 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	6.50'	8.270 in/hr Exfiltration over Horizontal area
#2	Primary	8.50'	4.0" Round Culvert X 2.00
			L= 5.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 8.50' / 8.40' S= 0.0200 '/' Cc= 0.900
			n= 0.010 PVC, smooth interior, Flow Area= 0.09 sf

Discarded OutFlow Max=0.05 cfs @ 11.64 hrs HW=6.53' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=6.50' (Free Discharge) —2=Culvert (Controls 0.00 cfs)

Page 8

Summary for Subcatchment E: Existing Runoff

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 0.032 af, Depth> 1.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Storm Rainfall=8.48"

A	rea (sf)	CN	Adj Des	Description			
	1,775	98	Unc	onnected pa	avement, HSG A		
	6,681	39	>75	% Grass co	ver, Good, HSG A		
	8,456 6,681 1,775 1,775	51	79.0 20.9	ghted Avera 01% Perviou 09% Impervi 00% Uncor	ous Area		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
5.0					Direct Entry,		

Summary for Subcatchment P1: Proposed Yard Runoff

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 0.021 af, Depth> 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Storm Rainfall=8.48"

A	rea (sf)	CN	Adj Des	scription	
	692	98			avement, HSG A
	5,797	39	>75	5% Grass co	ver, Good, HSG A
	6,489 5,797 692 692	45	89.: 10.	ighted Avera 34% Perviou 66% Impervi 0.00% Uncor	ious Area
Tc (min)	Length (feet)	Slope (ft/ft)			Description
5.0					Direct Entry,

Summary for Subcatchment P2: Roof Runoff

Runoff = 0.39 cfs @ 12.07 hrs, Volume= 0.031 af, Depth> 8.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Storm Rainfall=8.48"

Page 9

Lot 1 Drainage Analysis

Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

CN Description Area (sf) 1,967 98 Roofs, HSG A 1,967 100.00% Impervious Area Slope Velocity Capacity Length Description Тс (min) (feet) (ft/ft) (ft/sec) (cfs) 5.0 **Direct Entry**,

Summary for Reach P: Total Proposed Runoff

Inflow Area =	0.194 ac, 31.45% Impervious, Inflow D	Depth > 1.38" for 100-Year Storm event
Inflow =	0.24 cfs @ 12.09 hrs, Volume=	0.022 af
Outflow =	0.24 cfs @ 12.09 hrs, Volume=	0.022 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Summary for Pond RD1: Roof Drain System

Inflow Area =	0.045 ac,100.00% Impervious, Inflow Depth > 8.23" for 100	-Year Storm event
Inflow =	0.39 cfs @ 12.07 hrs, Volume= 0.031 af	
Outflow =	0.13 cfs @ 12.32 hrs, Volume= 0.031 af, Atten= 66%	, Lag= 15.0 min
Discarded =	0.05 cfs @ 11.60 hrs, Volume= 0.029 af	
Primary =	0.08 cfs @ 12.32 hrs, Volume= 0.002 af	

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 8.65' @ 12.32 hrs Surf.Area= 262 sf Storage= 327 cf

Plug-Flow detention time= 33.1 min calculated for 0.031 af (100% of inflow) Center-of-Mass det. time= 33.0 min (772.2 - 739.1)

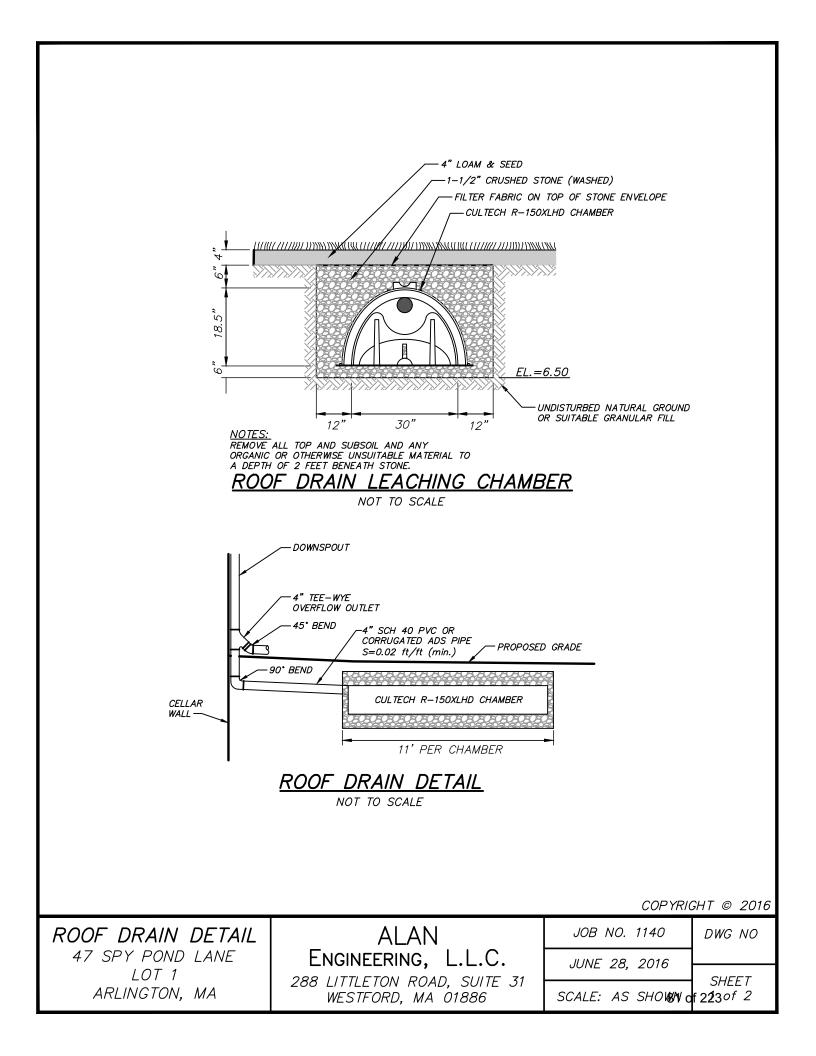
Volume	Invert	Avail.Storage	Storage Description
#1A	6.50'	198 cf	11.25'W x 23.25'L x 2.54'H Field A
			665 cf Overall - 169 cf Embedded = 496 cf x 40.0% Voids
#2A	7.00'	169 cf	Cultec R-150XLHD x 6 Inside #1
			Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
			Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
			Row Length Adjustment= +0.75' x 2.65 sf x 3 rows
		367 cf	Total Available Storage

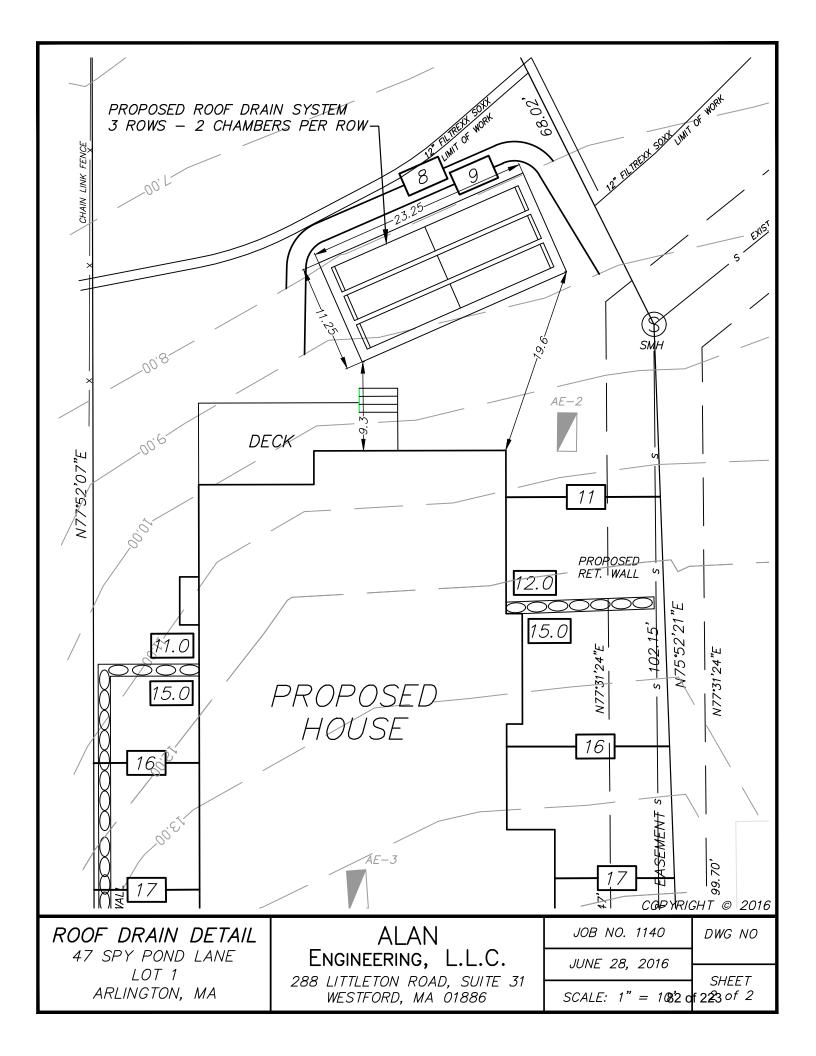
Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	6.50'	8.270 in/hr Exfiltration over Horizontal area
#2	Primary	8.50'	4.0" Round Culvert X 2.00
			L= 5.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 8.50' / 8.40' S= 0.0200 '/' Cc= 0.900
			n= 0.010 PVC, smooth interior, Flow Area= 0.09 sf

Discarded OutFlow Max=0.05 cfs @ 11.60 hrs HW=6.53' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.08 cfs @ 12.32 hrs HW=8.65' (Free Discharge) ←2=Culvert (Inlet Controls 0.08 cfs @ 1.06 fps)





Construction Period Operation & Maintenance Plan

Construction Period Stormwater Operation & Maintenance Plan

Site Redevelopment 47 Spy Pond Lane (Lot 1/A), Arlington, MA Erosion and Sedimentation will be controlled at the site by utilizing Structural Practices, Stabilization Practices, and Dust Control. These practices correspond with site plans submitted for the 47 Spy Pond Lane (Lot 1/A) project.

Responsible Party

Seaver Construction, Inc. 215 Lexington Street Woburn, MA 01801

City of Arlington Emergency Contact Information

Conservation Administrator

Town Hall 730 Massachusetts Avenue Arlington, MA (781) 316 3012

Project Summary

The project involves the construction of a new home, driveway, landscaping and utilities. Additionally, mitigation is provided through the installation of a Vortechnics unit within the Town roadway. A wetland resource area, ie Spy Pond, at the rear of the property requires diligence in ensuring that disturbance to the site does not cause erosion or detriment to the resource area. At the outset of the project, erosion controls shall be installed and maintained throughout the duration of the proposed work as follows.

Erosion & Sedimentation Control Practices

 Silt Sock Erosion Control Barrier – A Filter Mitt erosion control barrier, backed by an entrenched row of siltation control fencing, will be installed along downward slopes at the limit of work shown on the site plans. This control will be installed prior to soil disturbance on the site. The sediment fence should be installed as shown on the Site Plans.

Filter Mitt Inspection/Maintenance *

- a) Erosion control should be inspected immediately after each rainfall event of 1-inch or greater, and at least daily during prolonged rainfall. Inspect the depth of sediment, fabric tears, if the silt sock is securely attached to the ground, and to see that the stakes are firmly in the ground. Repair or replace as necessary.
- b) Remove sediment deposits promptly after storm events to provide adequate storage volume for the next rain and to reduce pressure on the sock. Sediment will be removed from behind the sock when it becomes about 3 inches deep at the fence. Take care to avoid undermining sock during cleanout.

- c) Remove all materials after the contributing drainage area has been properly stabilized. Sediment deposits remaining after the fabric has been removed should be graded to conform with the existing topography and vegetated.
- 2) Stabilized Construction Entrance A stabilized construction entrance shall be placed at the location of the proposed driveway, or at the location specified on the site plans. The stabilized entrance shall be installed immediately following the removal of the existing bituminous concrete driveway. The entrance will keep mud and sediment from being tracked onto Spy Pond Lane by vehicles leaving the site. This stabilized entrance shall be 15 feet long and as wide as the proposed drive.

Construction Entrance Design/Construction Requirements *

- a) Stone for a stabilized construction entrance shall consist of 1 to 3-inch stone placed on a stable foundation.
- b) Pad dimensions: The minimum length of the gravel pad should be 15 feet. The pad should extend the full width of the proposed driveway, or wide enough so that the largest construction vehicle will fit in the entrance with room to spare; whichever is greater. If a large amount of traffic is expected at the entrance, then the stabilized construction entrance should be wide enough to fit two vehicles across with room to spare.
- c) A geotextile filter fabric shall be placed between the stone fill and the earth surface below the pad to reduce the migration of soil particles from the underlying soil into the stone and vice versa. The filter fabric should be Amoco woven polypropylene 1198 or equivalent.

Construction Entrance Inspection/Maintenance *

- a) The entrance should be maintained in a condition that will prevent tracking or flowing of sediment onto Spy Pond Lane. This may require periodic topdressing with additional stone.
- b) The construction entrance and sediment disposal area shall be inspected weekly and after heavy rains or heavy use.
- c) Mud and sediment tracked or washed onto public road shall be immediately removed by sweeping.
- d) If washing facilities are used, the sediment traps should be cleaned out as often as necessary to assure that adequate trapping efficiency and storage volume is available.
- e) The pad shall be reshaped as needed for drainage and runoff control.
- f) All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after the temporary practices are no longer needed. Trapped sediment shall be removed or stabilized on site. Disturbed soil areas resulting from removal shall be permanently stabilized.

3) <u>**Temporary Seeding**</u> – Temporary seeding will allow a short-term vegetative cover on disturbed site areas that may be in danger of erosion. Temporary seeding will be done at stock piles and disturbed portions of the site where construction activity will temporarily cease for at least 21 days. The temporary seedings will stabilize cleared and unvegetated areas that will not be brought into final grade for several weeks or months.

Temporary Seeding Planting Procedures *

- a) Planting should preferably be done between April 1st and June 30th, and September 1st through September 31st. If planting is done in the months of July and August, irrigation may be required. If planting is done between October 1st and March 31st, mulching should be applied immediately after planting. If seeding is done during the summer months, irrigation of some sort will probably be necessary.
- b) Before seeding, install structural practice controls. Utilize Amoco supergro or equivalent.
- c) The seedbed should be firm with a fairly fine surface. Perform all cultural operations across or at right angles to the slope. A minimum of 2 to 4-inches of tilled topsoil is required. The topsoil must have a sandy loam to silt loam texture with 15% to 20% organic content.
- d) Apply uniformly 2 tons of ground limestone per acre (100 lbs. Per 1,000 sq.ft.) or according to soil test. Apply uniformly 10-10-10 analysis fertilizer at the rate of 400 lbs. per acre (14 lbs. per 1,000 sq.ft.) or as indicated by soil test. Forty percent of the nitrogen should be in organic form. Work in lime and fertilizer to a depth of 4-inches using any suitable equipment.
- e) Select the appropriate seed species for temporary cover from the following table.

Species	Seeding Rate	Seeding Rate	Recommended Seeding	Seed Cover
	(lbs/1,000 sq.ft.)	(lbs/acre)	Dates	required
Annual	1	40	April 1 st to June 1 st	¹ / ₄ inch
Ryegrass			August 15 th to Sept. 15 th	
Foxtail Millet	0.7	30	May 1 st to June 30 th	¹ /2 to ³ /4 inch
Oats	2	80	April 1 st to July 1 st	1 to 1-1/2 inch
			August 15 th to Sept. 15 th	
Winter Rye	3	120	August 15 th to Oct. 15 th	1 to 1-1/2 inch

Apply the seed uniformly by hydroseeding, broadcasting, or by hand.

f) Use an effective mulch, such as clean grain straw; tacked and/or tied with netting to protect seedbed and encourage plant growth.

Temporary Seeding Inspection/Maintenance *

- a) Inspect within 6 weeks of planting to see if stands are adequate. Check for damage within 24 hours of the end to a heavy rainfall, defined as a 2-year storm event (i.e., 3.2 inches of rainfall within a twenty-four hour period). Stands should be uniform and dense. Fertilize, reseed, and mulch damaged and sparse areas immediately. Tack or tie down mulch as necessary.
- b) Seeds should be supplied with adequate moisture. Furnish water as needed, especially in abnormally hot or dry weather. Water application rates should be controlled to prevent runoff.
- 4) <u>Dust Control</u> Dust control will be utilized throughout the entire construction process of the site. For example, keeping disturbed surfaces moist during windy periods will be an effective control measure. The use of dust control will prevent the movement of soil to offsite areas. However, care must be taken to not create runoff from excessive use of water to control dust. The following are methods of Dust Control that may be used on-site:
 - Vegetative Cover The most practical method for disturbed areas not subject to traffic.
 - Sprinkling The site may be sprinkled until the surface is wet. Sprinkling will be effective for dust control on haul roads and other traffic routes.
 - Stone Stone will be used to stabilize construction entrances; will also be effective for dust control.
- 5) <u>Material Stockpiling</u> Material stockpiles shall be located as far from Wetland Resource Areas as possible and shall never be located within the 100-foot buffer zone as shown on the approved site plans. The preferred location for all stockpiles is at the front of the project locus between the house and Spy Pond Lane.
- 6) <u>Cleaning of Vortechnics Unit:</u> During construction, the contractor is responsible for maintaining silt sacks within the drainage area contributing to the newly installed Vortechnics Unit. The Vortechnics unit will be vacuumed prior to the issuance of a Certificate of Compliance, at which time maintenance responsibilities for the unit will be delegated to the Arlington Department of Public Works.

Post-Construction Stormwater Operation & Maintenance Plan

Site Redevelopment 47 Spy Pond Land (Lot 1/A), Arlington, MA Best Management Practices (BMPs) pursuant to the MA DEP Wetlands Protection Act, Arlington Wetlands Protection Bylaw and accepted design practice have been implemented and utilized for the project. The following information provided is to be used as a guideline for monitoring and maintaining the performance of the drainage facilities constructed as part of the site development. The structural Best Management Practices (BMPs) shall be inspected during rainfall conditions during the first year of operation to verify functionality.

Responsible Party

Homeowner

Town of Arlington Contact Information

Conservation Administrator

Town Hall

730 Massachusetts Avenue Arlington, MA (781) 316 3012

Maintenance:

- 1. <u>Infiltration Systems</u> Subsurface infiltration systems shall be inspected twice per year to verify that sediment is not being discharged into the system and that the system is functioning properly. If sediment depth within the system exceeds three inches, an experienced contractor or designer shall be contacted to consult on methods to clean and remediate the system. Furthermore, at least once per year, the system shall be inspected immediately following a heavy rainfall to ensure that the system drains within 72 hours of the end of said storm. If, after 72 hours, the system is still retaining water, the homeowner shall contact a licensed professional civil engineer to determine a method for remediating the system failure.
- 2. <u>Crushed Stone Infiltration Trench</u> The crushed stone infiltration trench at the edge of the driveway shall be cleaned of debris during regular landscape maintenance. A standard leaf blower can be used to remove debris from the stone surface. If the trench fails to drain after rainfall, the stone shall be removed, washed, and placed back in the trench after the bottom is scarified.
- 3. <u>Pesticides. Herbicides and Fertilizers:</u> Pesticides and herbicides shall not be used on the property. In addition, fertilizers that are used on the property shall be utilized sparingly and should be restricted to the use of organic fertilizers only
- 4. <u>Vortechnics Unit:</u> Maintenance of the unit will be done by the Town of Arlington, Department of Public Works. The unit will be inspected at least twice a year, and vacuumed as necessary to ensure full function of the unit.

Storage and Disposal of Household Waste and Toxics:

This management measure involves educating the general public on the management considerations for hazardous materials. Failure to properly store hazardous materials dramatically increases the probability that they will end up in local waterways. Many people have hazardous chemicals stored throughout their homes, especially in garages and storage^{1 of 223} sheds. Practices such as covering hazardous materials or even storing them properly, can have

dramatic impacts. Property owners are encouraged to support the household hazardous product collection events sponsored by the Town of Arlington.

MADEP has prepared several materials for homeowners on how to properly use and dispose of household hazardous materials:

http://www.mass.gov/dep/recycle/reduce/househol.htm

For consumer questions on household hazardous waste call the following number:

DEP Household Hazardous Waste Hotline 800-343-3420

Vehicle Washing:

This management measure involves educating the general public on the water quality impacts of the outdoor washing of automobiles and how to avoid allowing polluted runoff to enter the storm drain system. Outdoor car washing has the potential to result in high loads of nutrients, metals, and hydrocarbons during dry weather conditions in many watersheds, as the detergent-rich water used to wash the grime off our cars flows down the street and into the storm drain. The following management practices will be encouraged:

- Washing cars on gravel, grass, or other permeable surfaces.
- Blocking off the storm drain during car washing and redirecting wash water onto grass or landscaping to provide filtration.
- Using hoses with nozzles that automatically turn off when left unattended.
- Using only biodegradable soaps.
- Minimize the amounts of soap and water used. Wash cars less frequently.
- Promote use of commercial car wash services.

Landscape Maintenance:

This management measure seeks to control the storm water impacts of landscaping and lawn care practices through education and outreach on methods that reduce nutrient loadings and the amount of storm water runoff generated from lawns. Nutrient loads generated by fertilizer use on suburban lawns can be significant, and recent research has shown that lawns produce more surface runoff than previously thought.

Using proper landscaping techniques can effectively increase the value of a property while benefiting the environment. These practices can benefit the environment by reducing water use; decreasing energy use (because less water pumping and treatment is required); minimizing runoff of storm and irrigation water that transports soils, fertilizers, and pesticides; and creating additional habitat for plants and wildlife. The following lawn and landscaping management practices will be encouraged:

- Mow lawns at the highest recommended height.
- Minimize lawn size and maintain existing native vegetation.

- Collect rainwater for landscaping/gardening needs (rain barrels and cisterns to capture roof runoff).
- Raise public awareness for promoting the water efficient maintenance practices by informing users of water efficient irrigation techniques and other innovative approaches to water conservation.
- Abide by water restrictions and other conservation measures implemented by the Town of Arlington.
- Water only when necessary.
- Use automatic irrigation systems to reduce water use.



Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

epartment of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor

> Matthew A. Beaton Secretary Martin Suuberg

Martin Suuberg Commissioner

Seaver Construction c/o Ms. Mary Trudeau 141 Lowell Street

Lexington, MA 02420

December 29, 2016

RE: WETLANDS/ARLINGTON DEP File #091-0275 47 Spy Pond Lane (Lot B) Superseding Order of Conditions/Approval

94 of 223

Dear Mr. Seaver:

reasons MassDEP has deemed necessary to protect the statutory interests identified in the issuing the enclosed Superseding Order of Conditions ("SOC") allowing the project based upon: Massachusetts Department of Environmental Protection, Wetlands Program ("MassDEP") Massachusetts General Laws, Chapter 131, Section 40, the Northeast Regional Office of the 1) information and plans submitted; 2) information gathered during the site inspection; and 3) Wetlands Protection Act and Regulations. Following an in-depth review of the file referenced above, and in accordance with), is

described in the Notice of Intent ("NOI"), the proposed project entails the subdivision of the property into two lots, Lot A and Lot B. This SOC pertains to the work proposed on Lot B construction of a new single-family home, deck, driveway, infiltration basin and plantings along Spy Pond. An existing single family home, driveway and patio currently exist on the site. As the edge of Spy Pond. which involves the removal of the existing single-family home, driveway and patio and The project site is located at 47 Spy Pond Lane in Arlington, Massachusetts and abuts

issued an Order of Conditions ("OOC") denying the project based on its opinion that the planting clearly within the standards set for work within one hundred feet of jurisdictional wetlands, and protection needed within the 100-foot setback to protect the interests identified in M.G.L. c. 131, no alteration of jurisdictional resource areas are proposed in the Notice of Intent application." 40." You filed an appeal on November 7, 2015 based on your opinion that the "work proposed is Vegetated Wetlands 10.55, Bank 10.54, Land Under Water 10.56, especially the level of "not address the underlying failure to comply with the performance standards for Bordering plan, located within an area of lawn within the buffer zone and along the edge of Spy Pond, does On October 26, 2016, the Arlington Conservation Commission (the "Commission"

This information is available in alternate format. Call the MassDEP Diversity Office at 617-556-1139. TTY# MassRelay Service 1-800-439-2370 MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

On December 14, 2016, MassDEP conducted a site inspection. In attendance were your representative, the property owner and members of the Commission. During the site visit, the proposed project was discussed and the group walked the project site to observe existing site conditions and the location of the proposed development.

These areas are significant to the statutory interests listed on the attached form. The site is also designated as Priority Habitat for rare and endangered species. A letter, dated July 8, 2016, from the Division of Fisheries and Wildlife (the "Division") states that it is the Division's "BVW"), Inland Bank, Land Under Water ("LUW") and Bordering Land Subject to Flooding MassDEP's review of the file and site inspection confirms that the project site contains opinion that the project will not adversely affect the actual habitat of the state-protected rare wildlife species and will not result in a prohibited "take" of state listed rare wildlife species. the following Areas Subject to Protection under the Act: Bordering Vegetated Wetlands ŕ"BLSF").

will be scattered within the buffer zone between the proposed home and Spy Pond. The planting These structures are proposed approximately 70 feet from the A small section of the proposed house and the deck will be located within the buffer zone plan for both areas is shown on the project plan titled, "Planting Plan in Arlington, Mass," dated August 16, 2016, final revision date of September 26, 2016. closest wetland resource area. The remainder of the house and driveway will be located outside jurisdiction of the Wetlands Protection Act. An area of the existing lawn adjacent to Spy Pond vegetation in order to restore the BVW. Plantings consisting of native and indigenous species was determined to be BVW. The applicant has proposed replanting this area with wetland to BVW, Inland Bank and LUW.

these findings, please consult the language in the Order that specifies your rights and procedures However, MassDEP reserves the right, should there be further proceedings in this case, to raise additional issues and present further evidence as may be appropriate. Should any party dispute site inspection, it is MassDEP's opinion that the project will not impact wetland resource areas. Based on a review of the information provided in the file and observations made at the interests of the Act, Massachusetts General Laws, Chapter 131, Section 40. Please be advised It is MassDEP's opinion that the enclosed SOC allowing the project serves to protect the that it is MassDEP's responsibility to address only those interests identified in the Act. for appeal.

95 of 223

Should you have any questions, please contact Jill Provencal at (978) 694-3250.

Sincerely,

Rachel -

Rachel Freed Deputy Regional Director Bureau of Water Resources – NERO

Wetlands Program - NERO Environmental Analyst

cc: Arlington Conservation Commission, Town Hall Annex, 730 Massachusetts Ave., Arlington, MA 02476 Mr. Harold Boucher, Trustee, Boucher Family Trust, 47 Spy Pond Lane, Arlington, MA 02476

.

97 of 223

Superseding Order of Conditions • P	
nditions • Page 1 of 15	

Formatted for Registry of Deeds	soc.doc - 4/22/2015
Deeds	

Lati		Ċī	4.		မ္	2. 1.	<u>></u>	
Latitude and Longitude, if known:	<u>47 Spy Pond Lane – Lot B</u> a. Street Address <u>12</u> c. Assessors Map/Plat Number	47 Spy Pond Lane d. Mailing Address Line 1 Arlington e. City/Town Project Location:	Property Owner (if different from applicant): Harold a. First Name Boucher Family Trust c. Organization	c. Organization 215 Lexington Street d. Mailing Address Line 1 Woburn e. City/Town	To: Applicant: Scott Seaver a. First Name, Last Name	From: Northeast Regio Massachusetts Depa This issuance is for (check one):	General Information	
ongitude, i	ond Lane – dress s Map/Plat Nu	Idress Line 1	Owner (if di e <u>e</u> <u>e</u> <u>e</u> <u>e</u> <u>e</u> <u>ion</u>	on gton Street Idress Line 1	;, Last Name	North Massa nce is for (l Inforn	Massach Bureau o Supers Massach
f known:	Lot B mber		ferent from			Northeast Regional Office Massachusetts Department of E for (check one): a. X b	nation	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
·			applicant)			nal Office artment of I a. ⊠ b. □		oartment c Protection der of Co ands Prote
Ģ						vironmental I Supersedin Vmended S		of Environ – Wetland ondition ection Act I
e. Latitude	Arlington b. City/Town 4-2 d. Parcel/Lot Number	MA f. State	Boucher, Trustee b. Last Name	MA f. State	Seaver Construction b. Company	Protection (N 1g Order of Supersedir		mental Pr ls Progran s M.G.L. c. 1
	Number		Frustee		onstruction	Northeast Regional Office Massachusetts Department of Environmental Protection (MassDEP/the Department) for (check one): a. Superseding Order of Conditions b. Amended Superseding Order of Conditions	-	n 31, §40
f. La		9				Department) S Conditions		09 [°]
f. Latitude		02474 g. Zip Code		01801 g. Zip Code				MassDEP File # 091-0275
								#

98 of 223

			Massachusetts De Bureau of Resource Superseding O r Massachusetts Wetl	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	mental Protection ls Program S M.G.L. c. 131, §40	n MassDEP File # 0 091-0275	#
	A	A. General	General Information (cont ^t d)	cont'd)			
	Ö		corded at the Registr	y of Deeds (attach ad	lditional informatic	Property recorded at the Registry of Deeds (attach additional information if more than one parcel):	el):
		Middlesex a. County 31315			b. Certificate 438	b. Certificate (if registered land) 438	
	7.	c. Book Dates:	June 1, 2016 a. Date NOI Received	October 6, 2016 b. Date Local Order	d. Page October 6, 2016 b. Date Local Order Issued	December 14, 2016 c. Date of SOC Site Visit	
	σ	Final Appro	wed Plans and Other	Documents (attach a	dditional plans or	Final Approved Plans and Other Documents (attach additional plans or document references):	
		"Proposed I a. Plan Title	"Proposed Plan in Arlington, MA" a. Plan Title	R			
		<u>Keenan Survey</u> b. Prepared By May 3, 2016	rvey ß	<u>ے مار </u>	James Richard Keenan, c. Signed and Stamped By 1" = 10'	enan, P.L.S. No. 30751 i By	
		d. Final Revision Date See Condition #20	ion Date ion #20	D	e. Scale		
		f. Additional PI	f. Additional Plan or Document Title			g. Date	
	ы.	. Findings	S				
		Findings pu referenced ∣ finds that th Protection A	Findings pursuant to the Massachu referenced Notice of Intent and bas finds that the areas in which work is Protection Act. Check all that apply	chusetts Wetlands Prc based on the informati K is proposed is signif ply:	otection Act - Follc ion provided in thi icant to the follow	Findings pursuant to the Massachusetts Wetlands Protection Act - Following the review of the above- referenced Notice of Intent and based on the information provided in this application, the Department finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act. Check all that apply:	lbove- tment ands
99 (a. 🛛 Pub	Public Water Supply	b. Land Containing Shellfish	ling Shellfish c.	Prevention of Pollution	ution
of 223		d. 🛛 Priv	Private Water Supply	e. 🛛 Fisheries	ij	Protection of Wildlife Habitat	life
		g. 🛛 Gro	Groundwater Supply	h. 🛛 Storm Damaç	Storm Damage Prevention i.	K Flood Control	
	5	This Departr	ment hereby finds the	This Department hereby finds the project, as proposed, is (check one):	s (check one):		
		Approved subject to:	subject to:				
	່ຫ	the follo forth in t accorda other sp or differ these cc	the following conditions which forth in the wetlands regulatio accordance with the Notice of other special conditions attac or differ from the plans, speci these conditions shall control	th are necessary in ac ons. The Department of Intent referenced at ched to this Order. To ifications, or other pro I.	cordance with the orders that all wo bove, the following the extent that th posals submitted	the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. The Department orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.	set id any odify
			· · ·				

ł

*

1

.

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 2 of 15

ording c. cubic feet f. cubic feet g. cubic feet g. cubic feet h. oubic feet a. square feet b. square feet c. cubic feet e. cubic feet f. cubic feet f. cubic feet a. total sq. feet b. total sq. feet e. cubic feet e. cubic feet f. cubic feet c. square feet b. total sq. feet d. square feet e. square feet f. square feet g. square feet h. square feet i. square feet i. square feet j. square feet c. check all that apply below. (For Approvals Only) j. square feet j. square feet j. square feet st distance between limit of project disturbance and a. linear feet a. linear feet a. linear feet dicate size under Land Under the Ocean, below Proposed Proposed Permitted Permitted a. square feet b. square feet b. square feet Permitted Permitted a. square feet b. square feet c. c/y dredged d. c/y dredged Permitted size under Coastal Beaches and/or Coastal Dunes below. size under Coastal Beaches and/or Coastal Dunes below. size under Coastal Beaches and/or Coastal Dunes below. <th>under Land Under the Proposed Permit Alteration Alterat c. c/y dredged d. c/y d Coastal Beaches and/</th> <th>12. Land Under the Ocean Alteration Permitted Proposed Alteration Replacement Final Alteration Final Al</th>	under Land Under the Proposed Permit Alteration Alterat c. c/y dredged d. c/y d Coastal Beaches and/	12. Land Under the Ocean Alteration Permitted Proposed Alteration Replacement Final Alteration Final Al
below.	der Land Under the posed Permit aration Alterat square feet <u>b. squa</u> c/y dredged <u>d. c/y d</u> pastal Beaches and/	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	der Land Under the posed Permit eration Alterat square feet b. squa	Land Under the Ocean
ent $e_{p} = \begin{bmatrix} a \\ b \\ c \\ c$	der Land Under the posed Permit pration Alterat	F Land Under the Ocean
ent et ti ti ti	der Land Under the posed Permit eration Alterat	Prc
	der Land Under the	
		11. Designated Port Areas - Indicate size under Land Under the Ocean, below
eet t	atwaan limit of proje	10. ☐ Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
cubic feet g. cubic feet h. . square feet e. cubic feet f. . total sq. feet e. square feet f. . square feet e. square feet f. . square feet i. square feet j.	at apply below. (For	Coastal Resource Area Impacts: Check all that
cubic feet g. cubic feet h. square feet e. cubic feet f. . total sq. feet e. square feet f.	g. square feet h. squar	Sq feet between 100-200 feet
cubic feet g. cubic feet square feet e. cubic feet cubic feet e. cubic feet	square feet d. squar	ç.
cubic feet g. cubic feet square feet e. cubic feet	a. total sq. feet b. total s	
cubic feet g. cubic feet square feet	cubic feet d. cubic	Cubic Feet Flood Storage
cubic feet g. cubic feet	a. square feet b. square	8. Isolated Land Subject to Flooding a.s
	e. cubic feet f. cubic f	
b. square feet c. square feet d. square feet	square feet b. square	<u>ب</u>
f. c/y dredged	c/y dredged f. c/y dre	<u>o</u>
b. square feet c. square feet d. square feet	square feet b. square	6. Land Under Waterbodies and
b. square feet c. square feet d. square feet	square feet b. square	5. Bordering Vegetated Wetland a. so
b. linear feet c. linear feet d. linear feet		
Permitted Proposed Permitted Alteration Replacement Replacement	Proposed Permitte Alteration Alteratio	Prop Resource Area Alter
w. (For Approvals Only) nit of project disturbance and <u>a. linear feet</u>	pply below. (For Ap stween limit of projec	 Inland Resource Area Impacts: Check all that apply below. (For Approvals Only) Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
		B. Findings (cont'd)
ental Protection MassDEP File # Program G.L. c. 131, §40 091-0275	Environmental Prot Wetlands Program I ditions on Act M.G.L. c. 131	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

•

100 of 223

otection MassDEP File #	31, §40 091-0275			e feet c. c/y d. c/y nourish.	e feet c. c/y d. c/y nourish.	feet	e feet	e feet c. square d. square feet	e feet	paged	e feet c. square d. square feet	_and Under the Ocean, and/or	dged	feet	. feet	feet e square f square feet	feet i. square j. square feet	letlands Protection Act
Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program	Superseaing Orger of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40			a. square feet b. square feet	a. square feet b. square feet	a. linear feet b. linear feet	a. square feet b. square feet	a. square feet b. square feet	a. square feet b. square feet	c. c/y dredged d. c/y dredged	a. square feet b. square feet	Coastal Banks, inland Bank, I nd Waterways, above	a. c/y dredged b. c/y dredged	a. square feet b. square feet	a. total sq. feet b. total sq. feet	c. square feet d. square feet	g. square feet h. square feet	er Massachusetts M
Massachusetts Depar Bureau of Resource Pr	Massachusetts Wetlands Protection Act M.	B. Findings (cont'd)	14. 🔲 Coastal Beaches	15. 🗌 Coastal Dunes	16. T Coastal Banks			19. The Tand Under Salt Ponds		20. 🔲 Land Containing Shellfish)	21.	22 T I and Subject to Control Street] [23. 🗌 Riverfront area	Sq feet hetween 100-200 feet		C. General Conditions Under Massachusetts Wetlands Protection Act

Brief Project Description of Permitted Activities:

101 of 223

The construction of a single-family home, driveway, grading, retaining wall, infiltration basin, deck and plantings.

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions

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

091-0275

MassDEP File

#

ဂ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

(only applicable to approved projects

- <u>-</u> Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- 2 injury to private property or invasion of private rights. The Order does not grant any property rights or any exclusive privileges; it does not authorize any
- ω This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

102 of 223

- 4 unless either of the following apply: The work authorized hereunder shall be completed within three years from the date of this Order
- ß the work is a maintenance dredging project as provided for in the Act; or
- σ years, the extension date and the special circumstances warranting the extended time period are than five years, from the date of issuance. If this Order is intended to be valid for more than three the time for completion has been extended to a specified date more than three years, but less set forth as a special condition in this Order.
- ċη This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
- တ Order of Conditions does not extend the issuance date of the original Final Order of Conditions and If this Order constitutes an Amended Superseding Order of Conditions, this Amended Superseding Superseding Order will expire on unless extended in writing by the Department. l the
- 7 rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse
- œ This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
- ဖ of the affected property. In the case of recorded land, the Final Order shall also be noted in the be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title No work shall be undertaken until the Order has become final and then has been recorded in the must be stamped by the Registry of Deeds, prior to the commencement of work. information shall be submitted to the Department on the form at the end of this Order, which form Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to
- 10 size A sign shall be displayed at the site not less than two square feet or more than three square feet in bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MA DEP"]

"File Number 091-0275

MassDEP File # 091-0275	ion Act (cont.) uperseding Order, the arings before DEP.	equest for Certificate of	order.	oplicant to inquire of the filing of a new Notice of	t of Environmental der at reasonable hours lire the submittal of any that evaluation.	r in control of the ig work conditioned by	ing Vegetated Wetland, marked by wooden intained until a	I areas-have-been-fully sisted in a wetland or ct the erosion controls plicant shall immediately notify the iage prevention controls k unless another limit of	UIREMENTS	subject to the mwater Standards,	<pre>!lopment, shall be and erosion and ition Plan required by rmit as required by ation control measures fully stabilized.</pre>	
nvironmental Protection Vetlands Program ditions on Act M.G.L. c. 131, §40	isetts Wetlands Protect ction is requested to issue a S Il agency proceedings and he	the applicant shall submit a F t of Environmental Protection.	al conditions referenced in this	#13 above shall require the a gnificant enough to require the	mmission and the Departmen bect the area subject to this O ed in this Order, and may requision or Department for	cessor in interest or successo actor or other person performi	lves work adjacent to a Borde e proposed work area shall be boundary markers shall be ma he Department.	n good repair until all disturbe o time shall sediments be depo or his/her designee shall inspe sediments as needed. The a sediments ar needed. The a sediments ar needed and a scur at the site and shall also additional erosion and/or dan shall serve as the limit of wor	L AND MAINTENANCE REQ	roject") is (₁)	eparation, land disturbance, construction and redevelopment, shall be the with the construction period pollution prevention and erosion and in and, if applicable, the Stormwater Pollution Prevention Plan required by scharge Elimination System Construction General Permit as required by Construction period erosion, sedimentation and pollution control measures actices (BMPs) shall remain in place until the site is fully stabilized.	•
Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	C. General Conditions Under Massachusetts Wetlands Protection Act (cont.) 11. Where the Department of Environmental Protection is requested to issue a Superseding Order, Conservation Commission shall be a party to all agency proceedings and hearings before DEP.	Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Department of Environmental Protection.	The work shall conform to the plans and special conditions referenced in this order.	Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Department in writing whether the change is significant enough to require the filing of a new Notice of Intent.	The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.	This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.	Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Department.	All sedimentation barriers shall be maintained in good repair until all disturbed areas-have been-fully- stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Department, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.	NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS	The work associated with this Order (the "Project") is $(1) \square$ is not $(2) \boxtimes$ subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:	All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measure and best management practices (BMPs) shall remain in place until the site is fully stabilized.	•
	C. General C 11. Where the E Conservatio	12. Upon compl Compliance	13. The work sh	14. Any change Department Intent.	15. The Agent o Protection sl to evaluate o data deeme	16. This Order c property sub this Order.	17. Prior to the s the boundary stakes or fla Certificate of	18. All sediment stabilized wit water body. on a daily ba immediately Department, it may deem work line has	NOTI	19. The work as Massachuse then the pro	 a) All work, including site primplemented in accordan sedimentation control pla the National Pollution Dis Stormwater Condition 8. 	
								103 of 223				

Superseding Order of Conditions • Page 6 of 15

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Department of Environmental Protection

091-0275

MassDEP File

#

ဂ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

g No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until Registered Professional Engineer provides a Certification that: മ

prepared for post construction operation, including removal of all construction period sediment operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned the Certification. For any construction period BMPs intended to be converted to post construction trapped in inlet and outlet control structures; all construction period BMPs have been removed or will be removed by a date certain specified in Q

as-built final construction BMP plans are included, signed and stamped by a Registered

Professional Engineer, certifying the site is fully stabilized; *iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;

planting plans) approved by the issuing authority, and have been inspected to ensure that they are iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all

not damaged and that they are in proper working condition; *v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion

- <u></u> following: *i*.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii*.) the future responsible parties shall be notified in writing of their ongoing legal Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMPs Operation and Maintenance Plan ("O&M Plan") and certifying the responsibility to operate and maintain the stormwater management BMPs and implement the 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of The landowner is responsible for BMP maintenance until the issuing authority is notified that another Stormwater Pollution Prevention Plan.
- ٩ Post-construction pollution prevention and source control shall be implemented in accordance with System Multi-Sector General Permit. the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination
- ⊕ maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that Unless and until another party accepts responsibility, the landowner, or owner of any drainage plan and easement deed that grants the responsible party access to perform the required operation and acceptable to the issuing authority, evidencing that another entity has accepted responsibility for landowner of the property must submit to the issuing authority a legally binding agreement of record, easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the and maintenance must be submitted along with the legally binding agreement. Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. BMP. Any failure of the proposed responsible party to implement the requirements of Conditions ⊳
- Ţ plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook The responsible party shall operate and maintain all stormwater BMPs in accordance with the design

Be abo con abo con site abo con abo con abo con abo con abo con con con con con con con con con co	Massachusetts Department of Environmental Protection Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program MassDEP File # Superseding Order of Conditions 091-0275 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 091-0275	General Conditions Under Massachusetts Wetlands Protection Act (cont.)	 responsible party shall: Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location); Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements 	for each BMP established in the O&M Plan approved by the issuing authority. All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.	Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited. The stormwater management system approved in the Order of Conditions shall not be changed	Areas designated in the MassDEP Stormwater in the Bride of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Mander Volume 3, Chapter 1, Low Impact Development Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credit)	Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.	Special Conditions (See attached sheet(s) or below for additional Special Conditions numbered <u>20</u> through 38. See attached				soc.doc – 4/22/2015 Superseding Order of Conditions • Page 8 of 15
		. Genera	The res 1. 3.	All sedir accorda	Illicit dis The stor	without the such without the without the second sec	Access i construc above gi	Special number			•)c.doc – 4/22

der, and	Y []
shall require the fassDEP in writing e same time to the the applicant shall be have the right to enter	26. Any proposed or executed change in the plans approved under this Superseding Order shall require the applicant to file a new Notice of Intent with the conservation commission or to inquire of MassDEP in writing whether the change is substantial enough to require a new filing. A copy shall be sent at the same time to the Arlington Conservation Commission. Any errors in the plans or information submitted by the applicant shall be considered changes and the above procedures shall be followed. 27. Members and agents of MassDEP and the Arlington Conservation Commission shall have the right to enter
er party	25. This Superseding Order shall apply to any successor or assigns in interest or control and any other party engaging in activity on the property identified in the Notice of Intent.
r of la the form	24. No work shall commence on-site until all appeal periods have elapsed and this Superseding Order of Conditions has been recorded with the Registry of Deeds and MassDEP has been formally notified via the form provided at the end of this Order.
all be prs, all	23. A copy of this Superseding Order as well as the plans and reports referenced in Condition #20 shall be available on site while activities regulated by this Order are being performed. In addition to the owners, all contractors and subcontractors shall be held responsible for compliance with this Superseding Order.
de any	22. A copy of this Superseding Order shall be included in all construction contracts and shall supersede any conflicting requirements.
75. All rrwise nall	21. This Superseding Order supersedes all previous Orders issued for this project, DEP File #091-0275. A work shall conform to the Notice of Intent and plans and documentation referenced above unless otherwise specified in this Superseding Order. In case of a conflict, the Conditions of this Superseding Order shall prevail.
ពាំព្ល ព្រំ 106	d) "Roof Drain Detail, 47 Spy Pond Lane, Lot 2, Arlington, MA," prepared by Alan Engineering, L.L.C., dated June 28, 2016.
nber 26, 22	c) "Planting Plan in Arlington, Mass," prepared by Keenan Survey, final revision date September 26, So 2016
B),	 a) "Proposed Land in Arlington, Mass," prepared by Keenan Survey, stamped by James Richard Keenan, P.L.S., final revision date May 3, 2016. b) "Post Construction Stormwater Operation and Maintenance Plan, 47 Spy Pond Lane (Lot B), Arlington MA"
	20. All work shall conform with the following plans, reports and special conditions:
	Special Conditions
	SUPERSEDING ORDER OF CONDITIONS DEP File Number 091-0275

.

28. The applicant shall employ a wetland professional to oversee all plantings proposed within the BVW buffer zone and report in writing to MassDEP and the Arlington Conservation Commission once a month, during construction, to confirm that all activities are in compliance with the planting plan (referenced in Condition #20). The report shall, at a minimum, include a description of the relative health of the planted species and shall make recommendations for replacement of plants if needed.	all plantings proposed within the BVW and conservation Commission once a month, a with the planting plan (referenced in tion of the relative health of the planted s if needed.
29. Any changes proposed to the plants listed in the planting plan (referenced in Condition #20) shall be reviewed and approved by MassDEP prior to placement.	(referenced in Condition #20) shall be
30. Prior to the start of work, the applicant shall submit a construction sequence to MassDEP and the Arlington Conservation Commission, for approval by MassDEP. The construction sequence shall include a plan showing the location of any material stockpile areas and any temporary, construction period, stormwater BMPs.	of work, the applicant shall submit a construction sequence to MassDEP and the Arlington ission, for approval by MassDEP. The construction sequence shall include a plan showing aterial stockpile areas and any temporary, construction period, stormwater BMPs.
31. Prior to the start of work, erosion controls consisting of silt fence and staked haybales shall be installed between the limits of work and the wetland resource areas. These barriers shall serve as the limit of disturbance and shall be installed as close to the work area as possible. Erosion controls shall remain in place until MassDEP approves their removal. If work occurs during the winter months, the applicant shall install orange snow fencing along the erosion control line in order to provide a more visible barrier.	ice and staked haybales shall be installed barriers shall serve as the limit of disturbance in controls shall remain in place until er months, the applicant shall install orange nore visible barrier.
32. No soil or other materials shall be stockpiled within 100 feet of wetland resource areas	f wetland resource areas.
33. Upon completion of construction, all exposed soils shall be seeded with appropriate vegetation or otherwise stabilized by a method acceptable to the MassDEP and Arlington Conservation Commission.	eded with appropriate vegetation or otherwise Conservation Commission.
34. At no time during or after construction shall fill or other materials be placed, slump into or fall beyond the limit of grading as shown on the plan. The Environmental Monitor shall be responsible for inspecting and maintaining all slopes and shall immediately notify the MassDEP and the Arlington Conservation Commission if slumping, erosion-or-encroachment occurs.	g or after construction shall fill or other materials be placed, slump into or fall beyond the nown on the plan. The Environmental Monitor shall be responsible for inspecting and is and shall immediately notify the MassDEP and the Arlington Conservation Commission or encroachment occurs.
35. Excess soil, rock and debris excavated or generated during the course of this project shall be removed from the site and disposed of in a legal manner. Records of the destination of all materials, including excess fill and domn, to be removed from the site shall be kept on file and shall be provided to the MassDEP and the Arlington conservation Commission upon request.	and debris excavated or generated during the course of this project shall be removed from of in a legal manner. Records of the destination of all materials, including excess fill and from the site shall be kept on file and shall be provided to the MassDEP and the Arlington ission upon request.
36. Storing, servicing or cleaning of equipment, including but not limited to fueling, changing, adding or applying lubricants or hydraulic fluids, or washing/rinsing of trucks or equipment, shall be performed outside the 100-foot buffer zone.	limited to fueling, changing, adding or s or equipment, shall be performed outside
37. During work on this project, there shall be no discharge or spillage of fuel, oil or other pollutants, including sediments, onto any part of the site. The applicant shall take all reasonable precautions to prevent the release of pollutants by ignorance, accident or vandalism.	llage of fuel, oil or other pollutants, including asonable precautions to prevent the release of
38. Upon completion of the project, the applicant shall request a Certificate of Compliance from the MassDEP and shall submit the following information with the request:	certificate of Compliance from the MassDEP
soc.doc – 4/22/2015 Formatted for Registry of Deeds	Superseding Order of Conditions • Page 14 of 15

æ A written statement by a professional engineer or land surveyor registered in the Commonwealth of Order of Conditions and setting forth deviations, if any exist; Massachusetts certifying compliance with the approved plans referenced above and this Superseding

- ઉ An as-built site plan prepared by a registered land surveyor or registered professional engineer showing stormwater BMP, and site grading on the project site. location and grades of the project, including but not limited to: the single-family home, deck, driveway,
- C A final plan and report showing the location, number and health of the plants shown on the planting plan referenced in Condition #20.

•

109 of 223

							Date	☐ by Har	This Order is it	Northeast MassDEP Regional Office Deputy Regional Director Rachel Freed Deputy Regional Director	lssued by: Ma	This Order is v as a special cc	E. Issuance	To the extr Massachu supersede	D. Finding		X
		•		•		·		by Hand delivery on	This Order is issued to the applicant as follows:	Northeast MassDEP Regional Office Deputy Regional Director Signature Rachel Freed Deputy Regional Director Printed Name	Issued by: Massachusetts Department of Environmental Protection:	This Order is valid for three years from the date of issuance, unless otherwise specified as a special condition pursuant to General Conditions # 4 or # 6.	Ce	To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no jurisdiction to supersede the local by-law order.	Findings Under Municipal Wetlands Bylaw or Ordinance	Massachusetts V	Massachusetts Bureau of Resou
			·						ant as follows:	ame	epartment of E	s from the date of i o General Conditio		s based on a muni stection Act or regunder.	nicipal Wetla	Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions
		·					1公・2名・1し Date - Certified Mail #	by certified mail on:		$\frac{12 \left(\frac{29}{23} \right) / \frac{29}{230}}{\text{Date}}$	Environmental	ssuance, unless o ns # 4 or # 6.		icipal bylaw or ord ulations, the Depa	ands Bylaw	n Act M.G.L. c. 13	ivironmental Pro /etlands Program /ifions
							<u> この・1ん</u> ertified Mail #	ied mail on:		2014	Protection	therwise speci		inance, and no tment has no	or Ordina	1, §40	tection
-	· · · ·										Ξ	ified		ot on the jurisdiction to	nce	091-0275	MassDEP File #
																	e#

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 9 of 15

.

× .

5

Massachusetts Department of Environmental ProtectionMassDEP File #Bureau of Resource Protection – Wetlands ProgramMassDEP File #Superseding Order of Conditions091-0275Massachusetts Wetlands Protection Act M.G.L. c. 131, §40091-0275	F. Appeal Rights and Time Limits	The applicant, the landowner, the conservation commission, any person aggrieved by the Superseding Order, Determination or other Reviewable Decision as defined at 310 CMR 10.04, who previously participated in the proceedings leading to this Reviewable Decision, the conservation commission, or any ten (10) residents of the city or town where the land is located if at least one resident was previously a participant in the permit proceeding, are hereby notified of their right to appeal this Reviewable Decision pursuant to M.G.L. c.30A, § 10, provided the request is made by certified mail or hand delivery to the Department, along with the appropriate filing fee and a MassDEP Fee Transmittal Form within ten (10) business days of the date of issuance of this Superseding Order or Determination, and addressed to:	Case Administrator Office of Appeals and Dispute Resolution Massachusetts Department of Environmental Protection One Winter Street, 2 nd Floor Boston, MA 02108	A copy of the request (hereinafter also referred to as Appeal Notice) shall at the same time be sent by certified mail or hand delivery to the Conservation Commission, the applicant, the person that requested the Superseding Order or Determination, and the issuing office of the MassDEP at:	MassDEP – Northeast Region Wetlands Program 205B Lowell Street Wilmington, MA 01887	In the event that a ten-resident group requested the Superseding Order or Determination, the Appeal Notice shall be served on the designated representative of the ten resident group, whose name and contact information is included in this Reviewable Decision (when relevant).	Contents of Appeal Notice	An Appeal Notice shall comply with the Department's Rules for Adjudicatory Proceedings, 310 CMR 1.01(6) and 310 CMR 10.05(7)(j), and shall contain the following information: a) the MassDEP Wetlands File Number, name of the applicant, landowner if different from applicant, and address of the protect:	b) the complete name, mailing address, email address, and fax and telephone numbers of the party filing the Appeal Notice; if represented by consultant or counsel, the name, fax and telephone numbers, email address, and mailing address of the representative; if a ten residents group, the same information for the group's designated representative;	c) if the Appeal Notice is filed by a ten (10) resident group, then a demonstration of participation by at least one resident in the previous proceedings that led to this Reviewable Decision;	d) if the Appeal Notice is filed by an aggrieved person, then a demonstration of participation in the previous proceeding that lead to this Reviewable Decision and sufficient written facts to demonstrate status as a person aggrieved;	e) the names, telephone and fax numbers, email addresses, and mailing addresses of all other interested parties, if known;	
							111	of 223				• • •	

1

-

`

1

Superseding Order of Conditions • Page 10 of 15

soc.doc – 4/22/2015 Formatted for Registry of Deeds



Superseding Order of Conditions Bureau of Resource Protection – Wetlands Program Massachusetts Department of Environmental Protection

MassDEP File #

091-0275

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

Π. Appeal Rights and Time Limits (cont.)

- Ĵ protection of the interests identified in the Wetlands Protection Act, M.G.L. c.131, § 40, including reference to the statutory or regulatory provisions that the party filing the Appeal Notice alleges has been violated by the Department's Decision, and the relief sought, including any specific desired changes to the Department's decision; how each alleged error in inconsistent with 310 CMR 10.00 and does not contribute to the a clear and concise statement of the alleged errors contained in the Department's decision and
- g a copy of the Department's Reviewable Decision that is being appealed and a copy of the underlying Conservation Commission decision if the Reviewable Decision affirms the Conservation Commission decision;
- ટ applicant and the conservation commission; and a statement that a copy of the request has been sent by certified mail or hand delivery to the
- Ü if asserting a matter that is Major and Complex, as defined at 310 CMR 10.04(1), a statement requesting that the Presiding Officer make a designation of Major and Complex, with specific reasons supporting the request.

Filing Fee and Address

A copy of the Appeal Notice along with a MassDEP Fee Transmittal Form and a valid check or money order payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) must be mailed to:

Department of Environmental Protection Commonwealth of Massachusetts Commonwealth Master Lockbox Boston, Massachusetts 02211 Р.О. Box 4062

waiver. The filing fee is not required if the appellant is a city or town (or municipal agency), county, district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department the hearing request as provided above affidavit setting forth the facts believed to support the claim of undue financial hardship together with that paying the fee will create an undue financial hardship. A person seeking a waiver must file an may waive the adjudicatory hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a

MassDEP File # 091-0275 of Deeds or the Land Court affected property. In the case antor Index under the name and, this Order shall also be ect to the Order of the Department.	Regional Office				Page											
Massachusetts Department of Environmental Protection MassDEP File # Bureau of Resource Protection – Wetlands Program MassDEP File # Bureau of Resource Protection – Wetlands Protection MassDEP File # Superseding Order of Conditions 091-0275 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 091-0275 Recording Information 091-0275 This Superseding Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Department.	Massachusetts Department of Environmental Protection Northeast Regional Office Issuing Authority 205B Lowell Street, Wilmington, MA 01887 MassDEP Regional Office Address	der of Conditions for the Pr	ne, Lot b U91-U275 eet and Town) MassDEP File Number	Has been recorded at the Registry of Deeds of: Middlesex	Book	Property Owner	and has been noted in the chain of title of the affected property in:	Page	In accordance with the Order of Conditions issued on:	Date If recorded land, the instrument number identifying this transaction is:		If registered land, the document number identifying this transaction is:	Signature of Applicant			
Massachusetts Deparate Deparatement of the Superseding Order of Conditions. The recording information of the recording inf	To: <u>Massachusetts Departm</u> Issuing Authority 205B Lowell Street, Wilming MassDEP Regional Office Address	Please be advised th	Project Location (Street and Town)	Has been record Middlesey	County	For:	and has been no	Book	In accordance wi	Date If recorded land,	Instrument Number	If registered land,	Document Number		•	
									113	3 of 223						

1

÷

.

Superseding Order of Conditions • Page 12 of 15

soc.doc – 4/22/2015 Formatted for Registry of Deeds



Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

epartment of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

Matthew A. Beaton Secretary

Martin Suuberg Commissioner Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor

December 29, 2016

RE: WETLANDS/ARLINGTON DEP File #091-0276 47 Say Pond Lane (Lot A)

47 Spy Pond Lane (Lot A) Superseding Order of Conditions/Approval

Dear Mr. Seaver:

Lexington, MA 02420

Seaver Construction c/o Ms. Mary Trudeau

141 Lowell Street

reasons MassDEP has deemed necessary to protect the statutory interests identified in the issuing the enclosed Superseding Order of Conditions ("SOC") allowing the project based upon: Massachusetts General Laws, Chapter 131, Section 40, the Northeast Regional Office of the 1) information and plans submitted; 2) information gathered during the site inspection; and 3) Massachusetts Department of Environmental Protection, Wetlands Program ("MassDEP"), is Wetlands Protection Act and Regulations. Following an in-depth review of the file referenced above, and in accordance with

which involves the removal of the existing single-family home, driveway and patio and property into two lots, Lot A and Lot B. This SOC pertains to the work proposed on Lot A described in the Notice of Intent ("NOI"), the proposed project entails the subdivision of the Spy Pond. An existing single family home, driveway and patio currently exist on the site. As construction of a new single-family home, deck, driveway, infiltration basin, grading, retaining walls and plantings along the edge of Spy Pond. The project site is located at 47 Spy Pond Lane in Arlington, Massachusetts and abuts

of protection needed within the 100-foot setback to protect the interests identified in M.G.L. c. issued an Order of Conditions ("OOC") denying the project based on their opinion that the proposed is clearly within the standards set for work within one hundred feet of jurisdictional Bordering Vegetated Wetlands 10.55, Bank 10.54, Land Under Water 10.56, especially the level Spy Pond, does "not address the underlying failure to comply with the performance standards for planting plan, located within an area of existing lawn in the buffer zone and along the edge of 131, 40." You filed an appeal on November 7, 2015 based on your opinion that the "work On October 26, 2016, the Arlington Conservation Commission (the "Commission")

This information is available in alternate format. Call the MassDEP Diversity Office at 617-556-1139. TTY# MassRelay Service 1-800-439-2370 MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

wetlands, and no alteration of jurisdictional resource areas are proposed in the Notice of Intent application." On December 14, 2016, MassDEP conducted a site inspection. In attendance were your representative, the property owner and members of the Commission. During the site visit, the proposed project was discussed and the group walked the project site to observe existing site conditions and the location of the proposed development.

The site is also designated as Priority Habitat for rare and endangered species. A letter, dated July 8, 2016, from the Division of Fisheries and Wildlife (the "Division") states that it is the Division's MassDEP's review of the file and site inspection confirms that the project site contains "BVW"), Inland Bank, Land Under Water ("LUW") and Bordering Land Subject to Flooding These areas are significant to the statutory interests listed on the attached form. opinion that the project will not adversely affect the actual habitat of the state-protected rare wildlife species and will not result in a prohibited "take" of state listed rare wildlife species. the following Areas Subject to Protection under the Act: Bordering Vegetated Wetlands "'BLSF").

be located within the buffer zone to BVW, Inland Bank and LUW. These structures and grading are proposed approximately 50 feet from the closest wetland resource area. The remainder of the section of the proposed house, deck, infiltration basin, grading and retaining walls will house, driveway and grading will be located outside jurisdiction of the Wetland Protection Act. Plantings, consisting of native and indigenous species, are proposed to be placed within the existing lawn adjacent to Spy Pond. The planting plan is shown on the project plan titled, "Planting Plan in Arlington, Mass," dated September 26, 2016. ∢

Based on review of the information provided in the file and observations made at the site inspection, it is MassDEP's opinion that the project will not impact wetland resource areas. It is MassDEP's opinion that the enclosed SOC allowing the project-serves to protect the interests of MassDEP reserves the right, should there be further proceedings in this case, to raise additional findings, please consult the language in the Order that specifies your rights and procedures for the Act, Massachusetts General Laws, Chapter 131, Section 40. Please be advised that it is issues and present further evidence as may be appropriate. Should any party dispute these MassDEP's responsibility to address only those interests identified in the Act. However, appeal.

115 of 223

Should you have any questions, please contact Jill Provencal at (978) 694-3250.

Sincerely,

Fachel 7

Rachel Freed Deputy Regional Director Bureau of Water Resources – NERO

Wetlands Program - NERO Erlyironmental Analyst Provenca

cc: Arlington Conservation Commission, Town Hall Annex, 730 Massachusetts Ave., Arlington, MA 02476

Mr. Harold Boucher, Trustee, Boucher Family Trust, 47 Spy Pond Lane, Arlington, MA 02476

117 of 223

7		ſ
	\sim	

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 MassDEP File # 091-0276

General Information From: Northeest Regional Office Tom: Massachusets Department of Environmental Protection (MassDEP/the Department) This issuance is for (check one): a. I Superseding Order of Conditions b. Amended Superseding Order of Conditions b. Amended Superseding Order of Conditions c. Applicant: Seaver Construction 3. Street 2.0 Conganization 2.1 Street 2.1 Seaver Construction 2.1 Maing Address Line 1 Woblum MA 2.1 Street 3. Street 4. Massachusets Line 1 Mobiling Address Line 1 MA 2.1 State 2.1 State 2.1 State 2.1 State 3. State 2.1 State 2.1 State 2.1 Maing Address Line 1 4.1 MA 3.1 Street Address Line 1 4.1 Maing Address Line 1	5	<u>ن</u>		4 .	ယ္	P .→ ►
	Latitude and Longitude, if known:	Project Location: <u>47 Spy Pond Lane – Lot A</u> <u>a. Street Address</u> <u>12</u> c. Assessors Map/Plat Number	Harold a. First Name Boucher Family Trust c. Organization 47 Spy Pond Lane d. Mailing Address Line 1 Arlington e. City/Town	c. Organization 215 Lexington Street d. Mailing Address Line 1 Woburn e. City/Town Property Owner (if different from applicant):	To: Applicant: Scott Seaver a. First Name, Last Name	eral Information Northeast Regional Offic Massachusetts Department of ssuance is for (check one):
		Arlington b. City/Town 4-2 d. Parcel/Lot Number	rustee	ate	Seaver Construction b. Company	tal Protection (MassDEP/the Department) ding Order of Conditions d Superseding Order of Conditions

118 of 223

•

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 2 of 15

ons • Page 3 of 15	Superseding Order of Conditions • Page 3 of 15	Supersedi		soc.doc – 4/22/2015 Formatted for Registry of Deeds
W.	stal Dunes belc	thes and/or Coa	der Coastal Beau	13. ☐ Barrier Beaches - Indicate size under Coastal Beaches and/or Coastal Dunes below
		d. c/y dredged	c. c/y dredged	
	I	b. square feet	a. square feet	12. Land Under the Ocean
Permitted Replacement	Proposed Replacement	Permitted Alteration	Proposed Alteration	
	, below	Inder the Ocean	ize under Land L	11. \square Designated Port Areas - Indicate size under Land Under the Ocean, below
a. linear feet	rbance and	it of project distu	nce between lim	10. ☐ Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
	/als Only)	ow. (For Approv	Check all that apply below. (For Approvals Only)	Coastal Resource Area Impacts: Check
j. square feet	i. square feet	h. square feet	g. square feet	Sq feet between 100-200 reet
f. square feet	e. square feet	d. square feet	c. square feet	Sq feet within 100 feet
		b. total sq. feet	a. total sq. feet	9. 🔲 Riverfront area
f. cubic feet	e. cubic feet	d. cubic feet	c. cubic feet	Cubic Feet Flood Storage
		b. square feet	a. square feet	8. Isolated Land Subject to Flooding
h. cubic feet	g. cubic feet	f. cubic feet	e. cubic feet	Cubic Feet Flood Storage
d. square feet	c. square feet	b. square feet	a. square feet	7. Bordering Land Subject to Flooding
		f. c/y dredged	e. c/y dredged	
d. square feet	c. square feet	b. square feet	a. square feet	 Land Under Waterbodies and Waterways
d. square feet	c. square feet	b. square feet	a. square feet	5. Bordering Vegetated Wetland
d. linear feet	c. linear feet	b. linear feet	a. linear feet	
Permitted Replacement	Proposed Replacement	Permitted Alteration	Proposed Alteration	Resource Area
a. linear feet	s Only) Irbance and	v. (For Approval it of project distu	that apply belov nce between lim	 Inland Resource Area Impacts: Check all that apply below. (For Approvals Only) 3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
				B. Findings (cont'd)
276	091-0276	3.L. c. 131, §40	Order of Conditions Vetlands Protection Act M.C	Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
MassDEP File #		orogram	tion – Wetlands I	

120 of 223

2

-		
	12	-
	K-	
1		

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File #

091-0276

B. Findings (cont'd)

14. 🔲 Coastal Beaches	-			
15. 🗌 Coastal Dunes	a. square feet	b. square feet	c. c/y	d. c/y nourish.
16. 🔲 Coastal Banks	a. square feet	b. square feet	c. c/y	d. c/y nourish.
17. 🔲 Rocky Intertidal Shores	a. linear feet	b. linear feet		
18. 🔲 Salt Marshes	a. square feet	b. square feet		
19. The result of the result	a. square feet	b. square feet	c. square	d. square feet
	a. square feet	b. square feet		
20. 🗍 Land Containing Shellfish	c. c/y dredged	d. c/y dredged		
0	a. square feet	b. square feet	c. square	d. square feet
	-	-	. (:

21.
Fish Runs - Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above

						f. square feet		j. square feet
						e. square		i. square
b. c/y dredged	-	b. square feet		b. total sq. feet		d. square feet		h. square feet
a. c/y dredged		a. square feet		a. total sq. feet		c. square feet		g. square feet
	22. 🔲 Land Subject to Coastal Storm	Flowage	23. 🔲 Riverfront area		Sq feet within 100 feet		Sq feet between 100-200 feet	

121 of 223

C. General Conditions Under Massachusetts Wetlands Protection Act

Brief Project Description of Permitted Activities:

The construction of a single-family home, driveway, grading, retaining wall, infiltration basin, deck and plantings.

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 **Superseding Order of Conditions** Bureau of Resource Protection – Wetlands Program Massachusetts Department of Environmental Protection

> MassDEP File #

091-0276

ဂ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

(only applicable to approved projects)

- <u>-</u> Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- N injury to private property or invasion of private rights. The Order does not grant any property rights or any exclusive privileges; it does not authorize any
- ω This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
- 4 unless either of the following apply: The work authorized hereunder shall be completed within three years from the date of this Order
- the work is a maintenance dredging project as provided for in the Act; or
- ā ā the time for completion has been extended to a specified date more than three years, but less set forth as a special condition in this Order. years, the extension date and the special circumstances warranting the extended time period are than five years, from the date of issuance. If this Order is intended to be valid for more than three
- S This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
- <u>ი</u> Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Superseding Order will expire on _____ unless extended in writing by the Department. If this Order constitutes an Amended Superseding Order of Conditions, this Amended Superseding
- 7 Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing
- ω an appeal has been taken, until all proceedings before the Department have been completed This Order is not final until all administrative appeal periods from this Order have elapsed, or if such
- ဖ information shall be submitted to the Department on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work. be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the No work shall be undertaken until the Order has become final and then has been recorded in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to
- 10 size bearing the words, "Massachusetts Department of Environmental Protection" [or, "MA DEP"] A sign shall be displayed at the site not less then two square feet or more than three square feet in

"File Number 091-0276

ł

Superseding Order of Conditions • Page 6 of 15

soc.doc – 4/22/2015 Formatted for Registry of Deeds

- A

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File #

091-0276

ຸດ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

g No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until ω

operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the the Certification. For any construction period BMPs intended to be converted to post construction prepared for post construction operation, including removal of all construction period sediment MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned Registered Professional Engineer provides a Certification that: all construction period BMPs have been removed or will be removed by a date certain specified Ξ Q

trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;

iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;

planting plans) approved by the issuing authority, and have been inspected to ensure that they are iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all

not damaged and that they are in proper working condition; v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion

- <u></u> Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMPs Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i*.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii*.) the future responsible parties shall be notified in writing of their ongoing legal The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition Stormwater Pollution Prevention Plan. responsibility to operate and maintain the stormwater management BMPs and implement the 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance
- ٩ Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- <u>@</u> Unless and until another party accepts responsibility, the landowner, or owner of any drainage Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. BMP. purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for and acceptable to the issuing authority, evidencing that another entity has accepted responsibility for landowner of the property must submit to the issuing authority a legally binding agreement of record. easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the plan and easement deed that grants the responsible party access to perform the required operation 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or and maintenance must be submitted along with the legally binding agreement. Any failure of the proposed responsible party to implement the requirements of Conditions ≻
- Ŀ The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.

Massachusetts Department of Environmental Protection MassDEP File # Bureau of Resource Protection – Wetlands Program MassDEP File # Superseding Order of Conditions 091-0276 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 091-0276 Conditions Under Massachusetts Wetlands Protection Act (cont.) 091-0276	 The responsible party shall: Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location); Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority. All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations. 	Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited. The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority. Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority. Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing acconstructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.	Special Conditions (See attached sheet(s) or below for additional Special Conditions numbered <u>20</u> through 38. See attached	· · · · · · · · · · · · · · · · · · ·
Massachusetts D Bureau of Resource Superseding C Massachusetts We General Conditions Und	 The responsible party shall: 1. Maintain an operation and mainter of inspections, repairs, maintenance system or any part thereof, and dis material and the disposal location) 2. Make the maintenance log available ("Commission") upon request; and 3. Allow members and agents of the lesite to evaluate and ensure that the for each BMP established in the Oa All sediment or other contaminants remove accordance with all applicable federal, state 	Illicit discharges to the stormwater manage The stormwater management system app without the prior written approval of the is Areas designated as qualifying pervious a (as defined in the MassDEP Stormwater (as defined in the MassDEP Stormwater Site Design Credits) shall not be altered v Site Design Credits) shall not be altered v Site Design Credits) shall not be altered v storess for maintenance, repair, and/or re constructed around stormwater BMPs shi above grade to allow for wildlife passage.	Special Conditions (See attac numbered <u>20</u> through 38. See attached	

28. The applicant shall employ a wetland professional to oversee all plantings proposed within the buffer zone and report in writing to MassDEP and the Arlington Conservation Commission once a month, during	27. Members and agents of MassDEP and the Arlington Conservation Commission shall have the right to enter and inspect the premises to evaluate compliance with the conditions contained in this Superseding Order, and may require the submittal of any data deemed necessary by MassDEP for that evaluation.	26. Any proposed or executed change in the plans approved under this Superseding Order shall require the applicant to file a new Notice of Intent with the conservation commission or to inquire of MassDEP in writing whether the change is substantial enough to require a new filing. A copy shall be sent at the same time to the Arlington Conservation Commission. Any errors in the plans or information submitted by the applicant shall be considered changes and the above procedures shall be followed.	25. This Superseding Order shall apply to any successor or assigns in interest or control and any other party engaging in activity on the property identified in the Notice of Intent.	24. No work shall commence on-site until all appeal periods have elapsed and this Superseding Order of Conditions has been recorded with the Registry of Deeds and MassDEP has been formally notified via the form provided at the end of this Order.	23. A copy of this Superseding Order as well as the plans and reports referenced in Condition #20 shall be available on site while activities regulated by this Order are being performed. In addition to the owners, all contractors and subcontractors shall be held responsible for compliance with this Superseding Order.	22. A copy of this Superseding Order shall be included in all construction contracts and shall supersede any conflicting requirements.	21. This Superseding Order supersedes all previous Orders issued for this project, DEP File#091-0276. All work shall conform to the Notice of Intent and plans and documentation referenced above unless otherwise specified in this Superseding Order. In case of a conflict, the Conditions of this Superseding Order shall prevail.	 a) "Proposed Land in Arlington, Mass," prepared by Keenan Survey, stamped by James Richard Keenan, P.L.S., final revision date September 6, 2016 b) "Post Construction Stormwater Operation and Maintenance Plan, 47 Spy Pond Lane (Lot A), Arlington, MA." c) "Planting Plan in Arlington, Mass," prepared by Keenan Survey, final revision date September 26, 50 2016. 	20. All work shall conform with the following plans, reports and special conditions:	Special Conditions	SUPERSEDING ORDER OF CONDITIONS DEP File Number <u>091-0276</u>
--	---	--	--	---	--	--	--	--	--	--------------------	--

	construction, to confirm that all activities are in compliance with the planting plan (referenced in Condition #20). The report shall, at a minimum, include a description of the relative health of the planted species and shall make recommendations for replacement of plants if needed.
	29. Any changes proposed to the plants listed in the planting plan (referenced in Condition #20) shall be reviewed and approved by MassDEP prior to placement.
	30. Prior to the start of work, the applicant shall submit a construction sequence to MassDEP and the Arlington Conservation Commission, for approval by MassDEP. The construction sequence shall include a plan showing the location of any material stockpile areas and any temporary, construction period, stormwater BMPs.
	31. Prior to the start of work, erosion controls consisting of silt fence and staked haybales shall be installed between the limits of work and the wetland resource areas. These barriers shall serve as the limit of disturbance and shall be installed as close to the work area as possible. Erosion controls shall remain in place until MassDEP approves their removal. If work occurs during the winter months, the applicant shall install orange snow fencing along the erosion control line in order to provide a more visible barrier.
	32. No soil or other materials shall be stockpiled within 100 feet of wetland resource areas.
	33. Upon completion of construction, all exposed soils shall be seeded with appropriate vegetation or otherwise stabilized by a method acceptable to the MassDEP and Arlington Conservation Commission.
	34. At no time during or after construction shall fill or other materials be placed, slump into or fall beyond the limit of grading as shown on the plan. The Environmental Monitor shall be responsible for inspecting and maintaining all slopes and shall immediately notify the MassDEP and the Arlington Conservation Commission if slumping, erosion or encroachment occurs.
	35. Excess soil, rock and debris excavated or generated during the course of this project shall be removed from the site and disposed of in a legal manner. Records of the destination of all materials, including excess fill and loam, to be removed from the site shall be kept on file and shall be provided to the MassDEP and the Arlington $\vec{\xi}$ onservation Commission upon request.
	of Storing, servicing or cleaning of equipment, including but not limited to fueling, changing, adding or applying lubricants or hydraulic fluids, or washing/rinsing of trucks or equipment, shall be performed outside the 100-foot buffer zone.
	37. During work on this project, there shall be no discharge or spillage of fuel, oil or other pollutants, including sediments, onto any part of the site. The applicant shall take all reasonable precautions to prevent the release of pollutants by ignorance, accident or vandalism.
	38. Upon completion of the project, the applicant shall request a Certificate of Compliance from the MassDEP and shall submit the following information with the request:
1	a) A written statement by a professional engineer or land surveyor registered in the Commonwealth of Massachusetts certifying compliance with the approved plans referenced above and this Superseding Order of Conditions and setting forth deviations, if any exist;

ł

Superseding Order of Conditions • Page 14 of 15

soc.doc – 4/22/2015 Formatted for Registry of Deeds

c

referenced in Condition #20.

ગ

An as-built site plan prepared by a registered land surveyor or registered professional engineer showing location and grades of the project, including but not limited to: the single-family home, deck, driveway,

stormwater BMP, and site grading on the project site.

A final plan and report showing the location, number and health of the plants shown on the planting plan

128 of 223

129 of 223

	Date	This Order is issued to the applicant as follows: ☐ by Hand delivery on	Northeast MassDEP Regional Office Net Lange Control Deputy Regional Director Signature Rachel Freed Deputy Regional Director Printed Name	E. Issuance This Order is valid for three years from the date of issuance, unless otherwise specified as a special condition pursuant to General Conditions # 4 or # 6. Issued by: Massachusetts Department of Environmental Protection:	D. Findings Under Municipal Wetlands Bylaw or Ordinance To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no jurisdicti supersede the local by-law order.	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
	Date - Cerunica main	⊠ by certified mail on: /タ・みイ・ル	12 /2 0/6 Date	rf issuance, unless otherwise specified tions # 4 or # 6. f Environmental Protection:	Findings Under Municipal Wetlands Bylaw or Ordinance To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no jurisdiction to supersede the local by-law order.	Environmental Protection Wetlands Program nditions on Act M.G.L. c. 131, §40

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 9 of 15

MassDEP File # 091-0276		ieved by the at 310 CMR 10.04, who 1, the conservation ated if at least one iffed of their right to a request is made by ling fee and a MassDEP this Superseding Order	otection	ne same time be sent by the person that ne MassDEP at:		ermination, the Appeal oup, whose name and		roceedings, 310 CMR different from applicant,	e numbers of the party , fax and telephone n residents group, the ion of participation by	e Decision; of participation in the ritten facts to	esses of all other	
Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	and Time Limits	The applicant, the landowner, the conservation commission, any person aggrieved by the Superseding Order, Determination or other Reviewable Decision as defined at 310 CMR 10.04, who previously participated in the proceedings leading to this Reviewable Decision, the conservation commission, or any ten (10) residents of the city or town where the land is located if at least one resident was previously a participant in the permit proceeding, are hereby notified of their right to appeal this Reviewable Decision pursuant to M.G.L. c.30A, § 10, provided the request is made by certified mail or hand delivery to the Department, along with the appropriate filing fee and a MassDEP Fee Transmittal Form within ten (10) business days of the date of issuance of this Superseding Order.	Case Administrator Office of Appeals and Dispute Resolution Massachusetts Department of Environmental Protection One Winter Street, 2 nd Floor Boston, MA 02108	A copy of the request (hereinafter also referred to as Appeal Notice) shall at the same time be certified mail or hand delivery to the Conservation Commission, the applicant, the person that requested the Superseding Order or Determination, and the issuing office of the MassDEP at:	MassDEP – Northeast Region Wetlands Program 205B Lowell Street Wilmington, MA 01887	In the event that a ten-resident group requested the Superseding Order or Determination, the Appeal Notice shall be served on the designated representative of the ten resident group, whose name and contact information is included in this Reviewable Decision (when relevant).		Appeal Notice shall comply with the Department's Rules for Adjudicatory Proceedings, 310 CMR 1(6) and 310 CMR 10.05(7)(j), and shall contain the following information: the MassDEP Wetlands File Number, name of the applicant, landowner if different from applicant, and address of the project;	the complete name, mailing address, email address, and fax and telephone numbers of the party filing the Appeal Notice: if represented by consultant or counsel, the name, fax and telephone numbers, email address, and mailing address of the representative; if a ten residents group, the same information for the group's designated representative; if the Appeal Notice is filed by a ten (10) resident group, then a demonstration of participation by	if the Appeal Notice is filed by an aggrieved person, then a demonstration of participation in the previous proceeding that lead to this Reviewable Decision and sufficient written facts to demonstrate status as a person aggrieved;	names, telephone and fax numbers, email addresses, and mailing addresses of all other rested parties, if known;	
Massachusetts Bureau of Resou Superseding Massachusetts V	F. Appeal Rights and	The applicant, the landowner Superseding Order, Determin previously participated in the commission, or any ten (10) resident was previously a par appeal this Reviewable Decis certified mail or hand delivery Fee Transmittal Form within to or Determination, and addres		A copy of the request (herein certified mail or hand delivery requested the Superseding O		In the event that a ten-residen Notice shall be served on the contact information is includec	Contents of Appeal Notic	çò	 b) the complete name, mailin filing the Appeal Notice; if numbers, email address, a same information for the g c) if the Appeal Notice is filed at hord too consider the same information to the same consider the same cons	 d) if the Appeal Notice is filed by an aggrievec previous proceeding that lead to this Revie demonstrate status as a person aggrieved; 	e) the names, telephone and f interested parties, if known;	
							13	31 of 223				

1

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 10 of 15



Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

> MassDEP File #

091-0276

Π. Appeal Rights and Time Limits (cont.)

- ⋺ a clear and concise statement of the alleged errors contained in the Department's decision and how each alleged error in inconsistent with 310 CMR 10.00 and does not contribute to the protection of the interests identified in the Wetlands Protection Act, M.G.L. c.131, § 40, including reference to the statutory or regulatory provisions that the party filing the Appeal Notice alleges has been violated by the Department's Decision, and the relief sought, including any specific desired changes to the Department's decision;
- g a copy of the Department's Reviewable Decision that is being appealed and a copy of the underlying Conservation Commission decision if the Reviewable Decision affirms the Conservation Commission decision;
- ट a statement that a copy of the request has been sent by certified mail or hand delivery to the applicant and the conservation commission; and
- ij if asserting a matter that is Major and Complex, as defined at 310 CMR 10.04(1), a statement requesting that the Presiding Officer make a designation of Major and Complex, with specific reasons supporting the request.

Filing Fee and Address

must be mailed to: order payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) A copy of the Appeal Notice along with a MassDEP Fee Transmittal Form and a valid check or money

Department of Environmental Protection Commonwealth of Massachusetts Commonwealth Master Lockbox Boston, Massachusetts 02211 Р.О. Box 4062

waiver. The filing fee is not required if the appellant is a city or town (or municipal agency), county, district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department the hearing request as provided above affidavit setting forth the facts believed to support the claim of undue financial hardship together with that paying the fee will create an undue financial hardship. A person seeking a waiver must file an may waive the adjudicatory hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a

		R
	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	MassDEP Fil 091-0276
	G. Recording Information	
· · ·	This Superseding Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Department.	stry of Deeds or the Land Court the affected property. In the case s Grantor Index under the name ed land, this Order shall also be subject to the Order of d to the Department.
	To: <u>Massachusetts Department of Environmental Protection Northeast Regional Office</u> Issuing Authority <u>205B Lowell Street, Wilmington, MA</u> 01887 MassDEP Regional Office Address	ist Regional Office
	Please be advised that the Order of Conditions for the Project at:	
	47 Spy Pond Lane, Lot A 091-0276 Project Location (Street and Town) MassDEP File Number	ber
	Has been recorded at the Registry of Deeds of:	
	Middlesex County	
	Property Owner	200
	and has been noted in the chain of title of the affected property in:	
	Book	
	In accordance with the Order of Conditions issued on:	
3 of 2	Date	
	If recorded land, the instrument number identifying this transaction is:	• •
	Instrument Number	
	If registered land, the document number identifying this transaction is	
	Document Number Signature of Applicant	
•	soc.ooc – 4/2/2015 Formatted for Registry of Deeds	Superseding Order of Conditions • Page 12 of 15



Town of Arlington, Massachusetts

Notice of Intent

Summary: 47 Spy Pond Lane Lot 2/B MassDEP File #unassigned

The Superseding Order of Conditions issued by the Massachusetts Department of Environmental Protection on 12/29/2016 for Lot 2/B expired on 12/29/2019. This project site is therefore currently only permitted under the local Arlington Wetlands Protection Bylaw, and not the Massachusetts Wetlands Protection Act. This Notice of Intent is filed under the Wetlands Protection Act only. This project proposes to remove an existing impervious driveway and construct a house.

ATTACHMENTS: Type

File Name

- Notice of Intent 47SPL_Lot_2_NOI_unsigned_redacted.pdf D
- Notice of Intent 47SPL Lot 2 Work Description.pdf D
- Notice of Intent 47SPL Lot 2 Proposed Plan.pdf D
- Notice of Intent 47SPL_Lot_2_Planting_Plan.pdf D
- Notice of Intent 47SPL Lot 2 Drainage Analysis.pdf D
- Notice of Intent 47SPL Lot 2 Vortechs Design.pdf D
- D Notice of Intent 47SPL_Lot_2_Vortechs_Details.pdf
- Notice of Intent 47SPL_Lot_2_Vortechs_TSS_Calculations.pdf 47SPL Lot 2 Vortechs TSS Calculations D
- Notice of Intent 47SPL_Lot_2_MA_WQ_Flow_Sizing_Sheet.pdf 47SPL Lot 2 Water Quality Flow Rate D
- Notice of Intent 47_SPL_Lot_2_Construction_O_M_Plan.pdf D
- Notice of Intent MassDEP Superseding OOCs.pdf D

Description

- 47SPL Lot 2 NOI Form
- 47SPL Lot 2 Narrative
- 47SPL Lot 2 Proposed Plan
- 47SPL Lot 2 Proposed Planting Plan
- 47SPL Lot 2 Drainage Analysis
- 47SPL Lot 2 Vortechs Design
- 47SPL Lot 2 Vortechs Details

47SPL Lot 2 Construction O&M Plan 47SPL Superseding Orders of Conditions



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

A. General Information

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 Arlington 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.

47 Spy Pond Lane	(Lot 2/Lot B	Arlington	02474
a. Street Address		b. City/Town	c. Zip Code
Latitude and Longi	tude:	d. Latitude	e. Longitude
12-4-2			o. Longitudo
f. Assessors Map/Plat N	Number	g. Parcel /Lot Numbe	r
Applicant:			
Scott		Seaver	
a. First Name		b. Last Name	
Seaver Construction	on		
c. Organization 215 Lexington Stre	et		
d. Street Address Woburn		MA	01801
e. City/Town		f. State	g. Zip Code
2			U
h. Phone Number	i. Fax Number	j. Email Address	
		applicant): Check if	more than one owner
a. First Name c. Organization	·	b. Last Name	
	·		
c. Organization			g. Zip Code
c. Organization d. Street Address	i. Fax Number	b. Last Name	
c. Organization d. Street Address e. City/Town h. Phone Number	i. Fax Number	b. Last Name	
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a	i. Fax Number	b. Last Name f. State j. Email address	
c. Organization d. Street Address e. City/Town h. Phone Number	i. Fax Number	b. Last Name	
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a Mary	i. Fax Number	b. Last Name f. State j. Email address	
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a <u>Mary</u> a. First Name	i. Fax Number	b. Last Name f. State j. Email address	
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a <u>Mary</u> a. First Name	i. Fax Number	b. Last Name f. State j. Email address Last Name	g. Zip Code
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a <u>Mary</u> a. First Name d. Street Address e. City/Town h. Phone Number	i. Fax Number any): i. Fax Number	b. Last Name f. State j. Email address	g. Zip Code
c. Organization d. Street Address e. City/Town h. Phone Number Representative (if a <u>Mary</u> a. First Name d. Street Address e. City/Town h. Phone Number	i. Fax Number any):	b. Last Name f. State j. Email address	g. Zip Code



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Provided by MassDEP:

Coastal engineering Structure

8. Transportation

MassDEP File Number

Document Transaction Number Arlington City/Town

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

A. General Information (continued)

6. General Project Description:

Construction of a single family dwelling. Work is within one hundred feet of jurisdictional wetlands.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. □ Single Family Home
 2. □ Residential Subdivision

 3. □ Commercial/Industrial
 4. □ Dock/Pier
- 5. 🗌 Utilities
- 7. Agriculture (e.g., cranberries, forestry)
- 9. 🗌 Other
- 7b. Is 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)?

6.

1. 🗌 Yes	If yes, describe which limited project applies to this project. (See 310 CMR
	10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex	
a. County	b. Certificate # (if registered land)
73606	227
c. Book	d. Page Number

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

- 1. Buffer Zone Only Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any 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.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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 Arlington City/Town

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

	<u>Resou</u>	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)		
For all projects	a. 🗌	Bank	1. linear feet	2. linear feet		
affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.	b. 🗌	Bordering Vegetated Wetland	1. square feet	2. square feet		
	c. 🗌	Land Under Waterbodies and	1. square feet	2. square feet		
		Waterways	3. cubic yards dredged			
	<u>Resou</u>	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)		
	d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square feet		
	e. 🗌	Isolated Land	3. cubic feet of flood storage lost	4. cubic feet replaced		
	0.	Subject to Flooding	1. square feet			
			2. cubic feet of flood storage lost	3. cubic feet replaced		
	f. 🗌	Riverfront Area	1. Name of Waterway (if available) - spe	cify coastal or inland		
	2.	Width of Riverfront Area	(check one):			
		25 ft Designated D	ensely Developed Areas only			
		100 ft New agricultural projects only				
		200 ft All other pro	jects			
	3.	Total area of Riverfront Are	ea on the site of the proposed proje	ct: square feet		
	4.	Proposed alteration of the	Riverfront Area:			
	a.	total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.		
	5.	Has an alternatives analys	is been done and is it attached to th	his NOI?		
	6.	Was the lot where the activ	vity is proposed created prior to Aug	just 1, 1996? □ Yes □ No		
3	5. 🗌 Coa	astal Resource Areas: (Se	e 310 CMR 10.25-10.35)			
	Note:	for coastal riverfront areas	, please complete Section B.2.f. at	oove.		



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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 Arlington City/Town

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		<u>Resou</u>	rce Area	Size of Proposed Alteration Proposed Replacement (if					
transaction number		а. 🗌	Designated Port Areas	Indicate size ur	nder Land Under	the Ocean, below			
(provided on your receipt page) with all supplementary information you submit to the		b. 🗌	Land Under the Ocean	1. square feet					
				2. cubic yards dredged					
Department.		c. 🗌	Barrier Beach	Indicate size und	ler Coastal Bead	ches and/or Coastal Dunes below			
		d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment			
		e. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment			
				Size of Proposed	d Alteration	Proposed Replacement (if any)			
	s i j	f. 🗌	Coastal Banks	1. linear feet					
		g. 🗌	Rocky Intertidal Shores	1. square feet					
		h. 🗌	Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation				
		i. 📘	Land Under Salt Ponds	1. square feet					
			_		2. cubic yards dredged				
		j. 🗌	Land Containing Shellfish	1. square feet					
		k. 🗌	Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above					
				1. cubic yards dredge	ed				
		I. 🗌	Land Subject to Coastal Storm Flowage	1. square feet					
	4.	If the p square amoun	footage that has been enter			esource area in addition to the /e, please enter the additional			
		200 a. square	e feet of BVW		b. square feet of S	alt Marsh			
	5.	Pro	pject Involves Stream Cross	sings					
		a. numbe	er of new stream crossings		b. number of repla	cement stream crossings			



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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 Arlington City/Town

C. Other Applicable Standards and Requirements

This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Notice of Intent – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

 Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. 🛛 Yes 🗌 No	If yes, include proof of mailing or hand delivery of NOI to:
	Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife
2008	1 Rabbit Hill Road Westborough, MA 01581
b. Date of map	

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

c. Submit Supplemental Information for Endangered Species Review*

- 1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area

0 percent percentage/acreage

(b) outside Resource Area

percentage/acreage

- 2. 🛛 Assessor's Map or right-of-way plan of site
- 2. 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 of impacts outside of wetland resource area & buffer zone)
 - (b) \square 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/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). 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. 3/10/2016
139 of 223 Page 5 of 9



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Provided by MassDEP:

MassDEP File Number

WPA Form 3 – Notice of Intent

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

Document Transaction Number Arlington City/Town

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

(c) MESA filing fee (fee information available at <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm</u>). Make check payable to "Commonwealth of Massachusetts - NHESP" and *mail to NHESP* at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
- 1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm;</u> the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. 🗌	Separate MESA review ongoing.		
2.	Separate MESA review origoing.	a. NHESP Tracking #	b. Date submitted to NHESP

- 3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
- 3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only	b. 🗌 Yes 🗌 No
---	---------------

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:	North Shore - Hull to New Hampshire border:
Division of Marine Fisheries -	Division of Marine Fisheries -
Southeast Marine Fisheries Station	North Shore Office

Southeast Marine Fisheries Station Attn: Environmental Reviewer 1213 Purchase Street – 3rd Floor New Bedford, MA 02740-6694 Email: <u>DMF.EnvReview-South@state.ma.us</u> Division of Marine Fisheries -North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: DMF.EnvReview-North@state.ma.us

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.

	Bu M a	Assachusetts Department of Environmental Protection Ireau of Resource Protection - Wetlands /PA Form 3 – Notice of Intent assachusetts Wetlands Protection Act M.G.L. c. 131, §40 Arlington City/Town					
	C. Other Applicable Standards and Requirements (cont'd)						
	4.	Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?					
Online Users: Include your document		a. Yes X 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.					
transaction number		b. ACEC					
(provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?					
supplementary information you		a. 🗌 Yes 🖾 No					
submit to the Department.	 Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlan Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 						
		a. 🗌 Yes 🖾 No					
	7.	Is this project subject to provisions of the MassDEP Stormwater Management Standards?					
		 a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if: 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3) 					
		2. A portion of the site constitutes redevelopment					
		3. Proprietary BMPs are included in the Stormwater Management System.					
		b. No. Check why the project is exempt:					
		1. Single-family house					
		2. Emergency road repair					
		3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.					
		Additional Information					

This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Arlington City/Town

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

D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

Keenan Survey	James R Keenan		
b. Prepared By	c. Signed and Stamped by		
3-17-19	1"=10'		
d. Final Revision Date	e. Scale		
See Notice of Intent			
f. Additional Plan or Document Title	g. Date		

- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date		
	5. Oncok date		
4. State Check Number	5. Check date		
6. Pavor name on check: First Name	7. Pavor name on check: Last Name		



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

MassDEP File Number
Document Transaction Number
Arlington
City/Town

Provided by MassDEP:

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)	4. Date
5. Signature of Representative (if any)	6. Date

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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands **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.



A. Applicant Information

1. Location of	Location of Project:					
47 Spy Po	ond Lane (Lot B)	Arlington	Arlington		
a. Street Ad			b. City/Towr	n		
c. Check nu	mber		d. Fee amount			
2. Applicant	Mailing Ac	ldress:				
Scott			Seaver			
a. First Nam	a. First Name			ne		
Seaver Co	onstructior	1				
c. Organizat	ion					
	gton Stree	t				
d. Mailing A						
Woburn				MA	01801	
e. City/Towr	١			f. State	g. Zip Code	
h. Phone Nu	umber	i. Fax Number	j. Email Add	Iress		
3. Property (Property Owner (if different):					
a. First Nam	ie		b. Last Nam	ne		
c. Organizat	ion					
d. Mailing A	ddress					
e. City/Towr	1			f. State	g. Zip Code	
h. Phone Nu	umber	i. Fax Number	j. Email Add	Iress		

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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Single Family Dwelling	(1) 	\$500.00	\$500.00
	Step 5/Tc	otal Project Fee:	\$500.00
	Step 6/	Fee Payments:	
		Project Fee: of filing Fee:	\$500.00 a. Total Fee from Step 5 \$237.50 b. 1/2 Total Fee less \$ 12.50
	City/Town share		262.50 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.)

Description of Work

Notice of Intent Filing 47 Spy Pond Lane (Lot 2/Lot B) Arlington, MA

EXISTING CONDITIONS

The 47 Spy Pond Lane property consisted of an existing single family house located on the north side of Spy Pond Lane, above the southern Bank of Spy Pond. Currently, the original dwelling has been demolished, and the foundation for a new single family home has been constructed. Framing and construction is ongoing atop of the newly poured foundation. The following photos show the condition of the lot on February 17, 2020:





WETLANDS DELINEATION

Wetland Resource Areas on the Lot

The wetlands on the property were delineated by Mary Trudeau in the early spring of 2016. Portions of the delineation were revised in response to comments from the Conservation Commission during an earlier filing for the property. Statutory wetlands on, or adjacent to, the property include Bordering Vegetated Wetland; Bank; Land Under Waterbody; and Bordering Land Subject to Flooding. Jurisdictional buffer zones have been calculated from the Bank of the waterbody, the Bordering Vegetated Wetlands, and/or off of the wetlands on the adjacent Lot 1/Lot A. This delineation was affirmed in the Superseding Orders of Conditions issued for the development of Lots1/2 (A/B) in 2016, and subsequently in the Orders of Conditions issued by the Arlington Conservation Commission in 2019 under the local wetlands bylaw.

For the purposes of this filing, the mean annual high water level has been estimated at between elevations (3 and 4). This corresponds to the first discernable break in slope observed at this site. FEMA has determined the 100 year flood elevation to fall along the Bank of the Pond, but does not give a specific elevation on the maps for this site (attached) This delineation was also affirmed in the Superseding Order of Conditions issued by the Department, and the subsequent local Orders of Conditions.

WORK INCLUDED IN THE NOTICE OF INTENT

Construction of a Single Family Dwelling

Work included in this Notice of Intent consists of the construction of a single family home located on a portion of the property. This work is currently regulated under an Order of Conditions issued under the local Arlington Wetlands Protection bylaw. The expiration of the Superseding Order of Conditions in December of 2019 has left this project in need of an Order of Conditions issued under the Massachusetts Wetlands Protection Act.

At the time of the expiration, the applicant had poured the foundation for the new home, and had begun framing the structure. With the agreement of the Arlington Conservation Commission, the applicant has permission to continue the framing and structural work atop of the new foundation. The applicant has agreed to defer any earthwork, and ceased all other activities on this site, until the Arlington Conservation Commission has issued an Order of Conditions under the Massachusetts Wetlands Protection Act. The following photos show the current stockpiling of building materials outside of jurisdictional areas, and the ongoing work atop the new foundation:





With the exception of plantings within the 0 to 25 foot buffer zone, the application does not include any changes in the landscaping within seventy feet of the Bank resource area. The applicant is proposing the installation of the storm water infiltration system within the Adjacent Upland Resource Area, but no portion of this system is located within 65 feet of the wetlands associated with the Pond. As agreed, the sizing of the system reflects the larger footprint dwelling proposed in earlier filings.

MITIGATING MEASURES

RESTORATION OF THE 0 TO 25 FOOT BUFFER ZONE WITH NATIVE SHRUBS

The application includes a restoration plan designed to remove lawn areas, and restore a thicket type vegetation to the 0 to 25 foot buffer zone. This plan includes the planting of a variety of native, woody shrubs within the 0 to 25 foot buffer zone, leaving only an eight foot wide foot path open between the 25 foot buffer zone line and the waterbody.

Shrubs will be planted at 6'-10' foot centers, and will consist of the following varieties of woody plants:

The following plants have been included in this planting area:

(10)	Sweet Pepperbush	(Clethra alnifolia)
(10)	Arrowwood	(Viburnum recognitum)
(10)	Silky Dogwood	(Cornus amomum)
(5)	Witch hazel	(Hamamelis virginiana)
(3)	Shadbush	(Amelanchier canadense)
(30)	Lowbush Blueberry	(Vaccinium angustifolia)

As a portion of this lot includes an area of "Bordering Vegetated Wetland" within the existing lawn area, plantings listed above and planted in this portion of the lawn, will restore a Bordering Vegetated Wetland plant community to the resource area. The applicant estimates the square footage of this wetland restoration to be approximately 278 square feet, and the square footage of buffer zone restoration to be approximately 875 square feet. The wetland restoration portion of the restoration will be planted with Arrowwood Viburnums (FACW). The remainder of the proposed planting will be spread across the restoration area.

CONSTRUCTION OF FREE STANDING STONE WALL AT 25' BUFFER ZONE

The applicant will construct a free standing, field stone wall, with a height of at least 2.5 feet along the 25 foot buffer zone. The wall will begin 2 feet to the south of the northern property line, and run southerly to the edge of the 8 ' foot wide pedestrian walkway straddling the property line between Lots 1 and 2.

DOCK RELOCATION

The project locus currently has a small wooden dock, currently located on Lot 1. The applicant agrees to pursue a waterways license modification to relocate the dock to run perpendicular to the property line between lots 1 and 2. This will allow the dock to be accessed by the walking easement, straddling the property line between lots 1 and 2.

STORMWATER MANAGEMENT SYSTEM

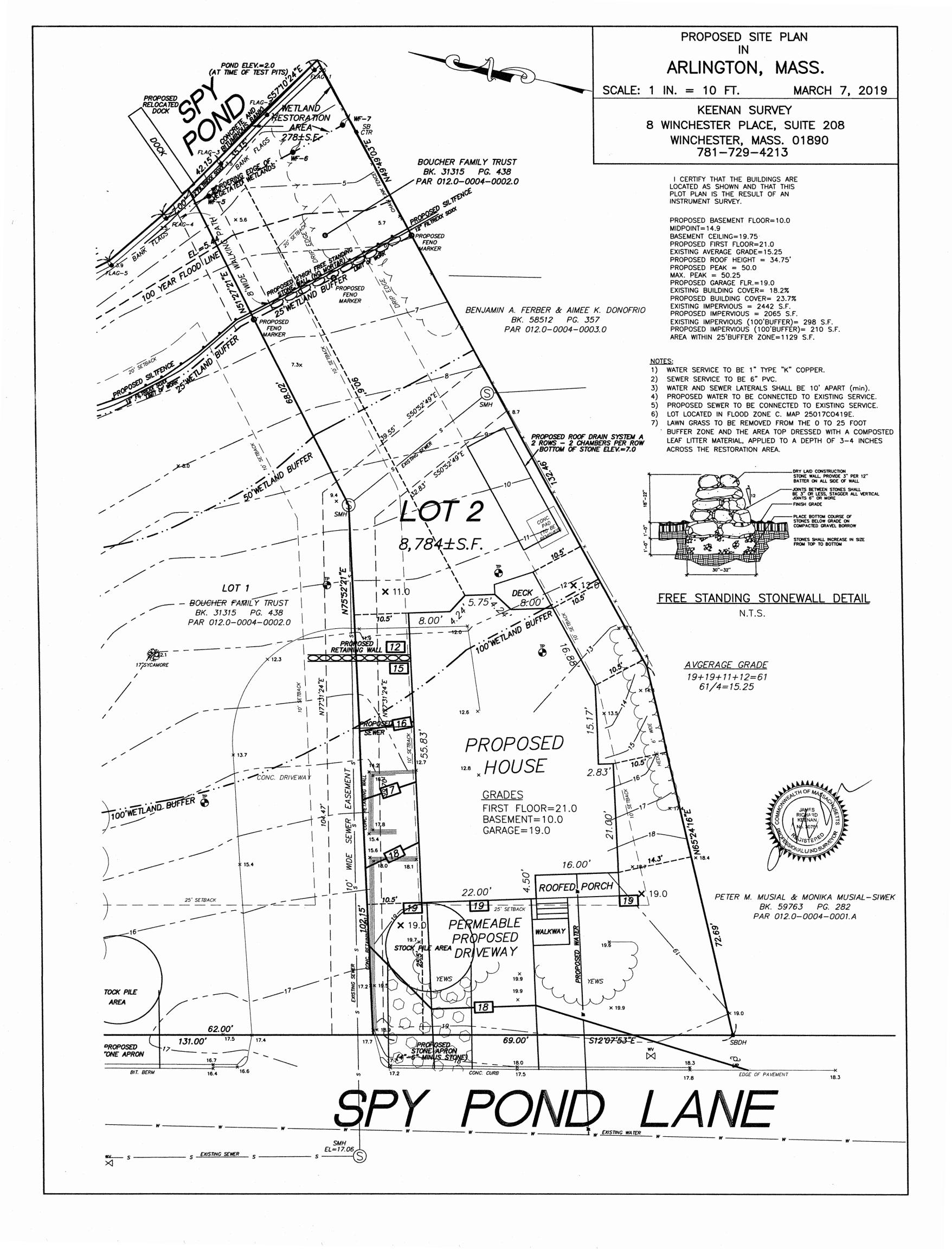
The proposed site plan includes mitigation for the increased surface water flows and impervious surfaces on the site. The proposal includes a subsurface infiltration system designed to capture and infiltrate roof runoff, via a closed gutter system. This mitigation is proposed outside of the 0 to 50 foot buffer zone, and provides recharge capacity for the development. The system was designed and sized to accommodate the original foot print of the home proposed for this lot, and has not been reduced in size for the currently proposed footprint. This results in approximately ten percent excess capacity within the system for each of the design storm events.

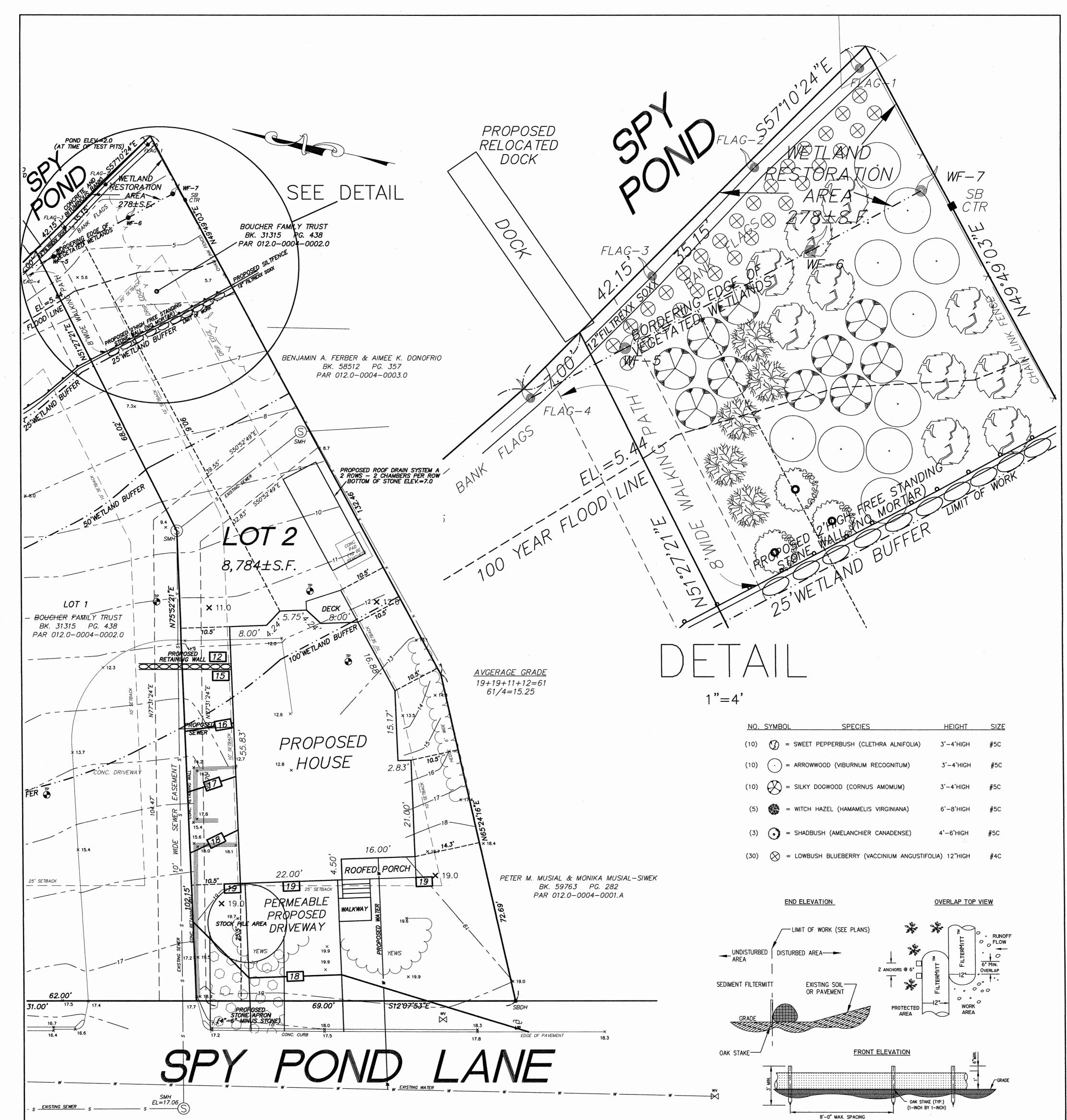
EROSION AND SEDIMENTATION CONTROLS

Prior to any construction on the site, the limit of work line will be created through the use of a row of 12 inch diameter filter soxx filled with composted wood mulch, backed by an entrenched row of siltation control fencing. The controls will be used to insulate the various work areas from the down gradient wetlands, and will be maintained throughout the construction process. It is expected that a filter soxx will be set along the 25 foot buffer zone. As work areas vary during the construction, additional check dams and barriers may need to be added to protect recently graded areas. The photo below shows the installation on the site:



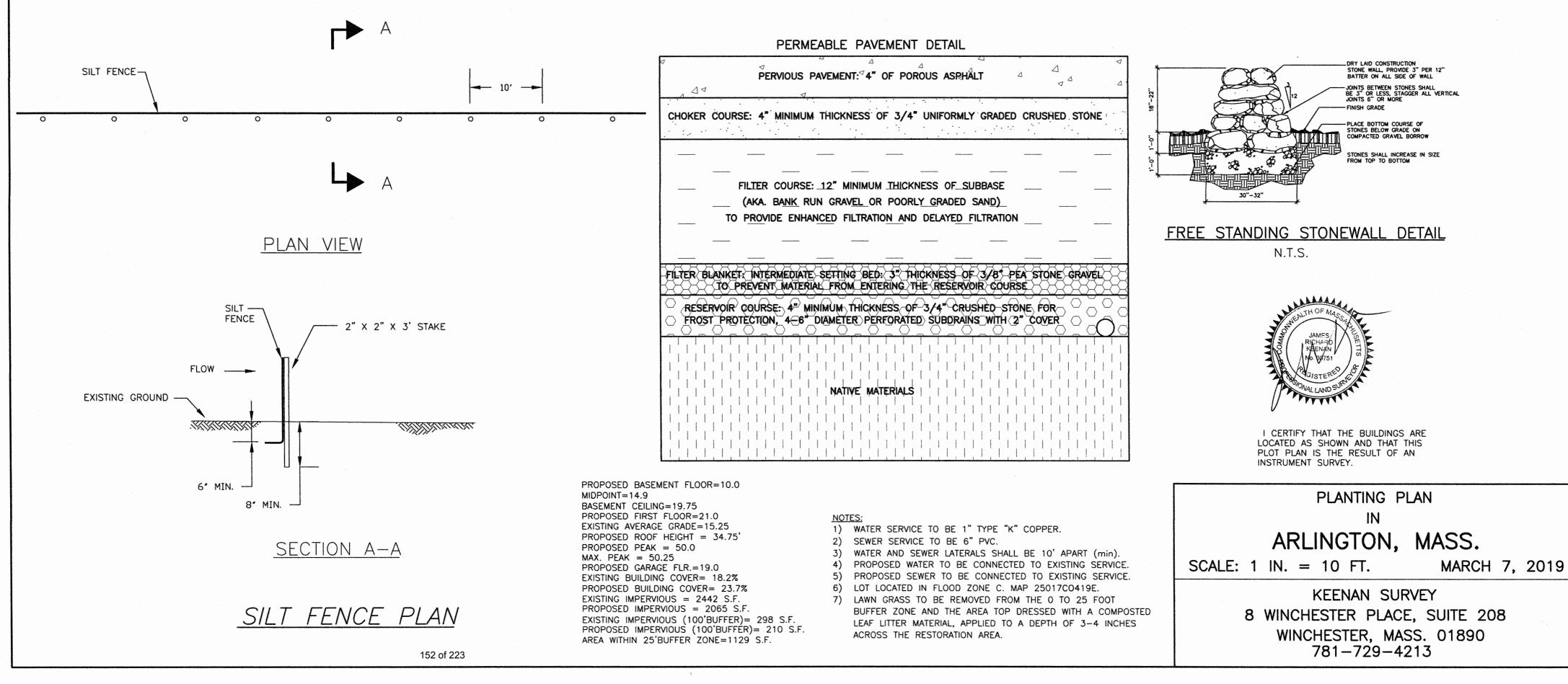
Stockpile areas for the spoils on this site are currently set upon a portion of Lot 1. While the proposed foundation work resulted in temporary or short term stockpiles of earth materials, the applicant will has covered the spoils with tarps and has set erosion controls at both the 25 foot buffer zone and above the top of the Bank of Spy Pond. Long term stockpiles will be bounded by staked straw bales or wattles, and excess soil materials will be hauled from the site. The surface of the work area will be loamed, planted and/or hydro seeded at the completion of the construction, and erosion controls maintained throughout the winter months.





EROSION CONTROL DETAIL

N. T. S.



ALAN ENGINEERING, L.L.C.

288 Littleton Road, Suite 31 Westford, MA 01886 (978) 577-6444 alan.eng@verizon.net

June 28, 2016

Scott Seaver Seaver Construction, Inc. 215 Lexington Street Woburn, MA 01801

Ref: Drainage Analysis 47 Spy Pond Lane – Lot 2 Arlington, MA

Dear Mr. Seaver:

Alan Engineering has prepared the following drainage analysis of the proposed house on Lot 2 at 47 Spy Pond Lane in Arlington, MA.

This analysis compares runoff generated from the existing site to the runoff that will be generated from the site after the construction of the new house. In accordance with the requirements of the Arlington Conservation Commission the 10-year, 25-year, and 100-year storm events were analyzed. The storm events were 24-hour rainfalls with a Type III rainfall distribution. The rainfall amounts were based on the "Cornell Study".

The proposed lot will contain 8,784 square feet of land. Under the existing conditions the lot contains 2,406 square feet of impervious area. The proposed site will contain a total of 2,588 square feet of impervious area.

The increase in impervious area will result in an increase in the rate and volume of runoff. In order to mitigate the increase a subsurface roof drain infiltration system is proposed. A roof gutter and downspout system will collect all roof runoff and discharge it into a subsurface system located at the rear of the proposed house. The system will collect and recharge a portion of the roof runoff that is slightly greater than the increase in runoff volume generated by the proposed site development. The result is a decrease in both the peak rate and total volume of runoff from the site. The results of the analysis are summarized in the table below.

Test pits were excavated on the lot on June 28, 2016 to determine the permeability of the soil and the depth to groundwater. All test pits had approximately 5 feet of fill above the original ground. The underlying native soil is fine sand. A percolation test yielded a rate of 1 minute per inch. This is indicative of hydrologic soil group (HSG) A. The estimated seasonal high groundwater ranged from 54 inches to 66 inches below the ground surface in 3 of the 4 test holes, and 90 inches below the ground surface in the higher of the 4 test holes.

Comparative Hydrologic Summary

47 Spy Pond Lane - Lot 2

Arlington, MA

June 28, 2016

10 Year Storm - 4.80 inches

	Pre-Deve	elopment	Post Dev	elopment
Point of Analysis	Peak Rate (c.f.s.)	Volume (ac-ft)	Peak Rate (c.f.s.)	Volume (ac-ft)
Total Runoff	0.05	0.008	0.01	0.003

50 Year Storm - 7.06 inches

	Pre-Deve	elopment	Post Development	
Point of Analysis	Peak Rate (c.f.s.)	Volume (ac-ft)	Peak Rate (c.f.s.)	Volume (ac-ft)
Total Runoff	0.29	0.024	0.13	0.013

100 Year Storm - 8.48 inches

	Pre-Deve	elopment	Post Development	
Point of Analysis	Peak Rate (c.f.s.)	Volume (ac-ft)	Peak Rate (c.f.s.)	Volume (ac-ft)
Total Runoff	0.49	0.037	0.25	0.023

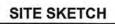
Please feel free to contact me with any questions or comments.

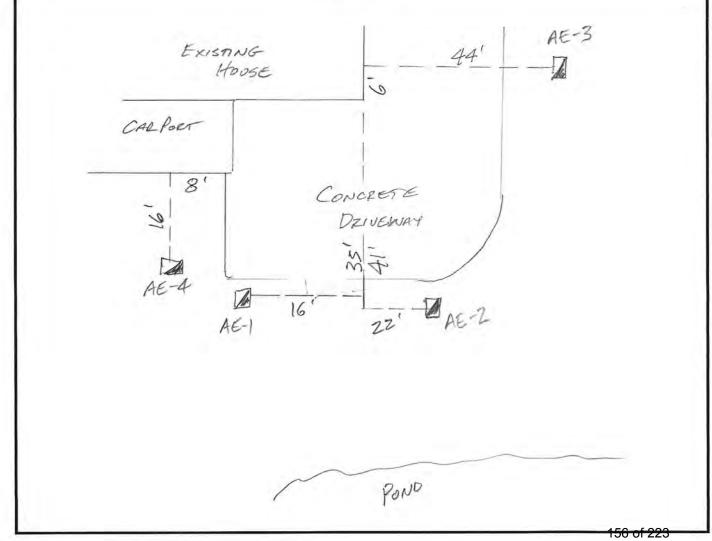
Very truly yours, ALAN ENGINEERING, L.L.C.

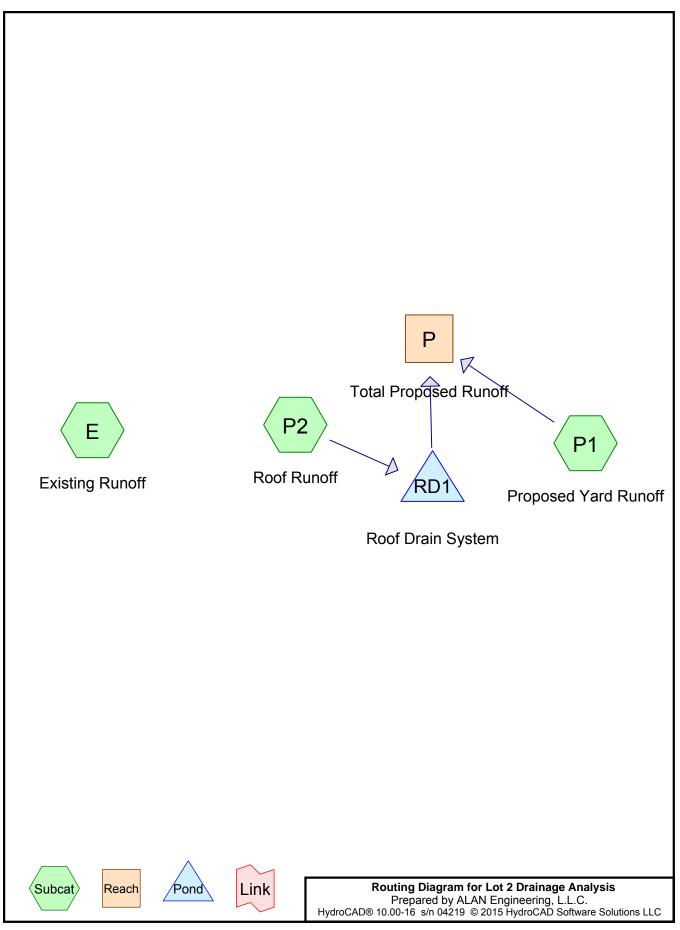
Mark A. Sleger, P.E. Manager

Job Nu	mber4	0	Client	GEAVER G	NSTRUCTION	
Site Add	dress 475	O PY POND LANE	Town	ARLINGTO	N	
		RESIDENTIA				
		SINGLE FAR		1166		
OIL		GROUND MER		NEE		
	Vegetation	LANN				
V	Vater Supply	Towns				
Deep Ho	le No AE-	- 1		Date 6/	28/2016	
		EGER	Ten	nperature 6		
		A		Weather Co		HT RATING
Horizon	Depth	Classification	Color		Comments	3
FILC	0-54"	SANDY LOAM		SOME GA	enver	
C	54-126	FINE -SAND	104R 574			
			1			
Seepage	Standing	Mottling	Color	ESHWT	Roots	Refusal
108"		60 "	2.576/3	60 "	72 "	
1			21010/5	00	16	
	ole No AE	the second s				
Horizon	Depth	Classification	Color		Comments	
FILL	0-60"	SANDY FILL		MOTTLING IN	1 SAND FILL	
A	60-69"	SANDY LOAMS	104R2/2			
B	69-78° 78-120	FINESAND	1042 5/4			
Seepage	Standing	HNE SAND Mottling	Color	ESHWT	Roots	Refusal
108 "	108"		00101	54"	78"	Refusal
100	100	54"		27	/0	
Deep Ho	ole No AE.	-3				
Horizon	Depth	Classification	Color	· · · · · · · · · · · · · · · · · · ·	Comments	8
Fill	0-60"	SANDY FILL	-			
C,	60- 138"	FINE SAND	104R 5/4			
Seepage	Standing	Mottling	Color	ESHWT	Roots	Refusal
	_	90"	2.57 6/3	90"	96"	_
	2.65 11.0			1		
	ole No AE				-	
Horizon	Depth	Classification	Color		Comment	5
Fice	0-66"	SANDY FILL				
C,	66-114"	FINE SAND	10425/4			
						et.
the second se						
Seepage	Standing	Mottling	Color	ESHWT	Roots	Refusal

	ALAN E	INGINEERIN	IG, L.L.C.		
	SOIL E	VALUATION	REPORT		
Job Number		Client	SCAUER	CONST.	
Site Address 47 5	PY POND LANE	Town	ARLINGTO	SUC	
	PE	RCOLATION	ESTS		
Soil Evaluator <u>M.Sco</u> Local Official <u>N/A</u>	EGER	Date Weather	6/28/2016 40HT R	_Temperature	_65°
Deep Hole No	AE-1				
Depth to Bottom	84"			1	1
Soil Classification	FINE SAND	()			· · · · · · · · · · · · · · · · · · ·
Start Pre Soak	9:02				
Start of Test - 12"	9:17				-
Time at 9"	9:21			· · · · · · · ·	
Time at 6"	9:24			· · · · · · · · · · · · · · · · · · ·	
Time from 9" to 6"	3 MIN				
Percolation Rate	MIN/INOH				







Lot 2 Drainage Analysis Type III 24-h Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

Page 2

Summary for Subcatchment E: Existing Runoff

Runoff = 0.05 cfs @ 12.14 hrs, Volume= 0.008 af, Depth> 0.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Storm Rainfall=4.80"

A	rea (sf)	CN	Adj De	Description		
	2,406	98			avement, HSG A	
	6,378	39	>75	5% Grass co	ver, Good, HSG A	
Tc	8,784 6,378 2,406 2,406 Length	55 Slope	72. 27. 100	61% Perviou 39% Impervi).00% Uncor	ous Area	
(min)	(feet)	(ft/ft)	-			
5.0					Direct Entry,	

Summary for Subcatchment P1: Proposed Yard Runoff

Runoff = 0.01 cfs @ 12.39 hrs, Volume= 0.003 af, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Storm Rainfall=4.80"

A	rea (sf)	CN	Adj Description		
	588	98			avement, HSG A
	6,196	39	>75	% Grass co	ver, Good, HSG A
	6,784 6,196 588 588	44	91.3 8.6	ighted Avera 33% Perviou 7% Impervic 0.00% Uncor	bus Area
Tc (min)	Length (feet)	Slope (ft/ft)			Description
5.0					Direct Entry,

Summary for Subcatchment P2: Roof Runoff

Runoff = 0.22 cfs @ 12.07 hrs, Volume= 0.017 af, Depth> 4.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 10-Year Storm Rainfall=4.80"

Page 3

Lot 2 Drainage Analysis

Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

CN Description Area (sf) 2,000 98 Roofs, HSG A 2,000 100.00% Impervious Area Slope Velocity Capacity Length Description Тс (min) (feet) (ft/ft) (ft/sec) (cfs) 5.0 **Direct Entry**,

Summary for Reach P: Total Proposed Runoff

Inflow Area =	0.202 ac, 29.46% Impervious, Inflow De	epth > 0.20" for 10-Year Storm event
Inflow =	0.01 cfs @ 12.39 hrs, Volume=	0.003 af
Outflow =	0.01 cfs @ 12.39 hrs, Volume=	0.003 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Summary for Pond RD1: Roof Drain System

Inflow Area =	0.046 ac,100.00% Impervious, Inflow D	epth > 4.56" for 10-Year Storm event
Inflow =	0.22 cfs @ 12.07 hrs, Volume=	0.017 af
Outflow =	0.05 cfs @ 11.72 hrs, Volume=	0.017 af, Atten= 78%, Lag= 0.0 min
Discarded =	0.05 cfs @ 11.72 hrs, Volume=	0.017 af
Primary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 270.02' @ 12.46 hrs Surf.Area= 262 sf Storage= 153 cf

Plug-Flow detention time= 14.3 min calculated for 0.017 af (100% of inflow) Center-of-Mass det. time= 14.2 min (761.5 - 747.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	269.00'	198 cf	11.25'W x 23.25'L x 2.54'H Field A
			665 cf Overall - 169 cf Embedded = 496 cf x 40.0% Voids
#2A	269.50'	169 cf	Cultec R-150XLHD x 6 Inside #1
			Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
			Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
			Row Length Adjustment= +0.75' x 2.65 sf x 3 rows
		367 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	269.00'	8.270 in/hr Exfiltration over Horizontal area
#2	Primary	271.00'	4.0" Round Culvert X 2.00
			L= 5.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 271.00' / 270.90' S= 0.0200 '/' Cc= 0.900
			n= 0.010 PVC, smooth interior, Flow Area= 0.09 sf

Discarded OutFlow Max=0.05 cfs @ 11.72 hrs HW=269.03' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=269.00' (Free Discharge) —2=Culvert (Controls 0.00 cfs) Lot 2 Drainage Analysis Type III 24-h Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

Page 5

Summary for Subcatchment E: Existing Runoff

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.024 af, Depth> 1.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 50-Year Storm Rainfall=7.06"

A	rea (sf)	CN /	Adj Des	cription	
	2,406	98			avement, HSG A
	6,378	39	>75	<u>% Grass co</u>	ver, Good, HSG A
Та	8,784 6,378 2,406 2,406	55	72.6 27.3 100	1% Perviou 9% Impervi 00% Uncor	ious Area nnected
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Subcatchment P1: Proposed Yard Runoff

Runoff = 0.13 cfs @ 12.11 hrs, Volume= 0.013 af, Depth> 1.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 50-Year Storm Rainfall=7.06"

A	rea (sf)	CN	Adj Des	scription	
	588	98			avement, HSG A
	6,196	39	>75	% Grass co	ver, Good, HSG A
	6,784 6,196 588 588	44	91.3 8.6	ighted Avera 33% Perviou 7% Impervic 0.00% Uncor	bus Area
Tc (min)	Length (feet)	Slope (ft/ft)			Description
5.0					Direct Entry,

Summary for Subcatchment P2: Roof Runoff

Runoff = 0.33 cfs @ 12.07 hrs, Volume= 0.026 af, Depth> 6.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 50-Year Storm Rainfall=7.06"

Lot 2 Drainage Analysis

Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

Page 6

A	rea (sf)	CN [Description		
	2,000	98 F	Roofs, HSC	Э А	
	2,000	1	00.00% In	npervious A	Area
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Reach P: Total Proposed Runoff

Inflow Area =	0.202 ac, 29.46% Impervious, Inflow D	epth > 0.79" for 50-Year Storm event
Inflow =	0.13 cfs @ 12.11 hrs, Volume=	0.013 af
Outflow =	0.13 cfs @ 12.11 hrs, Volume=	0.013 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Summary for Pond RD1: Roof Drain System

Inflow Area =	0.046 ac,100.00% Impervious, Inflow D	Depth > 6.82" for 50-Year Storm event
Inflow =	0.33 cfs @ 12.07 hrs, Volume=	0.026 af
Outflow =	0.05 cfs @ 11.63 hrs, Volume=	0.026 af, Atten= 85%, Lag= 0.0 min
Discarded =	0.05 cfs @ 11.63 hrs, Volume=	0.026 af
Primary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 270.88' @ 12.54 hrs Surf.Area= 262 sf Storage= 296 cf

Plug-Flow detention time= 31.7 min calculated for 0.026 af (100% of inflow) Center-of-Mass det. time= 31.6 min (773.1 - 741.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	269.00'	198 cf	11.25'W x 23.25'L x 2.54'H Field A
			665 cf Overall - 169 cf Embedded = 496 cf x 40.0% Voids
#2A	269.50'	169 cf	Cultec R-150XLHD x 6 Inside #1
			Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
			Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
			Row Length Adjustment= +0.75' x 2.65 sf x 3 rows
		367 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	269.00'	8.270 in/hr Exfiltration over Horizontal area
#2	Primary	271.00'	4.0" Round Culvert X 2.00
			L= 5.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 271.00' / 270.90' S= 0.0200 '/' Cc= 0.900
			n= 0.010 PVC, smooth interior, Flow Area= 0.09 sf

Discarded OutFlow Max=0.05 cfs @ 11.63 hrs HW=269.03' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=269.00' (Free Discharge) —2=Culvert (Controls 0.00 cfs)

Summary for Subcatchment E: Existing Runoff

0.49 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 2.21" Runoff =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Storm Rainfall=8.48"

A	rea (sf)	CN	Adj De	scription	
	2,406	98			avement, HSG A
	6,378	39	>7:	<u>5% Grass co</u>	ver, Good, HSG A
Tc	8,784 6,378 2,406 2,406 Length	55 Slope	72. 27. 10	61% Perviou 39% Impervi).00% Uncor	ous Area
(min)	(feet)	(ft/ft)			Description
5.0	()			/	Direct Entry,

Summary for Subcatchment P1: Proposed Yard Runoff

Runoff 0.25 cfs @ 12.09 hrs, Volume= 0.022 af, Depth> 1.67" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Storm Rainfall=8.48"

A	rea (sf)	CN	Adj Des	scription	
	588	98			avement, HSG A
	6,196	39	>75	% Grass co	ver, Good, HSG A
	6,784 6,196 588 588	44	91.3 8.6	ighted Avera 33% Perviou 7% Impervic 0.00% Uncor	bus Area
Tc (min)	Length (feet)	Slope (ft/ft)			Description
5.0					Direct Entry,

Summary for Subcatchment P2: Roof Runoff

Runoff 0.40 cfs @ 12.07 hrs, Volume= 0.032 af, Depth> 8.23" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type III 24-hr 100-Year Storm Rainfall=8.48"

Lot 2 Drainage Analysis

Prepared by ALAN Engineering, L.L.C. HydroCAD® 10.00-16 s/n 04219 © 2015 HydroCAD Software Solutions LLC

Page 9

A	rea (sf)	CN E	Description		
	2,000	98 F	Roofs, HSC	Э А	
	2,000	1	00.00% Im	npervious A	Area
	Length	Slope	Velocity	Capacity	Description
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)	
5.0					Direct Entry,

Summary for Reach P: Total Proposed Runoff

Inflow Area =	0.202 ac, 29.46% Impervious, Inflow De	epth > 1.40" for 100-Year Storm event
Inflow =	0.25 cfs @ 12.09 hrs, Volume=	0.023 af
Outflow =	0.25 cfs @ 12.09 hrs, Volume=	0.023 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Summary for Pond RD1: Roof Drain System

Inflow Area =	0.046 ac,100.00% Impervious, Inflow Dept	th > 8.23" for 100-Year Storm event
Inflow =	0.40 cfs @ 12.07 hrs, Volume= 0.	.032 af
Outflow =	0.14 cfs @ 12.30 hrs, Volume= 0.	.032 af, Atten= 64%, Lag= 13.9 min
Discarded =	0.05 cfs @ 11.59 hrs, Volume= 0.	.030 af
Primary =	0.09 cfs @ 12.30 hrs, Volume= 0.	.002 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 271.16' @ 12.30 hrs Surf.Area= 262 sf Storage= 328 cf

Plug-Flow detention time= 33.0 min calculated for 0.032 af (100% of inflow) Center-of-Mass det. time= 32.9 min (772.0 - 739.1)

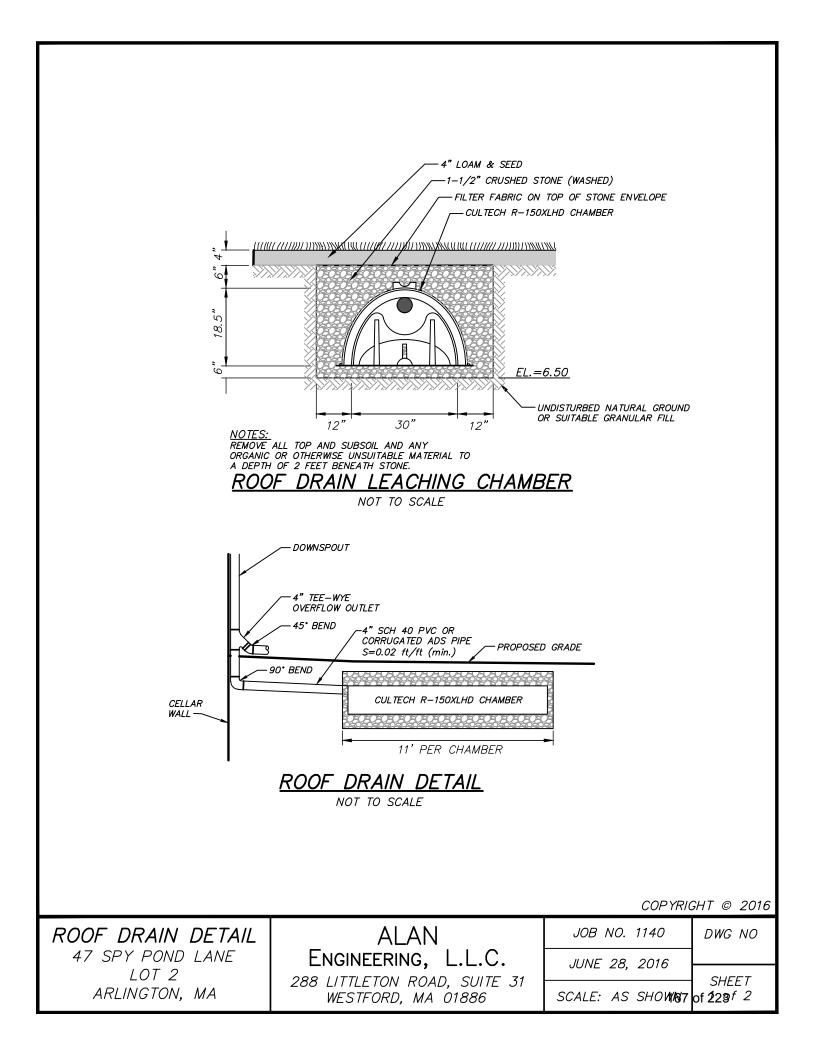
Volume	Invert	Avail.Storage	Storage Description
#1A	269.00'	198 cf	11.25'W x 23.25'L x 2.54'H Field A
			665 cf Overall - 169 cf Embedded = 496 cf x 40.0% Voids
#2A	269.50'	169 cf	Cultec R-150XLHD x 6 Inside #1
			Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf
			Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap
			Row Length Adjustment= +0.75' x 2.65 sf x 3 rows
		367 cf	Total Available Storage

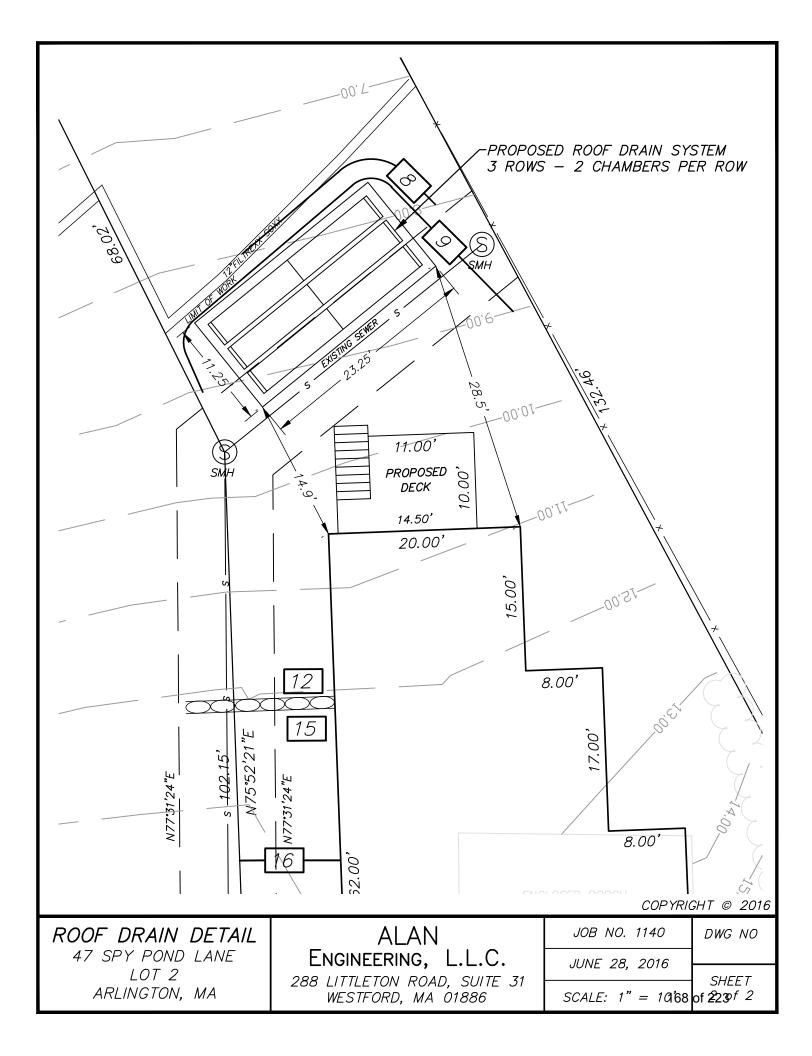
Storage Group A created with Chamber Wizard

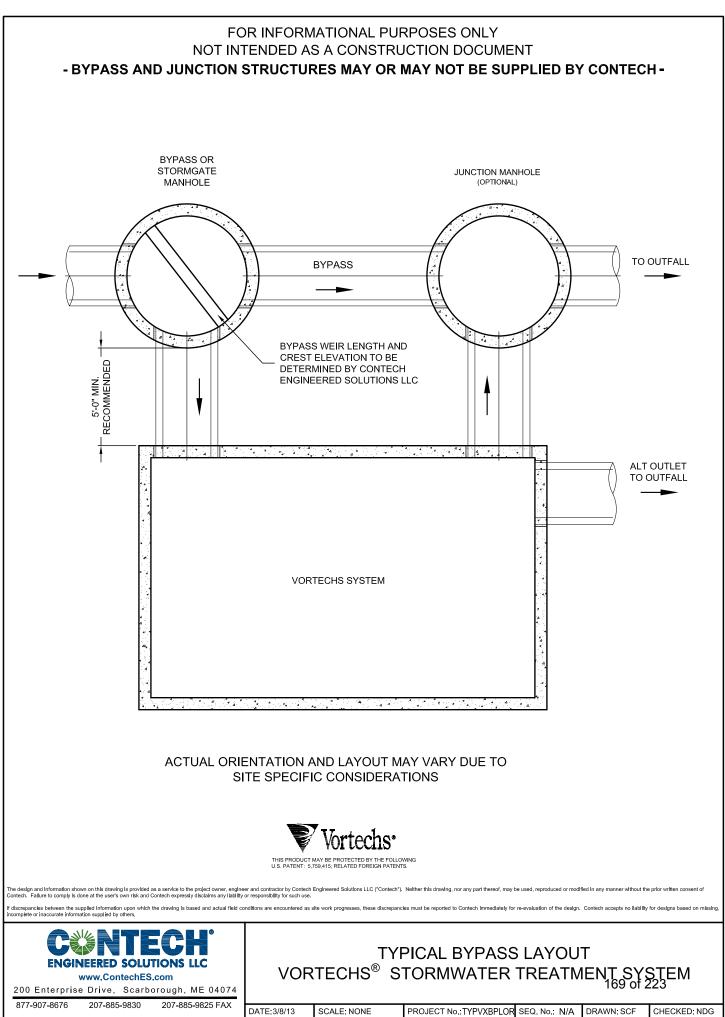
Device	Routing	Invert	Outlet Devices
#1	Discarded	269.00'	8.270 in/hr Exfiltration over Horizontal area
#2	Primary	271.00'	4.0" Round Culvert X 2.00
			L= 5.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 271.00' / 270.90' S= 0.0200 '/' Cc= 0.900
			n= 0.010 PVC, smooth interior, Flow Area= 0.09 sf

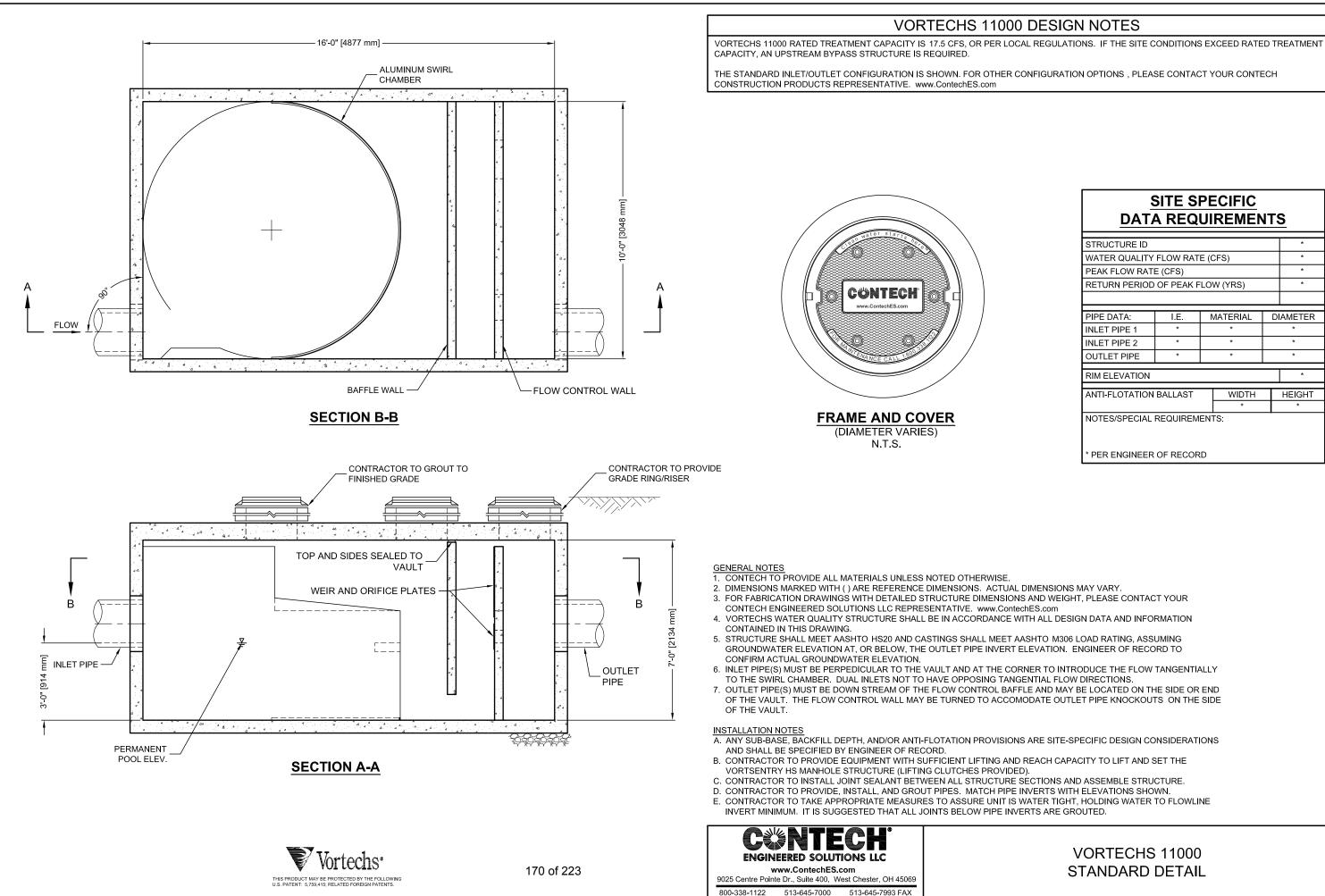
Discarded OutFlow Max=0.05 cfs @ 11.59 hrs HW=269.03' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.09 cfs @ 12.30 hrs HW=271.16' (Free Discharge) ←2=Culvert (Inlet Controls 0.09 cfs @ 1.09 fps)









VORTECHS 11000 DESIGN NOTES

SITE SPECIFIC **DATA REQUIREMENTS**

STRUCTURE ID							
RATI	E (0	CFS)		*			
5)				*			
EAK F	LO	W (YRS)		*			
- 1			D	AMETER			
		*		*			
* *			*				
* * *							
RIM ELEVATION *							
ANTI-FLOTATION BALLAST WIDTH HEIGHT							
*							
NOTES/SPECIAL REQUIREMENTS:							
* PER ENGINEER OF RECORD							
	AST	AST	AST WIDTH *	S) EAK FLOW (YRS) E. MATERIAL D * * * AST * AST WIDTH * IREMENTS:			

VORTECHS 11000 STANDARD DETAIL

VORTECHS SYSTEM[®] ESTIMATED NET ANNUAL TSS REDUCTION



Spy Pond Arlington, MA MODEL NAME VORTECHS 11000 SITE DESIGNATION VORTECHS

Design Ratio¹ =

(27 acres) x (0.9) x (449 gpm/cfs) (78.5 sf) = 138.9

Estimated bypass occurs at an elevation of 3.7' (at approximately 73 gpm/sf) above inlet invert* *assuming a weir length of 6 ft

Rainfall Intensity	Operating Rate ²	Treated Flow	% Total Rainfall	Rmvl. Effcy ⁴	Rel. Effcy		
"/hr	gpm/sf	cfs	Volume ³	(%)	(%)		
0.02	2.8	0.49	10.2%	100.0%	10.2%		
0.04	5.6	0.97	9.6%	100.0%	9.6%		
0.06	8.3	1.46	9.4%	100.0%	9.4%		
0.08	11.1	1.94	7.7%	99.8%	7.7%		
0.10	13.9	2.43	8.6%	99.8%	8.6%		
0.12	16.7	2.92	6.3%	99.6%	6.3%		
0.14	19.4	3.40	4.7%	99.4%	4.6%		
0.16	22.2	3.89	4.6%	99.1%	4.6%		
0.18	25.0	4.38	3.5%	99.8%	3.5%		
0.20	27.8	4.86	4.3%	98.5%	4.3%		
0.25	34.7	6.08	8.0%	96.3%	7.7%		
0.30	41.7	7.29	5.6%	92.7%	5.2%		
0.35	48.6	8.51	4.4%	88.8%	3.9%		
0.40	55.6	9.72	2.5%	84.5%	2.1%		
0.45	62.5	10.94	2.5%	79.9%	2.0%		
0.50	69.5	12.15	1.4%	74.8%	1.0%		
0.75	104.6	18.31	5.1%	0.0%	0.0%		
1.00	139.5	24.41	1.0%	0.0%	0.0%		
1.50	171.6	30.02	0.0%	0.0%	0.0%		
2.00	183.2	32.06	0.0%	0.0%	0.0%		
3.00	202.3	35.39	0.2%	0.0%	0.0%		
90.8%							
		% raiı	n falling at >0"/hr or by	/passing treatment =	0.2%		
		Assume	ed removal efficiency	for bypassed flows =	0.0%		
			Estimated redu	ction in efficiency ⁴ =	6.5%		
	Predicted Net Annual Load Removal Efficiency = 84%						
1 - Design Ratio = (Total D	1 - Design Ratio = (Total Drainage Area) x (Runoff Coefficient) x (cfs to gpm conversion) / Grit Chamber Area						
- The Total Drainage Area and Runoff Coefficient is specified by the site engineer.							
- The conversion factor from cfs to gpm is 449.							
2 - Operating Rate (gpm/sf) = intensity ("/hr) x Design Ratio.							
3 - Based on 10 years of hourly precipitation data from NCDC Station 770, Boston WSFO AP, Suffolk County, MA							
4- Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.							
Calculated by: CJA 5/8/15 Checked by:							

Project: Location:	Spy Pond Lane Arlington, MA	C NTECH
Prepared For:	Frederick Russell	ENGINEERED SOLUTIONS
Purpose:	To calculate the water quality flow rate (WQF) over a given site area. In this siderived from the first 1/2" of runoff from the contributing impervious surface.	tuation the WQF is
<u>Reference:</u>	Massachusetts Dept. of Environmental Protection Wetlands Program / United Agriculture Natural Resources Conservation Service TR-55 Manual	States Department of
Procedure:	Determine unit peak discharge using Figure 1 or 2. Figure 2 is in tabular form the tc, read the unit peak discharge (qu) from Figure 1 or Table in Figure 2. qu following units: cfs/mi ² /watershed inches (csm/in).	
	Compute Q Rate using the following equation:	
	Q = (qu) (A) (WQV)	
	where:	

Q = flow rate associated with first 1/2" of runoff

qu = the unit peak discharge, in csm/in.

A = impervious surface drainage area (in square miles) WQV = water quality volume in watershed inches (1/2" in this case)

Structure Name	Impv. (acres)	A (miles ²)	t _c (min)	t _c (hr)	WQV (in)	qu (csm/in.)	Q (cfs)
VX	27.00	0.0421875	15.0	0.250	0.50	606.00	12.78

Construction Period Operation & Maintenance Plan

Construction Period Stormwater Operation & Maintenance Plan

Site Redevelopment 47 Spy Pond Lane (Lot 2/B), Arlington, MA Erosion and Sedimentation will be controlled at the site by utilizing Structural Practices, Stabilization Practices, and Dust Control. These practices correspond with site plans submitted for the 47 Spy Pond Lane (Lot 1/A) project.

Responsible Party

Seaver Construction, Inc. 215 Lexington Street Woburn, MA 01801

City of Arlington Emergency Contact Information

Conservation Administrator

Town Hall 730 Massachusetts Avenue Arlington, MA (781) 316 3012

Project Summary

The project involves the construction of a new home, driveway, landscaping and utilities. A wetland resource area, ie Spy Pond, at the rear of the property requires diligence in ensuring that disturbance to the site does not cause erosion or detriment to the resource area. At the outset of the project, erosion controls shall be installed and maintained throughout the duration of the proposed work as follows.

Erosion & Sedimentation Control Practices

 Silt Sock Erosion Control Barrier – A Filter Mitt erosion control barrier, backed by an entrenched row of siltation control fencing, will be installed along downward slopes at the limit of work shown on the site plans. This control will be installed prior to soil disturbance on the site. The sediment fence should be installed as shown on the Site Plans.

Filter Mitt Inspection/Maintenance *

- a) Erosion control should be inspected immediately after each rainfall event of 1-inch or greater, and at least daily during prolonged rainfall. Inspect the depth of sediment, fabric tears, if the silt sock is securely attached to the ground, and to see that the stakes are firmly in the ground. Repair or replace as necessary.
- b) Remove sediment deposits promptly after storm events to provide adequate storage volume for the next rain and to reduce pressure on the sock. Sediment will be removed from behind the sock when it becomes about 3 inches deep at the fence. Take care to avoid undermining sock during cleanout.

- c) Remove all materials after the contributing drainage area has been properly stabilized. Sediment deposits remaining after the fabric has been removed should be graded to conform with the existing topography and vegetated.
- 2) Stabilized Construction Entrance A stabilized construction entrance shall be placed at the location of the proposed driveway, or at the location specified on the site plans. The stabilized entrance shall be installed immediately following the removal of the existing bituminous concrete driveway. The entrance will keep mud and sediment from being tracked onto Spy Pond Lane by vehicles leaving the site. This stabilized entrance shall be 15 feet long and as wide as the proposed drive.

Construction Entrance Design/Construction Requirements *

- a) Stone for a stabilized construction entrance shall consist of 1 to 3-inch stone placed on a stable foundation.
- b) Pad dimensions: The minimum length of the gravel pad should be 15 feet. The pad should extend the full width of the proposed driveway, or wide enough so that the largest construction vehicle will fit in the entrance with room to spare; whichever is greater. If a large amount of traffic is expected at the entrance, then the stabilized construction entrance should be wide enough to fit two vehicles across with room to spare.
- c) A geotextile filter fabric shall be placed between the stone fill and the earth surface below the pad to reduce the migration of soil particles from the underlying soil into the stone and vice versa. The filter fabric should be Amoco woven polypropylene 1198 or equivalent.

Construction Entrance Inspection/Maintenance *

- a) The entrance should be maintained in a condition that will prevent tracking or flowing of sediment onto Spy Pond Lane. This may require periodic topdressing with additional stone.
- b) The construction entrance and sediment disposal area shall be inspected weekly and after heavy rains or heavy use.
- c) Mud and sediment tracked or washed onto public road shall be immediately removed by sweeping.
- d) If washing facilities are used, the sediment traps should be cleaned out as often as necessary to assure that adequate trapping efficiency and storage volume is available.
- e) The pad shall be reshaped as needed for drainage and runoff control.
- f) All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after the temporary practices are no longer needed. Trapped sediment shall be removed or stabilized on site. Disturbed soil areas resulting from removal shall be permanently stabilized.

3) <u>Temporary Seeding</u> – Temporary seeding will allow a short-term vegetative cover on disturbed site areas that may be in danger of erosion. Temporary seeding will be done at stock piles and disturbed portions of the site where construction activity will temporarily cease for at least 21 days. The temporary seedings will stabilize cleared and unvegetated areas that will not be brought into final grade for several weeks or months.

Temporary Seeding Planting Procedures *

- a) Planting should preferably be done between April 1st and June 30th, and September 1st through September 31st. If planting is done in the months of July and August, irrigation may be required. If planting is done between October 1st and March 31st, mulching should be applied immediately after planting. If seeding is done during the summer months, irrigation of some sort will probably be necessary.
- b) Before seeding, install structural practice controls. Utilize Amoco supergro or equivalent.
- c) The seedbed should be firm with a fairly fine surface. Perform all cultural operations across or at right angles to the slope. A minimum of 2 to 4-inches of tilled topsoil is required. The topsoil must have a sandy loam to silt loam texture with 15% to 20% organic content.
- d) Apply uniformly 2 tons of ground limestone per acre (100 lbs. Per 1,000 sq.ft.) or according to soil test. Apply uniformly 10-10-10 analysis fertilizer at the rate of 400 lbs. per acre (14 lbs. per 1,000 sq.ft.) or as indicated by soil test. Forty percent of the nitrogen should be in organic form. Work in lime and fertilizer to a depth of 4-inches using any suitable equipment.
- e) Select the appropriate seed species for temporary cover from the following table.

Species	Seeding Rate	Seeding Rate	Recommended Seeding	Seed Cover
	(lbs/1,000 sq.ft.)	(lbs/acre)	Dates	required
Annual	1	40	April 1 st to June 1 st	¹ ⁄4 inch
Ryegrass			August 15 th to Sept. 15 th	
Foxtail	0.7	30	May 1 st to June 30 th	¹ / ₂ to ³ / ₄ inch
Millet				
Oats	2	80	April 1 st to July 1 st	1 to 1-1/2 inch
			August 15 th to Sept. 15 th	
Winter Rye	3	120	August 15 th to Oct. 15 th	1 to 1-1/2 inch

Apply the seed uniformly by hydroseeding, broadcasting, or by hand.

f) Use an effective mulch, such as clean grain straw; tacked and/or tied with netting to protect seedbed and encourage plant growth.

Temporary Seeding Inspection/Maintenance *

- a) Inspect within 6 weeks of planting to see if stands are adequate. Check for damage within 24 hours of the end to a heavy rainfall, defined as a 2-year storm event (i.e., 3.2 inches of rainfall within a twenty-four hour period). Stands should be uniform and dense. Fertilize, reseed, and mulch damaged and sparse areas immediately. Tack or tie down mulch as necessary.
- b) Seeds should be supplied with adequate moisture. Furnish water as needed, especially in abnormally hot or dry weather. Water application rates should be controlled to prevent runoff.
- 4) <u>Dust Control</u> Dust control will be utilized throughout the entire construction process of the site. For example, keeping disturbed surfaces moist during windy periods will be an effective control measure. The use of dust control will prevent the movement of soil to offsite areas. However, care must be taken to not create runoff from excessive use of water to control dust. The following are methods of Dust Control that may be used on-site:
 - Vegetative Cover The most practical method for disturbed areas not subject to traffic.
 - Sprinkling The site may be sprinkled until the surface is wet. Sprinkling will be effective for dust control on haul roads and other traffic routes.
 - Stone Stone will be used to stabilize construction entrances; will also be effective for dust control.
- 5) <u>Material Stockpiling</u> Material stockpiles shall be located as far from Wetland Resource Areas as possible and shall never be located within the 100-foot buffer zone as shown on the approved site plans. The preferred location for all stockpiles is at the front of the project locus between the house and Spy Pond Lane.

Post-Construction Stormwater Operation & Maintenance Plan

Site Redevelopment 47 Spy Pond Land (Lot 2/B), Arlington, MA Best Management Practices (BMPs) pursuant to the MA DEP Wetlands Protection Act, Arlington Wetlands Protection Bylaw and accepted design practice have been implemented and utilized for the project. The following information provided is to be used as a guideline for monitoring and maintaining the performance of the drainage facilities constructed as part of the site development. The structural Best Management Practices (BMPs) shall be inspected during rainfall conditions during the first year of operation to verify functionality.

Responsible Party

Homeowner

Town of Arlington Contact Information

Conservation Administrator

Town Hall

730 Massachusetts Avenue Arlington, MA (781) 316 3012

Maintenance:

- 1. <u>Infiltration Systems</u> Subsurface infiltration systems shall be inspected twice per year to verify that sediment is not being discharged into the system and that the system is functioning properly. If sediment depth within the system exceeds three inches, an experienced contractor or designer shall be contacted to consult on methods to clean and remediate the system. Furthermore, at least once per year, the system shall be inspected immediately following a heavy rainfall to ensure that the system drains within 72 hours of the end of said storm. If, after 72 hours, the system is still retaining water, the homeowner shall contact a licensed professional civil engineer to determine a method for remediating the system failure.
- 2. <u>Crushed Stone Infiltration Trench</u> The crushed stone infiltration trench at the edge of the driveway shall be cleaned of debris during regular landscape maintenance. A standard leaf blower can be used to remove debris from the stone surface. If the trench fails to drain after rainfall, the stone shall be removed, washed, and placed back in the trench after the bottom is scarified.
- 3. <u>Pesticides, Herbicides and Fertilizers:</u> Pesticides and herbicides shall not be used on the property. In addition, fertilizers that are used on the property shall be utilized sparingly and should be restricted to the use of organic fertilizers only

Storage and Disposal of Household Waste and Toxics:

This management measure involves educating the general public on the management considerations for hazardous materials. Failure to properly store hazardous materials dramatically increases the probability that they will end up in local waterways. Many people have hazardous chemicals stored throughout their homes, especially in garages and storage sheds. Practices such as covering hazardous materials or even storing them properly, can have dramatic impacts. Property owners are encouraged to support the household hazardous product collection events sponsored by the Town of Arlington.

MADEP has prepared several materials for homeowners on how to properly use and dispose of household hazardous materials:

http://www.mass.gov/dep/recycle/reduce/househol.htm

For consumer questions on household hazardous waste call the following number:

DEP Household Hazardous Waste Hotline 800-343-3420

Vehicle Washing:

This management measure involves educating the general public on the water quality impacts of the outdoor washing of automobiles and how to avoid allowing polluted runoff to enter the storm drain system. Outdoor car washing has the potential to result in high loads of nutrients, metals, and hydrocarbons during dry weather conditions in many watersheds, as the detergent-rich water used to wash the grime off our cars flows down the street and into the storm drain. The following management practices will be encouraged:

- Washing cars on gravel, grass, or other permeable surfaces.
- Blocking off the storm drain during car washing and redirecting wash water onto grass or landscaping to provide filtration.
- Using hoses with nozzles that automatically turn off when left unattended.
- Using only biodegradable soaps.
- Minimize the amounts of soap and water used. Wash cars less frequently.
- Promote use of commercial car wash services.

Landscape Maintenance:

This management measure seeks to control the storm water impacts of landscaping and lawn care practices through education and outreach on methods that reduce nutrient loadings and the amount of storm water runoff generated from lawns. Nutrient loads generated by fertilizer use on suburban lawns can be significant, and recent research has shown that lawns produce more surface runoff than previously thought.

Using proper landscaping techniques can effectively increase the value of a property while benefiting the environment. These practices can benefit the environment by reducing water use; decreasing energy use (because less water pumping and treatment is required); minimizing runoff of storm and irrigation water that transports soils, fertilizers, and pesticides; and creating additional habitat for plants and wildlife. The following lawn and landscaping management practices will be encouraged:

- Mow lawns at the highest recommended height.
- Minimize lawn size and maintain existing native vegetation.

- Collect rainwater for landscaping/gardening needs (rain barrels and cisterns to capture roof runoff).
- Raise public awareness for promoting the water efficient maintenance practices by informing users of water efficient irrigation techniques and other innovative approaches to water conservation.
- Abide by water restrictions and other conservation measures implemented by the Town of Arlington.
- Water only when necessary.
- Use automatic irrigation systems to reduce water use.



Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

epartment of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor

> Matthew A. Beaton Secretary Martin Suuberg

Martin Suuberg Commissioner

December 29, 2016

RE: WETLANDS/ARLINGTON DEP File #091-0275 47 Spy Pond Lane (Lot B) Superseding Order of Conditions/Approval

Seaver Construction c/o Ms. Mary Trudeau

Lexington, MA 02420

141 Lowell Street

Dear Mr. Seaver:

reasons MassDEP has deemed necessary to protect the statutory interests identified in the issuing the enclosed Superseding Order of Conditions ("SOC") allowing the project based upon: Massachusetts Department of Environmental Protection, Wetlands Program ("MassDEP"), is Massachusetts General Laws, Chapter 131, Section 40, the Northeast Regional Office of the 1) information and plans submitted; 2) information gathered during the site inspection; and 3) Wetlands Protection Act and Regulations. Following an in-depth review of the file referenced above, and in accordance with

described in the Notice of Intent ("NOI"), the proposed project entails the subdivision of the property into two lots, Lot A and Lot B. This SOC pertains to the work proposed on Lot B construction of a new single-family home, deck, driveway, infiltration basin and plantings along Spy Pond. An existing single family home, driveway and patio currently exist on the site. As the edge of Spy Pond. which involves the removal of the existing single-family home, driveway and patio and The project site is located at 47 Spy Pond Lane in Arlington, Massachusetts and abuts

issued an Order of Conditions ("OOC") denying the project based on its opinion that the planting clearly within the standards set for work within one hundred feet of jurisdictional wetlands, and protection needed within the 100-foot setback to protect the interests identified in M.G.L. c. 131, no alteration of jurisdictional resource areas are proposed in the Notice of Intent application." 40." You filed an appeal on November 7, 2015 based on your opinion that the "work proposed is Vegetated Wetlands 10.55, Bank 10.54, Land Under Water 10.56, especially the level of "not address the underlying failure to comply with the performance standards for Bordering plan, located within an area of lawn within the buffer zone and along the edge of Spy Pond, does On October 26, 2016, the Arlington Conservation Commission (the "Commission"

This information is available in alternate format. Call the MassDEP Diversity Office at 617-556-1139. TTY# MassRelay Service 1-800-439-2370 MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

On December 14, 2016, MassDEP conducted a site inspection. In attendance were your representative, the property owner and members of the Commission. During the site visit, the proposed project was discussed and the group walked the project site to observe existing site conditions and the location of the proposed development.

These areas are significant to the statutory interests listed on the attached form. The site is also designated as Priority Habitat for rare and endangered species. A letter, dated July 8, 2016, from the Division of Fisheries and Wildlife (the "Division") states that it is the Division's "BVW"), Inland Bank, Land Under Water ("LUW") and Bordering Land Subject to Flooding MassDEP's review of the file and site inspection confirms that the project site contains opinion that the project will not adversely affect the actual habitat of the state-protected rare wildlife species and will not result in a prohibited "take" of state listed rare wildlife species. the following Areas Subject to Protection under the Act: Bordering Vegetated Wetlands ŕ"BLSF").

will be scattered within the buffer zone between the proposed home and Spy Pond. The planting These structures are proposed approximately 70 feet from the A small section of the proposed house and the deck will be located within the buffer zone plan for both areas is shown on the project plan titled, "Planting Plan in Arlington, Mass," dated August 16, 2016, final revision date of September 26, 2016. closest wetland resource area. The remainder of the house and driveway will be located outside jurisdiction of the Wetlands Protection Act. An area of the existing lawn adjacent to Spy Pond vegetation in order to restore the BVW. Plantings consisting of native and indigenous species was determined to be BVW. The applicant has proposed replanting this area with wetland to BVW, Inland Bank and LUW.

these findings, please consult the language in the Order that specifies your rights and procedures However, MassDEP reserves the right, should there be further proceedings in this case, to raise additional issues and present further evidence as may be appropriate. Should any party dispute site inspection, it is MassDEP's opinion that the project will not impact wetland resource areas. Based on a review of the information provided in the file and observations made at the interests of the Act, Massachusetts General Laws, Chapter 131, Section 40. Please be advised It is MassDEP's opinion that the enclosed SOC allowing the project serves to protect the that it is MassDEP's responsibility to address only those interests identified in the Act. for appeal.

185 of 223

Should you have any questions, please contact Jill Provencal at (978) 694-3250.

Sincerely,

Rachel-

Rachel Freed Deputy Regional Director Bureau of Water Resources – NERO

Wetlands Program - NERO Environmental Analyst

cc: Arlington Conservation Commission, Town Hall Annex, 730 Massachusetts Ave., Arlington, MA 02476 Mr. Harold Boucher, Trustee, Boucher Family Trust, 47 Spy Pond Lane, Arlington, MA 02476

.

187 of 223

SL		
Superseding Order of Conditions • Page 1 of 15		
nditions • Page 1 of 15		

soc.doc – 4/22/2015 Formatted for Registry of Deeds

>	
22	

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 091-0275 MassDEP File #

A. General Information

5	្មប		4	ယ	<u>2</u> .
Latitude and Longitude, if known:	Project Location: <u>47 Spy Pond Lane – Lot B</u> <u>a. Street Address</u> <u>12</u> c. Assessors Map/Plat Number	c. Organization 47 Spy Pond Lane d. Mailing Address Line 1 Arlington e. City/Town	c. Organization 215 Lexington Street d. Mailing Address Line 1 Woburn e. City/Town Property Owner (if different from applicant): Harold a. First Name Boucher Family Trust	To: Applicant: <u>Scott Seaver</u> a. First Name, Last Name	Northeast Regio Massachusetts Depa This issuance is for (check one):
, if known:	– Lot B Number		different from ap	ซี	Northeast Regional Office Massachusetts Department of E for (check one):
			plicant):		Office lent of Environment a. ⊠ Superseo b. ☐ Amendeo
e. Latitude	Arlington b. City/Town 4-2 d. Parcel/Lot Number	MA f. State	MA f. State Boucher, Trustee b. Last Name	Seaver Construction b. Company	Northeast Regional Office Massachusetts Department of Environmental Protection (MassDEP/the Department) for (check one): a. X Superseding Order of Conditions b. Amended Superseding Order of Conditions
f. Latitude		02474 g. Zip Code	01801 g. Zip Code		ment) ditions

,

188 of 223

			Massachusetts Department of Environm Bureau of Resource Protection – Wetlands Superseding Order of Conditions Massachusetts Wetlands Protection Act M.	epartme ce Protec Drder o etlands P	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	ection §40	MassDEP File # 091-0275
	A	A. Genera	General Information (cont'd)	(cont'd)			
	Ö		ecorded at the Regis	stry of De	Property recorded at the Registry of Deeds (attach additional information if more than one parcel):	nation if more	than one parcel):
		Middlesex a. County 31315			b. Cert 438	b. Certificate (if registered land) 438	ed land)
	7.	c. Book Dates:	June 1, 2016 a. Date NOI Received	77	d. Page October 6, 2016 b. Date Local Order Issued		December 14, 2016 c. Date of SOC Site Visit
	α	Final Apprc	oved Plans and Othe	er Docum	Final Approved Plans and Other Documents (attach additional plans or document references):	s or documen	it references):
		"Proposed a. Plan Title	"Proposed Plan in Arlington, MA" a. Plan Title	Α"			
		<u>Keenan Survey</u> b. Prepared By May 3, 2016	<u>ay</u> 6		James Richard Keenan, P.L.S. No. c. Signed and Stamped By 1" = 10'	d Keenan, P.L mped By	.S. No. 30751
		d. Final Revision Date See Condition #20	ion Date ion #20		e. Scale		
			f. Additional Plan or Document Title				g. Date
	ш.	. Findings	S				
	, '	Findings pu referenced finds that th Protection /	Findings pursuant to the Massachu referenced Notice of Intent and bas finds that the areas in which work is Protection Act. Check all that apply	achusetts based o <u>ork is pro</u> pply:	Findings pursuant to the Massachusetts Wetlands Protection Act - Following the review of the above- referenced Notice of Intent and based on the information provided in this application, the Department finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act. Check all that apply:	Following the n this applicat <u>sllowing intere</u>	review of the above- tion, the Department ists of the Wetlands
189		a. 🛛 Pub	Public Water Supply	þ.	Land Containing Shellfish	c. 🛛 Pre	Prevention of Pollution
9 of 223		d. 🛛 Priv	Private Water Supply	ы ы	Fisheries	f. 🛛 Pro Hat	Protection of Wildlife Habitat
3		g. 🛛 Gro	Groundwater Supply	Ы. Ч.	Storm Damage Prevention	⊠ .—	Flood Control
	i,	This Departr	ment hereby finds the	e project,	This Department hereby finds the project, as proposed, is (check one):		
		Approved subject to:	subject to:				
	່ຫ	the follo forth in t accorda other sp or differ these co	the following conditions which forth in the wetlands regulatio accordance with the Notice of other special conditions attac or differ from the plans, speci these conditions shall control.	ich are ne tions. Th of Intent ached to scification ol.	the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. The Department orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.	the performa work shall be wing General at the followin itted with the h	ance standards set e performed in Conditions, and any ig conditions modify Notice of Intent,
					•	:	•

ł

*

1

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 2 of 15

ons • Page 3 of 1	Superseding Order of Conditions • Page 3 of 15	Supersedin		soc.doc – 4/22/2015 Formatted for Registry of Deeds
JW.	stal Dunes belc	ches and/or Coas	der Coastal Beau	13. Barrier Beaches - Indicate size under Coastal Beaches and/or Coastal Dunes below.
		d. c/y dredged	c. c/y dredged	
		b. square feet	a. square feet	12. 🔲 Land Under the Ocean
Permitted Replacement	Proposed Replacement	Permitted Alteration	Proposed Alteration	
	below	Jnder the Ocean,	ize under Land L	11. Designated Port Areas - Indicate size under Land Under the Ocean, below
a. linear feet	rbance and	it of project distur	ince between lim	10. ☐ Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
	als Only)	Check all that apply below. (For Approvals Only)	all that apply bel	Coastal Resource Area Impacts: Check
j. square feet	i. square feet	h. square feet	g. square feet	Sq feet between 100-200 teet
f. square feet	e. square feet	d. square feet	c. square feet	Sq feet within 100 feet
		b. total sq. feet	a. total sq. feet	9. 🔲 Riverfront area
f. cubic feet	e. cubic feet	d. cubic feet	c. cubic feet	Cubic Feet Flood Storage
		b. square feet	a. square feet	8. Isolated Land Subject to Flooding
h. cubic feet	g. cubic feet	f. cubic feet	e. cubic feet	Cubic Feet Flood Storage
d. square feet	c. square feet	b. square feet	a. square feet	7 Bordering Land Subject to Flooding
		f. c/y dredged	e. c/y dredged	
d. square feet	c. square feet	b. square feet	a. square feet	 Eand Under Waterbodies and Waterways
d. square feet	c. square feet	b. square feet	a. square feet	5. Device Bordering Vegetated Wetland
d. linear feet	c. linear feet	b. linear feet	a. linear feet	4. 🔲 Bank
Permitted Replacement	Proposed Replacement	Permitted Alteration R	Proposed Alteration	Resource Area
a. linear feet	s Only) bance and	 (For Approvals Only) t of project disturbance 	Check all that apply below. rtest distance between limit able)	 Inland Resource Area Impacts: Check all that apply below. (For Approvals Only) Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
				B. Findings (cont'd)
275	091-0275	Program G.L. c. 131, §40	tion – Wetlands F F Conditions rotection Act M.G	Bureau of Resource Protection – Wetlands Prog Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L.
MassDEP File #	MassD	ntal Protection	nt of Environme	Massachusetts Department of Environmental Protection

••

190 of 223

MassDEP File #	091-0275			c. c/y d. c/y nourish.	c. c/y d. c/y nourish.			c. square d. square feet			c. square d. square feet	ler the Ocean, and/or				e. square feet	i. square j. square feet	ds Protection Act
vironmental Protection /etlands Program	l itions n Act M.G.L. c. 131, §40			are feet b. square feet	are feet b. square feet	ır feet b. linear feet	ire feet b. square feet	re feet b. square feet	re feet b. square feet	redged d. c/y dredged	re feet b. square feet	ks, inland Bank, Land Unc 's, above	edged b. c/y dredged	e feet b. square feet	sq. feet b. total sq. feet	e feet d. square feet	e feet h. square feet	achusetts Wetland
Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program	Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	B. Findings (cont'd)	14. 🔲 Coastal Beaches	a. square feet	16. Coastal Banks	a. linear feet a. Rocky Intertidal Shores	a. square feet a. square feet	19. Tand Under Salt Ponds	a. square feet	20. Land Containing Shellfish	a. square feet	21.	[23. Riverfront area	et within 100 reet c. square feet Sq feet between 100-200 feet	g. square feet	C. General Conditions Under Massachusetts Wetlands Protection Act

Brief Project Description of Permitted Activities:

The construction of a single-family home, driveway, grading, retaining wall, infiltration basin, deck and plantings.

- A

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File #

091-0275

ဂ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

(only applicable to approved projects)

- <u>-</u> Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- 2 injury to private property or invasion of private rights. The Order does not grant any property rights or any exclusive privileges; it does not authorize any
- ω This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

192 of 223

- 4 unless either of the following apply: The work authorized hereunder shall be completed within three years from the date of this Order
- ß the work is a maintenance dredging project as provided for in the Act; or
- σ years, the extension date and the special circumstances warranting the extended time period are than five years, from the date of issuance. If this Order is intended to be valid for more than three the time for completion has been extended to a specified date more than three years, but less set forth as a special condition in this Order.
- ċη This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
- တ Order of Conditions does not extend the issuance date of the original Final Order of Conditions and If this Order constitutes an Amended Superseding Order of Conditions, this Amended Superseding Superseding Order will expire on unless extended in writing by the Department. l the
- 7 rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse
- œ This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
- ဖ of the affected property. In the case of recorded land, the Final Order shall also be noted in the be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title No work shall be undertaken until the Order has become final and then has been recorded in the must be stamped by the Registry of Deeds, prior to the commencement of work. information shall be submitted to the Department on the form at the end of this Order, which form Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to
- 10 size A sign shall be displayed at the site not less than two square feet or more than three square feet in bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MA DEP"]

"File Number 091-0275

MassDEP File # 091-0275	on Act (cont.) uperseding Order, the arings before DEP.	equest for Certificate of	order.	pplicant to inquire of the filing of a new Notice of	of Environmental der at reasonable hours ire the submittal of any that evaluation.	in control of the g work conditioned by	ing Vegetated Wetland, marked by wooden ntained until a	Lareas have been fully sited in a wetland or ct the erosion controls plicant shall immediately notify the age prevention controls < unless another limit of	JIREMENTS	ubject to the mwater Standards,	lopment, shall be ind erosion and tion Plan required by rmit as required by tion control measures ullv stabilized.	
ıvironmental Protection /etlands Program litions า Act M.G.L. c. 131, §40	setts Wetlands Protect tion is requested to issue a S I agency proceedings and he	the applicant shall submit a R of Environmental Protection.	I conditions referenced in this	#13 above shall require the a inificant enough to require the	mmission and the Departmen ect the area subject to this Or ed in this Order, and may requ ommission or Department for	sessor in interest or successo ctor or other person performir	ves work adjacent to a Bordel proposed work area shall be oundary markers shall be ma e Department.	Lgood repair until all disturbed time shall sediments be depo r his/her designee shall inspe sediments as needed. The ap ccur at the site and shall also additional erosion and/or dam shall serve as the limit of wor	- AND MAINTENANCE REQ	oject") is (₁)	eparation, land disturbance, construction and redevelopment, shall be toe with the construction period pollution prevention and erosion and in and, if applicable, the Stormwater Pollution Prevention Plan required by scharge Elimination System Construction General Permit as required by Construction period erosion, sedimentation and pollution control measures actices (BMPs) shall remain in place until the site is fully stabilized.	• •
Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	 C. General Conditions Under Massachusetts Wetlands Protection Act (cont.) 11. Where the Department of Environmental Protection is requested to issue a Superseding Order, Conservation Commission shall be a party to all agency proceedings and hearings before DEP. 	Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Department of Environmental Protection.	The work shall conform to the plans and special conditions referenced in this order.	Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Department in writing whether the change is significant enough to require the filing of a new Notice of Intent.	The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.	This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.	Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Department.	All sedimentation barriers shall be maintained in good repair until all disturbed areas-have been-fully- stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Department, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.	NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS	The work associated with this Order (the "Project") is $(1) \square$ is not $(2) \boxtimes$ subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:	All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measure and best management practices (BMPs) shall remain in place until the site is fully stabilized.	
	C. General 11. Where the Conserval	12. Upon com Compliano	13. The work	14. Any chang Departme Intent.	15. The Agent Protection to evaluate data deerr	16. This Order property su this Order.	17. Prior to the the bound stakes or f Certificate	18. All sedime stabilized v water body on a daily l immediate Departmer it may dee work line h	ON	19. The work Massachu then the p	 a) All work, in implements sedimentat the Nations Stormwate and best m 	
								193 of 223				

Superseding Order of Conditions • Page 6 of 15

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Department of Environmental Protection

091-0275

MassDEP File

#

ဂ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

g No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until Registered Professional Engineer provides a Certification that: മ

prepared for post construction operation, including removal of all construction period sediment operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned the Certification. For any construction period BMPs intended to be converted to post construction trapped in inlet and outlet control structures; all construction period BMPs have been removed or will be removed by a date certain specified in Q

as-built final construction BMP plans are included, signed and stamped by a Registered

Professional Engineer, certifying the site is fully stabilized; *iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;

planting plans) approved by the issuing authority, and have been inspected to ensure that they are iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all

not damaged and that they are in proper working condition; *v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion

- <u></u> following: *i*.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii*.) the future responsible parties shall be notified in writing of their ongoing legal Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMPs Operation and Maintenance Plan ("O&M Plan") and certifying the responsibility to operate and maintain the stormwater management BMPs and implement the 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of The landowner is responsible for BMP maintenance until the issuing authority is notified that another Stormwater Pollution Prevention Plan.
- ٩ Post-construction pollution prevention and source control shall be implemented in accordance with System Multi-Sector General Permit. the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination
- ⊕ maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that Unless and until another party accepts responsibility, the landowner, or owner of any drainage plan and easement deed that grants the responsible party access to perform the required operation and acceptable to the issuing authority, evidencing that another entity has accepted responsibility for landowner of the property must submit to the issuing authority a legally binding agreement of record, easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the and maintenance must be submitted along with the legally binding agreement. Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. BMP. Any failure of the proposed responsible party to implement the requirements of Conditions ⊳
- Ţ plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook The responsible party shall operate and maintain all stormwater BMPs in accordance with the design

C. Ger abov. Site abov. See ab	Massachusetts Department of Environmental Protection MassDEP File # Bureau of Resource Protection – Wetlands Program MassDEP File # Bureau of Resource Protection – Wetlands Program MassDEP File # Bureau of Resource Protection – Wetlands Program MassDEP File # Bureau of Resource Protection – Wetlands Program MassDEP File # Bureau of Resource Protection – Wetlands Program MassDEP File # Bureau of Resource Protection – Wetlands Protection Act M.G.L. c. 131, §40 091-0275	General Conditions Under Massachusetts Wetlands Protection Act (cont.)	 Responsible party shall: Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location); Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements. 	IOLE EACH DIMP ESTADISHED IN THE UXMIN PLAN APPROVED BY THE ISSUING AUTHOMY. All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.	Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.	stormwater management system approved in the Order of Conditions shall not be changed out the prior written approval of the issuing authority.	Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.	Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.	Special Conditions (See attached sheet(s) or below for additional Special Conditions numbered <u>20</u> through 38.	attached			soc.doc – 4/22/2015 Superseding Order of Conditions • Page 8 of 15
		. Genera	The res 1. 3.	All sedim accordar	Illicit disc		Areas de (as define Site Desi	Access fi construct above gr	Special (numbere				c.doc – 4/22/

	27. Members and agents of MassDEP and the Arlington Conservation Commission shall have the right to enter and inspect the premises to evaluate compliance with the conditions contained in this Superseding Order, and may require the submittal of any data deemed necessary by MassDEP for that evaluation.	26. Any proposed or executed change in the plans approved under this Superseding Order shall require the applicant to file a new Notice of Intent with the conservation commission or to inquire of MassDEP in writing whether the change is substantial enough to require a new filing. A copy shall be sent at the same time to the Arlington Conservation Commission. Any errors in the plans or information submitted by the applicant shall be considered changes and the above procedures shall be followed.	25. This Superseding Order shall apply to any successor or assigns in interest or control and any other party engaging in activity on the property identified in the Notice of Intent.	24. No work shall commence on-site until all appeal periods have elapsed and this Superseding Order of Conditions has been recorded with the Registry of Deeds and MassDEP has been formally notified via the form provided at the end of this Order.	23. A copy of this Superseding Order as well as the plans and reports referenced in Condition #20 shall be available on site while activities regulated by this Order are being performed. In addition to the owners, all contractors and subcontractors shall be held responsible for compliance with this Superseding Order.	22. A copy of this Superseding Order shall be included in all construction contracts and shall supersede any conflicting requirements.	21. This Superseding Order supersedes all previous Orders issued for this project, DEP File #091-0275. All work shall conform to the Notice of Intent and plans and documentation referenced above unless otherwise specified in this Superseding Order. In case of a conflict, the Conditions of this Superseding Order shall prevail.	f Drain Detail, 47 Spy Pond Lane, Lot 2, Arlington, MA," prepared by Al ., dated June 28, 2016.	c) "Planting Plan in Arlington, Mass," prepared by Keenan Survey, final revision date September 26, So 2016	, inal revision date May 5, 2010. tion Stormwater Operation and Maintenance Plan, 47 Spy Pond	a) "Proposed Land in Arlington, Mass," prepared by Keenan Survey, stamped by James Richard	20. All work shall conform with the following plans, reports and special conditions:	Special Conditions	SUPERSEDING ORDER OF CONDITIONS DEP File Number 091-0275
--	---	--	--	---	--	--	---	--	--	--	--	--	--------------------	---

.

28. The applicant shall employ a wetland professional to oversee all plantings proposed within the BVW buffer zone and report in writing to MassDEP and the Arlington Conservation Commission once a month, during construction, to confirm that all activities are in compliance with the planting plan (referenced in Condition #20). The report shall, at a minimum, include a description of the relative health of the planted species and shall make recommendations for replacement of plants if needed.	all employ a wetland professional to oversee all plantings proposed within the BVW and ort in writing to MassDEP and the Arlington Conservation Commission once a month, to confirm that all activities are in compliance with the planting plan (referenced in e report shall, at a minimum, include a description of the relative health of the planted ke recommendations for replacement of plants if needed.
29. Any changes proposed to the plants listed in the planting plan (referenced in Condition #20) shall be reviewed and approved by MassDEP prior to placement.	olan (referenced in Condition #20) shall be
30. Prior to the start of work, the applicant shall submit a construction sequence to MassDEP and the Arlington Conservation Commission, for approval by MassDEP. The construction sequence shall include a plan showing the location of any material stockpile areas and any temporary, construction period, stormwater BMPs.	of work, the applicant shall submit a construction sequence to MassDEP and the Arlington ission, for approval by MassDEP. The construction sequence shall include a plan showing aterial stockpile areas and any temporary, construction period, stormwater BMPs.
31. Prior to the start of work, erosion controls consisting of silt fence and staked haybales shall be installed between the limits of work and the wetland resource areas. These barriers shall serve as the limit of disturbance and shall be installed as close to the work area as possible. Erosion controls shall remain in place until MassDEP approves their removal. If work occurs during the winter months, the applicant shall install orange snow fencing along the erosion control line in order to provide a more visible barrier.	of work, erosion controls consisting of silt fence and staked haybales shall be installed f work and the wetland resource areas. These barriers shall serve as the limit of disturbance l as close to the work area as possible. Erosion controls shall remain in place until their removal. If work occurs during the winter months, the applicant shall install orange the erosion control line in order to provide a more visible barrier.
32. No soil or other materials shall be stockpiled within 100 feet of wetland resource areas	et of wetland resource areas.
33. Upon completion of construction, all exposed soils shall be seeded with appropriate vegetation or otherwise stabilized by a method acceptable to the MassDEP and Arlington Conservation Commission.	e seeded with appropriate vegetation or otherwise on Conservation Commission.
34. At no time during or after construction shall fill or other materials be placed, slump into or fall beyond the limit of grading as shown on the plan. The Environmental Monitor shall be responsible for inspecting and maintaining all slopes and shall immediately notify the MassDEP and the Arlington Conservation Commission if slumping, erosion-or-encroachment occurs.	g or after construction shall fill or other materials be placed, slump into or fall beyond the nown on the plan. The Environmental Monitor shall be responsible for inspecting and is and shall immediately notify the MassDEP and the Arlington Conservation Commission or encroachment occurs.
35. Excess soil, rock and debris excavated or generated during the course of this project shall be removed from the site and disposed of in a legal manner. Records of the destination of all materials, including excess fill and domn, to be removed from the site shall be kept on file and shall be provided to the MassDEP and the Arlington conservation Commission upon request.	and debris excavated or generated during the course of this project shall be removed from of in a legal manner. Records of the destination of all materials, including excess fill and from the site shall be kept on file and shall be provided to the MassDEP and the Arlington ission upon request.
36. Storing, servicing or cleaning of equipment, including but not limited to fueling, changing, adding or applying lubricants or hydraulic fluids, or washing/rinsing of trucks or equipment, shall be performed outside the 100-foot buffer zone.	not limited to fueling, changing, adding or ucks or equipment, shall be performed outside
37. During work on this project, there shall be no discharge or spillage of fuel, oil or other pollutants, including sediments, onto any part of the site. The applicant shall take all reasonable precautions to prevent the release of pollutants by ignorance, accident or vandalism.	spillage of fuel, oil or other pollutants, including I reasonable precautions to prevent the release of
38. Upon completion of the project, the applicant shall request a Certificate of Compliance from the MassDEP and shall submit the following information with the request:	a Certificate of Compliance from the MassDEP
soc.doc – 4/22/2015 Formatted for Registry of Deeds	Superseding Order of Conditions • Page 14 of 15

æ A written statement by a professional engineer or land surveyor registered in the Commonwealth of Order of Conditions and setting forth deviations, if any exist; Massachusetts certifying compliance with the approved plans referenced above and this Superseding

- ઉ An as-built site plan prepared by a registered land surveyor or registered professional engineer showing stormwater BMP, and site grading on the project site. location and grades of the project, including but not limited to: the single-family home, deck, driveway,
- C A final plan and report showing the location, number and health of the plants shown on the planting plan referenced in Condition #20.

.

199 of 223

		-			Date	by Hand	This Order is is:	Deputy Regional Rachel Freed Deputy Regional	Northeast MassDEP Regional Office	Issued by: Mas	This Order is va as a special cor	E. Issuance	To the exte Massachus supersede t	D. Finding			
	•					by Hand delivery on	This Order is issued to the applicant as follows:	Deputy Regional Director Signature Rachel Freed Deputy Regional Director Printed Name	lional Office	Issued by: Massachusetts Department of Environmental Protection:	This Order is valid for three years from the date of issuance, unless otherwise specified as a special condition pursuant to General Conditions # 4 or # 6.	Ð	To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no jurisdiction to supersede the local by-law order.	Findings Under Municipal Wetlands Bylaw or Ordinance	Massachusetts V	Superseding	Massachusetts
							ant as follows:	ame		epartment of	s from the date of General Conditio		s based on a mur stection Act or reg rder.	nicipal Wetl	Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	Superseding Order of Conditions	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program
	·				レタ・シイ・ル Date - Certified Mail #	⊠ by cer		Date	20/ cl	Environment	issuance, unless ons # 4 or # 6.		nicipal bylaw or or ulations, the Dep	ands Bylaw	on Act M.G.L. c. 1	ditions	Netlands Program
					<i>⊋Q · 16</i> ertified Mail #	\boxtimes by certified mail on:			2/6	al Protection	otherwise speci		rdinance, and no artment has no	or Ordina	131, §40		notection
-											fied		ot on the jurisdiction to	nce		091-0275	MassDEP File #
																	#

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 9 of 15

.

200 of 223

÷ .

5

Massachusetts Department of Environmental ProtectionMassDEP File #Bureau of Resource Protection – Wetlands ProgramMassDEP File #Superseding Order of Conditions091-0275Massachusetts Wetlands Protection Act M.G.L. c. 131, §40091-0275	Appeal Rights and Time Limits	The applicant, the landowner, the conservation commission, any person aggrieved by the Superseding Order, Determination or other Reviewable Decision as defined at 310 CMR 10.04, who previously participated in the proceedings leading to this Reviewable Decision, the conservation commission, or any ten (10) residents of the city or town where the land is located if at least one resident was previously a participant in the permit proceeding, are hereby notified of their right to appeal this Reviewable Decision pursuant to M.G.L. c.30A, § 10, provided the request is made by certified mail or hand delivery to the Department, along with the appropriate filing fee and a MassDEP Fee Transmittal Form within ten (10) business days of the date of issuance of this Superseding Order	Case Administrator Office of Appeals and Dispute Resolution Massachusetts Department of Environmental Protection One Winter Street, 2 nd Floor Boston, MA 02108	A copy of the request (hereinafter also referred to as Appeal Notice) shall at the same time be sent by certified mail or hand delivery to the Conservation Commission, the applicant, the person that requested the Superseding Order or Determination, and the issuing office of the MassDEP at:	MassDEP – Northeast Region Wetlands Program 205B Lowell Street Wilmington, MA 01887	e event that a ten-resident group requested the Superseding Order or Determination, the Appeal se shall be served on the designated representative of the ten resident group, whose name and act information is included in this Reviewable Decision (when relevant).	tents of Appeal Notice	An Appeal Notice shall comply with the Department's Rules for Adjudicatory Proceedings, 310 CMR 1.01(6) and 310 CMR 10.05(7)(j), and shall contain the following information: a) the MassDEP Wetlands File Number, name of the applicant, landowner if different from applicant, and address of the project;	the complete name, mailing address, email address, and fax and telephone numbers of the party filing the Appeal Notice; if represented by consultant or counsel, the name, fax and telephone numbers, email address, and mailing address of the representative; if a ten residents group, the same information for the group's designated representative;	if the Appeal Notice is filed by a ten (10) resident group, then a demonstration of participation by at least one resident in the previous proceedings that led to this Reviewable Decision;	if the Appeal Notice is filed by an aggrieved person, then a demonstration of participation in the previous proceeding that lead to this Reviewable Decision and sufficient written facts to demonstrate status as a person aggrieved;	the names, telephone and fax numbers, email addresses, and mailing addresses of all other interested parties, if known;	
	F. Appe	The ap Supers Previou commis residen appeal certified Fee Tra Fee Tra		A copy certified request		In the e Notice s contact	Contei	An App 1.01(6) a) the and	b) the filing num sam	c) if th at le	d) if th prev dem	e) the inter	
							201	of 223				• • •	

1

-

`

1

Superseding Order of Conditions • Page 10 of 15



Superseding Order of Conditions Bureau of Resource Protection – Wetlands Program Massachusetts Department of Environmental Protection

MassDEP File #

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

091-0275

Π. Appeal Rights and Time Limits (cont.)

- Ĵ protection of the interests identified in the Wetlands Protection Act, M.G.L. c.131, § 40, including reference to the statutory or regulatory provisions that the party filing the Appeal Notice alleges has been violated by the Department's Decision, and the relief sought, including any specific desired changes to the Department's decision; how each alleged error in inconsistent with 310 CMR 10.00 and does not contribute to the a clear and concise statement of the alleged errors contained in the Department's decision and
- g a copy of the Department's Reviewable Decision that is being appealed and a copy of the underlying Conservation Commission decision if the Reviewable Decision affirms the Conservation Commission decision;
- ટ applicant and the conservation commission; and a statement that a copy of the request has been sent by certified mail or hand delivery to the
- Ü if asserting a matter that is Major and Complex, as defined at 310 CMR 10.04(1), a statement requesting that the Presiding Officer make a designation of Major and Complex, with specific reasons supporting the request.

Filing Fee and Address

A copy of the Appeal Notice along with a MassDEP Fee Transmittal Form and a valid check or money order payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) must be mailed to:

Department of Environmental Protection Commonwealth of Massachusetts Commonwealth Master Lockbox Boston, Massachusetts 02211 Р.О. Box 4062

waiver. district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department the hearing request as provided above affidavit setting forth the facts believed to support the claim of undue financial hardship together with that paying the fee will create an undue financial hardship. A person seeking a waiver must file an may waive the adjudicatory hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a The filing fee is not required if the appellant is a city or town (or municipal agency), county,

MassDEP File # 091-0275		ids or the Land Court of property. In the case Index under the name s Order shall also be the Order of epartment.	al Office				Page										•	
Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	G. Recording Information	Ints superseding Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Department.	To: Massachusetts Department of Environmental Protection Northeast Regional Office Issuing Authority 205B Lowell Street, Wilmington, MA 01887 MassDEP Regional Office Address	Please be advised that the Order of Conditions for the Project at:	47 Spy Pond Lane, Lot B 091-0275 Project Location (Street and Town) MassDEP File Number	Has been recorded at the Registry of Deeds of:	Middlesex County Book	For: Property Owner	and has been noted in the chain of title of the affected property in:	Book Page	In accordance with the Order of Conditions issued on:	Date If recorded land, the instrument number identifying this transaction is:	Instrument Number	If registered land, the document number identifying this transaction is:	Document Number Signature of Applicant			
				_				2			203	3 of 223						

1

÷

.

Superseding Order of Conditions • Page 12 of 15



Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

epartment of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

Matthew A. Beaton Secretary

Martin Suuberg Commissioner Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor

December 29, 2016

RE: WETLANDS/ARLINGTON DEP File #091-0276 47 Sny Pond Lane (Lot A)

47 Spy Pond Lane (Lot A) Superseding Order of Conditions/Approval

Dear Mr. Seaver:

Lexington, MA 02420

Seaver Construction c/o Ms. Mary Trudeau

141 Lowell Street

reasons MassDEP has deemed necessary to protect the statutory interests identified in the issuing the enclosed Superseding Order of Conditions ("SOC") allowing the project based upon: Massachusetts General Laws, Chapter 131, Section 40, the Northeast Regional Office of the 1) information and plans submitted; 2) information gathered during the site inspection; and 3) Massachusetts Department of Environmental Protection, Wetlands Program ("MassDEP"), is Wetlands Protection Act and Regulations. Following an in-depth review of the file referenced above, and in accordance with

which involves the removal of the existing single-family home, driveway and patio and property into two lots, Lot A and Lot B. This SOC pertains to the work proposed on Lot A described in the Notice of Intent ("NOI"), the proposed project entails the subdivision of the Spy Pond. An existing single family home, driveway and patio currently exist on the site. As construction of a new single-family home, deck, driveway, infiltration basin, grading, retaining walls and plantings along the edge of Spy Pond. The project site is located at 47 Spy Pond Lane in Arlington, Massachusetts and abuts

of protection needed within the 100-foot setback to protect the interests identified in M.G.L. c. issued an Order of Conditions ("OOC") denying the project based on their opinion that the proposed is clearly within the standards set for work within one hundred feet of jurisdictional Bordering Vegetated Wetlands 10.55, Bank 10.54, Land Under Water 10.56, especially the level Spy Pond, does "not address the underlying failure to comply with the performance standards for planting plan, located within an area of existing lawn in the buffer zone and along the edge of 131, 40." You filed an appeal on November 7, 2015 based on your opinion that the "work On October 26, 2016, the Arlington Conservation Commission (the "Commission")

This information is available in alternate format. Call the MassDEP Diversity Office at 617-556-1139. TTY# MassRelay Service 1-800-439-2370 MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

wetlands, and no alteration of jurisdictional resource areas are proposed in the Notice of Intent application." On December 14, 2016, MassDEP conducted a site inspection. In attendance were your representative, the property owner and members of the Commission. During the site visit, the proposed project was discussed and the group walked the project site to observe existing site conditions and the location of the proposed development.

The site is also designated as Priority Habitat for rare and endangered species. A letter, dated July 8, 2016, from the Division of Fisheries and Wildlife (the "Division") states that it is the Division's MassDEP's review of the file and site inspection confirms that the project site contains "BVW"), Inland Bank, Land Under Water ("LUW") and Bordering Land Subject to Flooding These areas are significant to the statutory interests listed on the attached form. opinion that the project will not adversely affect the actual habitat of the state-protected rare wildlife species and will not result in a prohibited "take" of state listed rare wildlife species. the following Areas Subject to Protection under the Act: Bordering Vegetated Wetlands "'BLSF").

be located within the buffer zone to BVW, Inland Bank and LUW. These structures and grading are proposed approximately 50 feet from the closest wetland resource area. The remainder of the section of the proposed house, deck, infiltration basin, grading and retaining walls will house, driveway and grading will be located outside jurisdiction of the Wetland Protection Act. Plantings, consisting of native and indigenous species, are proposed to be placed within the existing lawn adjacent to Spy Pond. The planting plan is shown on the project plan titled, "Planting Plan in Arlington, Mass," dated September 26, 2016. 4

Based on review of the information provided in the file and observations made at the site inspection, it is MassDEP's opinion that the project will not impact wetland resource areas. It is MassDEP's opinion that the enclosed SOC allowing the project-serves to protect the interests of MassDEP reserves the right, should there be further proceedings in this case, to raise additional findings, please consult the language in the Order that specifies your rights and procedures for the Act, Massachusetts General Laws, Chapter 131, Section 40. Please be advised that it is issues and present further evidence as may be appropriate. Should any party dispute these MassDEP's responsibility to address only those interests identified in the Act. However, appeal.

Should you have any questions, please contact Jill Provencal at (978) 694-3250.

Sincerely,

Fachel-

Rachel Freed Deputy Regional Director Bureau of Water Resources – NERO

Wetlands Program - NERO Environmental Analyst Provenca

cc: Arlington Conservation Commission, Town Hall Annex, 730 Massachusetts Ave., Arlington, MA 02476

Mr. Harold Boucher, Trustee, Boucher Family Trust, 47 Spy Pond Lane, Arlington, MA 02476

207 of 223

7		ſ
	\sim	

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 MassDEP File # 091-0276

5	Ċī	4	ယ္	N .→ ▶
47 Spy Pond Lane – Lot A a. Street Address 12 c. Assessors Map/Plat Number Latitude and Longitude, if known:		c. Organization 215 Lexington Street d. Mailing Address Line 1 Woburn e. City/Town Property Owner (if different from applicant): Harold a. First Name	To: Applicant: Scott Seaver a. First Name, Last Name	A. General Information 1. From: Northeast Regional Office Massachusetts Department of Environmental Protection (MassDEP/the Department) 2. This issuance is for (check one): a. I Superseding Order of Conditions b. Amended Superseding Order of Condition
Arlington b. City/Town 4-2 d. Parcel/Lot Number e. Latitude f. Latitude	MA 02474 f. State g. Zip Code	MA 01801 f. State g. Zip Code Boucher, Trustee . Last Name	Seaver Construction b. Company	Office ent of Environmental Protection (MassDEP/the Department) a. X Superseding Order of Conditions b. Amended Superseding Order of Conditions

208 of 223

Superseding Order of Conditions • Page 1 of 15

			Massachusetts Department of Environm Bureau of Resource Protection – Wetlands Superseding Order of Conditions Massachusetts Wetlands Protection Act M.	Department ce Protectioi Order of C (etlands Prot	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	on MassDEP File # 0 091-0276	
	A	A. Genera	General Information (cont'd)	(cont'd)			
	Ö.		scorded at the Regi	stry of Deed	Property recorded at the Registry of Deeds (attach additional information if more than one parcel):	on if more than one parcel):	
·		Middlesex a. County 21215			b. Certificate	b. Certificate (if registered land)	
	7.	,	June 1, 2016		438 d. Page b. Doctober 6, 2016	December 14, 2016	
	ω̈́	Final Appro	oved Plans and Oth	er Documeni	Final Approved Plans and Other Documents (attach additional plans or document references):	c. Date of SOC Site Visit document references):	
		"Proposed a. Plan Title	"Proposed Plan in Arlington, MA" a Plan Title	1A"		.(000)	
		<u>Keenan Survey</u> b. Prepared By September 6, 2	<u>urvey</u> ^{3y} r 6, 2016		James Richard Keenan, P.L. c. Signed and Stamped By 1* = 10'	enan, P.L.S. No. 30751 dBy	
		d. Final Revision Date See Condition #20	ion Date tion #20		e. Scale		
		f. Additional P	f. Additional Plan or Document Title			g. Date	
	ш.	. Findings	S				1
	, '	Findings pu referenced finds that th Protection <i>∔</i>	Findings pursuant to the Massachur referenced Notice of Intent and bas finds that the areas in which work is Protection Act. Check all that apply:	achusetts Wr I based on tr ork is propos ipply:	etlands Protection Act - Follc le information provided in thi ed is significant to the follow	Findings pursuant to the Massachusetts Wetlands Protection Act - Following the review of the above- referenced Notice of Intent and based on the information provided in this application, the Department finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act. Check all that apply:	\$ t
209		a. 🛛 Pub	Public Water Supply	b. 🗌 La	Land Containing Shellifish c.	Prevention of Pollution	
) of 223		d. Priv	Private Water Supply	e. X Fis	Fisheries f.	Protection of Wildlife Habitat	
6		g. 🕅 Gro	Groundwater Supply	h. 🛛 Sto	Storm Damage Prevention i.	Flood Control	
	¢.	This Departr	ment hereby finds the	e project, as p	This Department hereby finds the project, as proposed, is (check one):		
		Approved subject to:	subject to:			•	
	່ຫ	the follo forth in t accorda other sp or differ these cc	the following conditions which forth in the wetlands regulatio accordance with the Notice of other special conditions attacl or differ from the plans, specif these conditions shall control.	ich are nece tions. The D of Intent refe ached to this scifications, o ol.	the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. The Department orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and ar other special conditions attached to this Order. To the extent that the following conditions modif or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.	the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. The Department orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.	>.
				•			

•

Superseding Order of Conditions • Page 2 of 15

ons • Page 3 of 15	Superseding Order of Conditions • Page 3 of 15	Supersedi		soc.doc – 4/22/2015 Formatted for Registry of Deeds
W.	stal Dunes belc	thes and/or Coa	der Coastal Beau	13. ☐ Barrier Beaches - Indicate size under Coastal Beaches and/or Coastal Dunes below
		d. c/y dredged	c. c/y dredged	
	I	b. square feet	a. square feet	12. Land Under the Ocean
Permitted Replacement	Proposed Replacement	Permitted Alteration	Proposed Alteration	
	, below	Inder the Ocean	ize under Land L	11. \square Designated Port Areas - Indicate size under Land Under the Ocean, below
a. linear feet	rbance and	it of project distu	nce between lim	10. ☐ Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
	/als Only)	ow. (For Approv	Check all that apply below. (For Approvals Only)	Coastal Resource Area Impacts: Check
j. square feet	i. square feet	h. square feet	g. square feet	Sq feet between 100-200 reet
f. square feet	e. square feet	d. square feet	c. square feet	Sq feet within 100 feet
		b. total sq. feet	a. total sq. feet	9. 🔲 Riverfront area
f. cubic feet	e. cubic feet	d. cubic feet	c. cubic feet	Cubic Feet Flood Storage
		b. square feet	a. square feet	8. Isolated Land Subject to Flooding
h. cubic feet	g. cubic feet	f. cubic feet	e. cubic feet	Cubic Feet Flood Storage
d. square feet	c. square feet	b. square feet	a. square feet	7. Bordering Land Subject to Flooding
		f. c/y dredged	e. c/y dredged	
d. square feet	c. square feet	b. square feet	a. square feet	 Land Under Waterbodies and Waterways
d. square feet	c. square feet	b. square feet	a. square feet	5. Bordering Vegetated Wetland
d. linear feet	c. linear feet	b. linear feet	a. linear feet	
Permitted Replacement	Proposed Replacement	Permitted Alteration	Proposed Alteration	Resource Area
a. linear feet	s Only) Irbance and	v. (For Approval it of project distu	that apply belov nce between lim	 Inland Resource Area Impacts: Check all that apply below. (For Approvals Only) 3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and wetland boundary (if available)
				B. Findings (cont'd)
276	091-0276	3.L. c. 131, §40	Order of Conditions Vetlands Protection Act M.C	Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
MassDEP File #		orogram	tion – Wetlands I	

210 of 223

2

ſ	1
·	

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File #

091-0276

B. Findings (cont'd)

14. 🔲 Coastal Beaches				
15. 🔲 Coastal Dunes	a. square feet	b. square feet	c, c/y	d. c/y nourish.
16. 🔲 Coastal Banks	a. square feet	b. square feet	c. c/y	d. c/y nourish.
17. 🔲 Rocky Intertidal Shores	a. linear feet	b. linear feet		
18. 🔲 Salt Marshes	a. square feet	b. square feet		
19. The rand Under Salt Ponds	a. square feet	b. square feet	c. square	d. square feet
	a. square feet	b. square feet		
20. T Land Containing Shellfish	c. c/y dredged	d. c/y dredged		
	a. square feet	b. square feet	c. square	d. square feet
31 🗌 Eich Buno Indiroto oizo under Occatel Banka interet Banka in 2000	Landai - Jac Clat		(

21. Teish Runs - Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above

		THE RECEIPTION OF A LOCAL DATA AND AND AND AND AND AND A LOCAL DATA AND AND AND AND AND AND AND AND AND AN			f. square feet		j. square feet
•					e. square	• ·	i. square
b. c/y dredged	b. square feet		b. total sq. feet		d. square feet		h. square feet
a. c/y dredged	a. square feet		a. total sq. feet		c. square feet		g. square feet
22. Land Subject to Coastal Storm	Flowage	23. 🔲 Riverfront area		Sq feet within 100 feet		Sq feet between 100-200 feet	

211 of 223

C. General Conditions Under Massachusetts Wetlands Protection Act

Brief Project Description of Permitted Activities:

The construction of a single-family home, driveway, grading, retaining wall, infiltration basin, deck and plantings.

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 **Superseding Order of Conditions** Bureau of Resource Protection – Wetlands Program Massachusetts Department of Environmental Protection

> MassDEP File #

091-0276

ဂ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

(only applicable to approved projects)

- <u>-</u> Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- N injury to private property or invasion of private rights. The Order does not grant any property rights or any exclusive privileges; it does not authorize any
- ω This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
- 4 unless either of the following apply: The work authorized hereunder shall be completed within three years from the date of this Order
- the work is a maintenance dredging project as provided for in the Act; or
- ā ā the time for completion has been extended to a specified date more than three years, but less set forth as a special condition in this Order. years, the extension date and the special circumstances warranting the extended time period are than five years, from the date of issuance. If this Order is intended to be valid for more than three
- S This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
- <u>ი</u> Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Superseding Order will expire on _____ unless extended in writing by the Department. If this Order constitutes an Amended Superseding Order of Conditions, this Amended Superseding
- 7 Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing
- ω an appeal has been taken, until all proceedings before the Department have been completed This Order is not final until all administrative appeal periods from this Order have elapsed, or if such
- ဖ information shall be submitted to the Department on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work. be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the No work shall be undertaken until the Order has become final and then has been recorded in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to
- 10 size bearing the words, "Massachusetts Department of Environmental Protection" [or, "MA DEP"] A sign shall be displayed at the site not less then two square feet or more than three square feet in

"File Number 091-0276

ł

Superseding Order of Conditions • Page 6 of 15

- A

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File #

091-0276

ຸດ General Conditions Under Massachusetts Wetlands Protection Act (cont.)

g No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until ω

operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the the Certification. For any construction period BMPs intended to be converted to post construction prepared for post construction operation, including removal of all construction period sediment MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned Registered Professional Engineer provides a Certification that: all construction period BMPs have been removed or will be removed by a date certain specified Ξ Q

trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;

iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;

planting plans) approved by the issuing authority, and have been inspected to ensure that they are iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all

not damaged and that they are in proper working condition; v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion

- <u></u> Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMPs Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i*.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii*.) the future responsible parties shall be notified in writing of their ongoing legal The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition Stormwater Pollution Prevention Plan. responsibility to operate and maintain the stormwater management BMPs and implement the 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance
- ٩ Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- <u>@</u> Unless and until another party accepts responsibility, the landowner, or owner of any drainage Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. BMP. purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for and acceptable to the issuing authority, evidencing that another entity has accepted responsibility for landowner of the property must submit to the issuing authority a legally binding agreement of record. easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the plan and easement deed that grants the responsible party access to perform the required operation 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or and maintenance must be submitted along with the legally binding agreement. Any failure of the proposed responsible party to implement the requirements of Conditions ≻
- Ŀ The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.

			Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	MassDEP File # 091-0276
	S	. General	General Conditions Under Massachusetts Wetlands Protection Act (cont.)	in Act (cont.)
	(b	The resi 3. 3.	 Responsible party shall: Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location); Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and since the Conservation to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority. 	cutive calendar years ater management cate the type of n Commission nter and inspect the with the requirements
	ц		All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.	sposed of in
	(i	Illicit disch	Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.	3 10.04 are prohibited.
	(ĺ	The stormv without the	The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.	I not be changed
	Ŷ	Areas desi (as defined Site Desigr	Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.	ct Site Design Credit Impact Development e issuing authority.
	(Access for constructed above grad	Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.	ield. Any fencing at least six inches
		Special Co numbered	Special Conditions (See attached sheet(s) or below for additional Special Conditions numbered <u>20</u> through 38.	Conditions
215 of		See attached	pe	
1003				
·				
	JUS	c doc - 4/22/2015	· · ·	
	F OL	Formatted for Regi	ry of Deeds	supersecing Order of Conditions • Page 8 of 15

28. The applicant shall employ a wetland professional to oversee all plantings proposed within the buffer zone and report in writing to MassDEP and the Arlington Conservation Commission once a month, during	27. Members and agents of MassDEP and the Arlington Conservation Commission shall have the right to enter and inspect the premises to evaluate compliance with the conditions contained in this Superseding Order, and may require the submittal of any data deemed necessary by MassDEP for that evaluation.	26. Any proposed or executed change in the plans approved under this Superseding Order shall require the applicant to file a new Notice of Intent with the conservation commission or to inquire of MassDEP in writing whether the change is substantial enough to require a new filing. A copy shall be sent at the same time to the Arlington Conservation Commission. Any errors in the plans or information submitted by the applicant shall be considered changes and the above procedures shall be followed.	25. This Superseding Order shall apply to any successor or assigns in interest or control and any other party engaging in activity on the property identified in the Notice of Intent.	24. No work shall commence on-site until all appeal periods have elapsed and this Superseding Order of Conditions has been recorded with the Registry of Deeds and MassDEP has been formally notified via the form provided at the end of this Order.	23. A copy of this Superseding Order as well as the plans and reports referenced in Condition #20 shall be available on site while activities regulated by this Order are being performed. In addition to the owners, all contractors and subcontractors shall be held responsible for compliance with this Superseding Order.	22. A copy of this Superseding Order shall be included in all construction contracts and shall supersede any conflicting requirements.	21. This Superseding Order supersedes all previous Orders issued for this project, DEP File#091-0276. All work shall conform to the Notice of Intent and plans and documentation referenced above unless otherwise specified in this Superseding Order. In case of a conflict, the Conditions of this Superseding Order shall prevail.	 a) "Proposed Land in Arlington, Mass," prepared by Keenan Survey, stamped by James Richard Keenan, P.L.S., final revision date September 6, 2016 b) "Post Construction Stormwater Operation and Maintenance Plan, 47 Spy Pond Lane (Lot A), Arlington, MA." c) "Planting Plan in Arlington, Mass," prepared by Keenan Survey, final revision date September 26, 50 2016. 	20. All work shall conform with the following plans, reports and special conditions:	Special Conditions	SUPERSEDING ORDER OF CONDITIONS DEP File Number 091-0276
--	---	--	--	---	--	--	--	--	--	--------------------	---

	construction, to confirm that all activities are in compliance with the planting plan (referenced in Condition
	#20). The report shall, at a minimum, include a description of the relative health of the planted species and shall make recommendations for replacement of plants if needed.
	29. Any changes proposed to the plants listed in the planting plan (referenced in Condition #20) shall be reviewed and approved by MassDEP prior to placement.
	30. Prior to the start of work, the applicant shall submit a construction sequence to MassDEP and the Arlington Conservation Commission, for approval by MassDEP. The construction sequence shall include a plan showing the location of any material stockpile areas and any temporary, construction period, stormwater BMPs.
	31. Prior to the start of work, erosion controls consisting of silt fence and staked haybales shall be installed between the limits of work and the wetland resource areas. These barriers shall serve as the limit of disturbance and shall be installed as close to the work area as possible. Erosion controls shall remain in place until MassDEP approves their removal. If work occurs during the winter months, the applicant shall install orange snow fencing along the erosion control line in order to provide a more visible barrier.
	32. No soil or other materials shall be stockpiled within 100 feet of wetland resource areas.
	33. Upon completion of construction, all exposed soils shall be seeded with appropriate vegetation or otherwise stabilized by a method acceptable to the MassDEP and Arlington Conservation Commission.
	34. At no time during or after construction shall fill or other materials be placed, slump into or fall beyond the limit of grading as shown on the plan. The Environmental Monitor shall be responsible for inspecting and maintaining all slopes and shall immediately notify the MassDEP and the Arlington Conservation Commission if slumping, erosion or encroachment occurs.
	35. Excess soil, rock and debris excavated or generated during the course of this project shall be removed from the site and disposed of in a legal manner. Records of the destination of all materials, including excess fill and loam, to be removed from the site shall be kept on file and shall be provided to the MassDEP and the Arlington X onservation Commission upon request.
	A. Storing, servicing or cleaning of equipment, including but not limited to fueling, changing, adding or Applying lubricants or hydraulic fluids, or washing/rinsing of trucks or equipment, shall be performed outside the 100-foot buffer zone.
	37. During work on this project, there shall be no discharge or spillage of fuel, oil or other pollutants, including sediments, onto any part of the site. The applicant shall take all reasonable precautions to prevent the release of pollutants by ignorance, accident or vandalism.
	38. Upon completion of the project, the applicant shall request a Certificate of Compliance from the MassDEP and shall submit the following information with the request:
:	a) A written statement by a professional engineer or land surveyor registered in the Commonwealth of Massachusetts certifying compliance with the approved plans referenced above and this Superseding Order of Conditions and setting forth deviations, if any exist;

ł

Superseding Order of Conditions • Page 14 of 15

218 of 223

An as-built site plan prepared by a registered land surveyor or registered professional engineer showing location and grades of the project, including but not limited to: the single-family home, deck, driveway, stormwater BMP, and site grading on the project site.

A final plan and report showing the location, number and health of the plants shown on the planting plan referenced in Condition #20.

c

ગ

219 of 223

	Date	This Order is issued to the applicant as follows: ☐ by Hand delivery on	Northeast MassDEP Regional Office New Land Truck Deputy Regional Director Signature Rachel Freed Deputy Regional Director Printed Name	E. Issuance This Order is valid for three years from the date of issuance, unless otherwise specified as a special condition pursuant to General Conditions # 4 or # 6. Issued by: Massachusetts Department of Environmental Protection:	D. Findings Under Municipal Wetlands Bylaw or Ordinance To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no jurisdiction to supersede the local by-law order.	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
	Date – Certified Mail #	⊠ by certified mail on: /め・み¶・Iし	12/2016 Date	uance, unless otherwise specified s # 4 or # 6. vvironmental Protection:	nds Bylaw or Ordinance pal bylaw or ordinance, and not on the titions, the Department has no jurisdiction to	ironmental Protection tlands Program ions Act M.G.L. c. 131, §40

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 9 of 15

Protection MassDEP File # 131, §40 091-0276 13 person aggrieved by the	able Decision, the conservation he land is located if at least one e hereby notified of their right to provided the request is made by appropriate filing fee and a MassDEP if issuance of this Superseding Order or		ce) shall at the same time be sent by he applicant, the person that ng office of the MassDEP at:		Order or Determination, the Appeal r resident group, whose name and relevant).		Jjudicatory Proceedings, 310 CMR nformation: andowner if different from applicant,	and telephone numbers of the party sel, the name, fax and telephone tative; if a ten residents group, the	a demonstration of participation by is Reviewable Decision; monstration of participation in the d sufficient written facts to	mailing addresses of all other		
Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Massachusetts Wetlands Protection Act M.G.L. and the fights and Time Limits the landowner, the conservation commission, any person and defin	previously participated in the proceedings leading to this Reviewable Decision, the conservation commission, or any ten (10) residents of the city or town where the land is located if at least one resident was previously a participant in the permit proceeding, are hereby notified of their right to appeal this Reviewable Decision pursuant to M.G.L. c.30A, § 10, provided the request is made by certified mail or hand delivery to the Department, along with the appropriate filing fee and a MassDEP Fee Transmittal Form within ten (10) business days of the date of issuance of this Superseding Order or Determination, and addressed to:	Office of Appeals and Dispute Resolution Massachusetts Department of Environmental Protection One Winter Street, 2 nd Floor Boston, MA 02108	r copy of the request (nereinarter also referred to as Appeal Notice) shall at the same time be certified mail or hand delivery to the Conservation Commission, the applicant, the person that requested the Superseding Order or Determination, and the issuing office of the MassDEP at: MassDEP _ Northeast Barion	Wetlands Program 205B Lowell Street Wilmington, MA 01887	In the event that a ten-resident group requested the Superseding Order or Determination, the Appeal Notice shall be served on the designated representative of the ten resident group, whose name and contact information is included in this Reviewable Decision (when relevant).	Appeal Notice	An Appeal Notice shall comply with the Department's Rules for Adjudicatory Proceedings, 310 CMR 1.01(6) and 310 CMR 10.05(7)(j), and shall contain the following information: a) the MassDEP Wetlands File Number, name of the applicant, landowner if different from applicant, and address of the project;	the complete name, mailing address, email address, and fax and telephone numbers of the party filing the Appeal Notice; if represented by consultant or counsel, the name, fax and telephone numbers, email address, and mailing address of the representative; if a ten residents group, the same information for the group's designated representative;	at least one resident in the previous proceedings that led to this Reviewable Decision; at least one resident in the previous proceedings that led to this Reviewable Decision; if the Appeal Notice is filed by an aggrieved person, then a demonstration of participation in the previous proceeding that lead to this Reviewable Decision and sufficient written facts to	demonstrate status as a person aggrieved; the names, telephone and fax numbers, email addresses, and mailing addresses of all other	interested parties, if known;	
F. Appeal Rights Superschi Massachi The applicant, the lan Superseding Order, D	previously pr commission, resident was appeal this F certified mail Fee Transmi or Determina	A conv of the	certified mail requested the		In the event the order the Notice shall be contact inform	Contents of	An Appeal No 1.01(6) and 3 a) the Massi and addre	 b) the complete / filing the / numbers, same info if the / Accept 		demonstra e) the names	interested	
						221	of 223					

1

soc.doc – 4/22/2015 Formatted for Registry of Deeds

Superseding Order of Conditions • Page 10 of 15



Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

> MassDEP File #

091-0276

Π. Appeal Rights and Time Limits (cont.)

- Ð a clear and concise statement of the alleged errors contained in the Department's decision and how each alleged error in inconsistent with 310 CMR 10.00 and does not contribute to the protection of the interests identified in the Wetlands Protection Act, M.G.L. c.131, § 40, including reference to the statutory or regulatory provisions that the party filing the Appeal Notice alleges has been violated by the Department's Decision, and the relief sought, including any specific desired changes to the Department's decision;
- g a copy of the Department's Reviewable Decision that is being appealed and a copy of the underlying Conservation Commission decision if the Reviewable Decision affirms the Conservation Commission decision;

222 of 223

- ट a statement that a copy of the request has been sent by certified mail or hand delivery to the applicant and the conservation commission; and
- ij if asserting a matter that is Major and Complex, as defined at 310 CMR 10.04(1), a statement requesting that the Presiding Officer make a designation of Major and Complex, with specific reasons supporting the request.

Filing Fee and Address

must be mailed to: order payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) A copy of the Appeal Notice along with a MassDEP Fee Transmittal Form and a valid check or money

Department of Environmental Protection Commonwealth of Massachusetts Commonwealth Master Lockbox Boston, Massachusetts 02211 Р.О. Box 4062

waiver. The filing fee is not required if the appellant is a city or town (or municipal agency), county, district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department the hearing request as provided above affidavit setting forth the facts believed to support the claim of undue financial hardship together with that paying the fee will create an undue financial hardship. A person seeking a waiver must file an may waive the adjudicatory hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a

Superseding Order of Conditions • Page 11 of 15

			\$
	Massachusetts Bureau of Reso Superseding Massachusetts	Massachusetts Department of Environmental Protection Bureau of Resource Protection – Wetlands Program Superseding Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40	MassDEP File # 091-0276
	G. Recording Information	tion	
· · · ·	This Superseding Order of C for the district in which the la of recorded land, the Final O of the owner of the land subj noted on the Land Court Cer Conditions. The recording in	This Superseding Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Department.	eds or the Land Court ted property. In the case Index under the name is Order shall also be the Order of Department.
	To: <u>Massachusetts Department of Environn</u> Issuing Authority <u>205B Lowell Street, Wilmington, MA</u> 01887 MassDEP Regional Office Address	Massachusetts Department of Environmental Protection Northeast Regional Office Issuing Authority B Lowell Street, Wilmington, MA 01887 DEP Regional Office Address	nal Office
	Please be advised that the Order of Conditions for the Project at:	r of Conditions for the Project at:	
	47 Spy Pond Lane, Lot A Project Location (Street and Town)	091-0276 MassDEP File Number	
	Has been recorded at the Registry of Deeds of.	gistry of Deeds of:	,
	Middlesex		
	For: Pronerty Owner	DOOK	Lage
	and has been noted in the ch	and has been noted in the chain of title of the affected property in:	
	Book	Page	
	In accordance with the Order of Conditions issued on:	of Conditions issued on:	
	Date		
	If recorded land, the instrume	If recorded land, the instrument number identifying this transaction is:	,
	Instrument Number		
	If registered land, the docume	If registered land, the document number identifying this transaction is:	
	Document Number	Signature of Applicant	
	•		
	soc.doc – 4/22/2015 Formatted for Revietv. of Deeds	Superseding Order of	Superseding Order of Conditions • Page 12 of 15
	ו מווומווסה וכו ויכאומוול כו הכברה	-	