Project #: <u>EBOS-0027</u>

December 6, 2019

Boston Conservation Commission Boston City Hall 1 City Hall Square, Room 709 Boston, MA 02201



Subject:93-95 Prescott Street, East Boston, MARevised Notice of Intent Application

Dear Boston Conservation Commission,

Thank you for your consideration and feedback on the Notice of Intent and Site Plan at 93-95 Prescott Street.

Based on your feedback, we have revised the plan and Notice of Intent application and Site Plan in the following ways:

• The individuals listed as Applicant and Owner on the WPA Form 3 page 1 are not the same individuals that signed page 9. We need the listed Applicant and Owner to sign the WPA Form 3. We will need two revised hard copies.

The applicant and owner's name has been revised in the Notice of Intent Application.

• On WPA Form 3 page 2, section A (7a) is marked incorrectly for the type of work being done. We will need two revised hard copies.

We have checked the "Other" box instead of industrial/commercial.

• In your narrative, you indicate that you are removing a private catch basin. Are you allowing runoff to be directed to the sidewalk/street?

Yes, runoff will now be directed towards Prescott Street and to the passageway off Prescott Street. A trench drain has been added to both sides of the project.

• Only a stormwater checklist was provided. We will also need a stormwater report detailing how the project is/is not meeting all of the standards and the hydrologic calculations. We will need two hard copies.

A Stormwater Report and copy of the Stormwater Report been included in the attached revised application.

• We will need two hard copies of a signed illicit discharge statement.

Two hard copies of the signed illicit discharge statement have been included in the attached revised application.

• Not all of the elevations listed on the climate resiliency checklist are shown on the plan set. Additionally, we will need the resource area delineated on all sheets. We will need two hard copies of a new stamped plan set.

Elevations listed on the climate resiliency checklist are now shown on the plan set. Additionally, the limit of Land Subject to Coastal Storm Flowage has been added to the plan set. The entire parcel is within Land Subject to Coastal Storm Flowage.

• We will need a digital copy of the complete revised application, preferably as an email attachment or digital download

A digital copy has been provided to the Commission.

Should you have any questions in the meantime, please feel free to reach out. We look forward to presenting to you at your next Commission meeting.

Sincerely, WILLIAMS & SPARAGES LLC

le 1 Thorsen Akerley, RS

cc: Massachusetts Department of Environmental Protection (NERO) 687 Saratoga Street Realty Trust LAR Property Management



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

A. General Information

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

1. Project Location (Note: electronic filers will click on button to locate project site):

| MassDEP | File Nu | mber | |
|-----------|---------|-----------|-----|
| Document | Transa | ction Num | ber |
| East Bo | ston | | |
| 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.

| 93-95 Prescott Street | | East Boston | 02128 |
|---|----------------------------|----------------------|----------------------|
| a. Street Address | | b. City/Town | c. Zip Code |
| | | 42.328173 | -71.075615 |
| Latitude and Longitude: | | d. Latitude | e. Longitude |
| | | 0106907000 (93 Presc | ott), 0106908000 (95 |
| f. Assessors Map/Plat Number | | Prescott) | |
| 2. Applicant: | | | |
| Rita & Louie | | Roberto | |
| a. First Name | | b. Last Name | |
| 687 Saratoga Street Realt | y Trust (Owner of 95 Pres | cott / Applicant) | |
| c. Organization | | | |
| 282 Bennington Street | | | |
| d. Street Address | | | 00400 |
| East Boston | MA | -4- | 02128 |
| e. City/Town | f. Sta | | g. Zip Code |
| <u>617-567-1992</u> | | este@spinellis.com | |
| | | nail Address | |
| Property owner (required if | different from applicant): | | than one owner |
| Rita & Louie | | Roberto | |
| a. First Name | | b. Last Name | |
| LAR Property Managemen | t (Owner of 93 Prescott) | | |
| c. Organization | | | |
| 282 Bennington Street | | | |
| d. Street Address | | | |
| East Boston | MA | | 02128 |
| e. City/Town | f. Sta | | g. Zip Code |
| (617) 567-4499 | | nony@spinellis.com | |
| h. Phone Number i. F | ax Number j. Em | ail address | |
| . Representative (if any): | | | |
| Thorsen | | Akerley | |
| a. First Name | | b. Last Name | |
| Williams & Sparages LLC | | | |
| c. Company | | | |
| 189 North Main Street | | | |
| d. Street Address | | | |
| Middleton | MA | | 01949 |
| e. City/Town | f. Sta | te | g. Zip Code |
| (978) 539-8088 (97 | (8) 539-8200 take | rley@wsengineers.com | 1 |
| | | ail address | |
| 5. Total WPA Fee Paid (from | NOI Wetland Fee Transm | ittal Form): | |
| \$1,050.00 | \$512.50 | \$0 | |
| a. Total Fee Paid | b. State Fee Paid | | own Fee Paid |



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 |
|---------------------|
| |

Prov

6. Coastal engineering Structure

A. General Information (continued)

6. General Project Description:

Demolish existing 2-family home and erect a three level townhouse-style dwelling and conduct grading within land subject to coastal storm flowage.

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)?

| 1. 🗌 | Yes | \boxtimes | No | If yes, describe |
|------|-----|-------------|-----|------------------|
| •• 🗀 | 100 | | 110 | 10.24 and 10.53 |

^f yes, describe which limited project applies to this project. (See 310 CMR 0.24 and 10.53 for a complete list and description of limited project types)

8. Transportation

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:

| Suffolk | |
|------------------------------|---------------------------------------|
| a. County | b. Certificate # (if registered land) |
| See attached deed references | |
| c. Book | d. Page Number |

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

- 1. Duffer 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 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** East Boston City/Town

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

| | E | lesour | ce Area | Size of Proposed Alteration | Proposed Replacement (if any) |
|--|------|---------|---------------------------------------|--|--|
| For all projects | а | | Bank | 1. linear feet | 2. linear feet |
| affecting other Resource Areas, | b | | Bordering Vegetated Wetland | 1. square feet | 2. square feet |
| please attach a narrative explaining how the resource | с | | Land Under Waterbodies and | 1. square feet | 2. square feet |
| area was delineated. | | | Waterways | 3. cubic yards dredged | |
| denneated. | R | esour | ce Area | Size of Proposed Alteration | Proposed Replacement (if any) |
| | d | | Bordering Land Subject to Flooding | 1. square feet | 2. square feet |
| | | | | 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 |
| | 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. T | otal area of Riverfront Are | ea on the site of the proposed projec | t: square feet |
| | | 4. P | roposed alteration of the | Riverfront Area: | |
| | | a. to | tal square feet | b. square feet within 100 ft. | c. square feet between 100 ft. and 200 ft. |
| | | 5. H | las an alternatives analys | is been done and is it attached to th | is NOI? |
| | | 6. V | Vas the lot where the activ | vity is proposed created prior to Aug | ust 1, 1996? 🗌 Yes 🗌 No |
| | 3. 🗵 | Coa | stal Resource Areas: (See | e 310 CMR 10.25-10.35) | |
| | N | ote: fo | or 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

| Pro | vided by MassDEP: |
|-----|-----------------------------|
| | MassDEP File Number |
| | Document Transaction Number |
| | East Boston |
| | 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 | Reso | ource Area | Size of Propos | ed Alteration | Proposed Replacement (if any) |
|--|--------------|--|-------------------------|-------------------------------------|---|
| transaction number | a. 📃 | Designated Port Areas | Indicate size | under Land Unde | er the Ocean, below |
| (provided on your receipt page) with all | b. 🗌 | Land Under the Ocean | 1. square feet | | |
| supplementary information you | | | 2. cubic yards dree | lged | |
| submit to the Department. | c. 🗌 | Barrier Beach | Indicate size ur | nder Coastal Bea | aches 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 Propos | ed Alteration | Proposed Replacement (if any) |
| | 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 |
| | î. 🗌 | Land Under Salt Ponds | 1. square feet | | |
| | | | 2. cubic yards dred | lged | |
| | j. 🗖 | Land Containing Shellfish | 1. square feet | | |
| | k. 🗌 | Fish Runs | | | iks, inland Bank, Land Under the er Waterbodies and Waterways, |
| | | | 1. cubic yards dred | aed | |
| | I. 🔀 | Land Subject to Coastal Storm Flowage | 1,147 1. square feet | | |
| 4 | If the squar | estoration/Enhancement project is for the purpose o | f restoring or enha | ncing a wetland 2.b or B.3.h abo | resource area in addition to the ve, please enter the additional |
| | a. squa | are feet of BVW | | b. square feet of § | Salt Marsh |
| 5 | . 🗌 P | roject Involves Stream Cro | ssings | | |
| | a. num | ber of new stream crossings | | b. number of repla | acement stream crossings |
| wpaform3.doc • rev. | 2/8/2018 | , | (•); | | Page 4 of 9 |





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

| ided by MassDEP: | |
|--------------------------|-----|
| MassDEP File Number | |
| Document Transaction Num | ber |
| East Boston City/Town | |
| | |

Prov

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

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 | \boxtimes | No | If yes, include proof of mailing or hand delivery of NOI to: |
|----------------|-------------|----|---|
| | | | Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife |
| 8/2017 | | | 1 Rabbit Hill Road Westborough, MA 01581 |
| b. Date of map | | | westborough, MA 01501 |

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To gualify 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. T Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

- Assessor's Map or right-of-way plan of site 2.
- 2. D 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) 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. 2/8/2018



Massachusetts Department of Environmental Protection Provided by MassDEP:

Bureau of Resource Protection - Wetlands

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MassDEP File Number

WPA Form 3 – Notice of Intent

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| WIGSSDEI | The Wornber |
|-----------|--------------------|
| Document | Transaction Number |
| East Bo | ston |
| 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
- 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. 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 North Shore - Hull to New Hampshire border: the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries StationDivision of Marine Fisheries -
North Shore OfficeAttn: Environmental ReviewerAttn: Environmental Reviewer836 South Rodney French Blvd.
New Bedford, MA 0274430 Emerson Avenue
Gloucester, MA 01930Email: DMF.EnvReview-South@state.ma.usEmail: 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.

| X | Βι | ureau 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 | | | |
| | | | City/Town | | |
| | C | . Other Applicable Standards and Requirements | (cont'd) | | |
| | 4. | Is any portion of the proposed project within an Area of Critical Environ | mental Concern (ACEC)? | | |
| Online Users: Include your document | | a. Yes X No If yes, provide name of ACEC (see instructions Website for ACEC locations). Note: electronic | | | |
| transaction number | | b. ACEC | | | |
| (provided on your receipt page) with all | Is any portion of the proposed project within an area designated as an Outstanding Reso (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR | | | | |
| supplementary | | a. 🗌 Yes 🖾 No | | | |
| information you 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 Manag | ement Standards? | | |
| | | a. 🛛 Yes. Attach a copy of the Stormwater Report as required by the | e 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 Managem | nent 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 or equal to 4 units in multi-family housing project) with no discl | | | |
| | D. | Additional Information | | | |
| | | This is a proposal for an Ecological Restoration Limited Project. Skip Se Appendix A: Ecological Restoration Notice of Intent – Minimum Require 10.12). | | | |
| | | Applicants must include the following with this Notice of Intent (NOI). Se | e instructions for details. | | |
| | | Online Lineral Attach the document transaction number (provided on w | our reasint page) for any of | | |

- **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.

4



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

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

| MassDEP | File Number |
|-----------|--------------------|
| Document | Transaction Number |
| East Bos | ston |
| City/Town | |

D. Additional Information (cont'd)

- Identify the method for BVW and other resource area boundary delineations (MassDEP BVW 3. 🖂 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.

| a. Plan Title | |
|---|--------------------------|
| Williams & Sparages LLC | Christ P. Sparages, P.E. |
| b. Prepared By c. Signed and Stamped by | |
| 12/2/19 | 1" = 20' |
| d. Final Revision Date | e. Scale |
| Stormwater Checklist | 12/2/19 |
| f. Additional 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. 🖂 Attach NOI Wetland Fee Transmittal Form
- 9. 🖂 Attach Stormwater Report, if needed.

E. Fees

1. Tee 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:

| 18704 | 8-21-19 | |
|------------------------------------|-----------------------------------|--|
| 2. Municipal Check Number | 3. Check date | |
| 18703 | 8-21-19 | |
| 4. State Check Number | 5. Check date | |
| Rita | Roberto | |
| 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

| orc | ovided by MassDEP: |
|-----|-----------------------------|
| | MassDEP File Number |
| | Document Transaction Number |
| | East Boston |
| | 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.

| - Louis, Robert | 8-12-19 |
|---|--------------------|
| 1. Signature of Applicant Robector | 2. Date |
| 3. Signature of Property Owner (if different) | 4. Date 12-2-19 |
| 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.

2.

3.

A. Applicant Information

| 1. Location of Project: | | |
|-----------------------------------|--------------------------------------|-------------|
| 93-95 Prescott Street | East Boston | |
| a. Street Address | b. City/Town | |
| 18703 | \$512.50 | |
| c. Check number | d. Fee amount | |
| 2. Applicant Mailing Address: | | |
| Rita & Louie | Roberto | |
| a. First Name | b. Last Name | |
| 687 Saratoga Street Realty Tru | st (Owner of 95 Prescott/ Applicant) | |
| c. Organization | | |
| 282 Bennington Street | | |
| d. Mailing Address | | |
| East Boston | MA | 02128 |
| e. City/Town | f. State | g. Zip Code |
| (617) 567-4499 | celeste@spinellis.com | |
| | Number j. Email Address | |
| 3. Property Owner (if different): | | |
| Rita & Louie | Roberto | |
| a. First Name | b. Last Name | |
| LAR Property Management (Ov | vner of 93 Prescott) | |
| c. Organization | | |
| 282 Bennington Street | | |
| d. Mailing Address | | |
| East Boston | MA | 02128 |
| e. City/Town | f. State | g. Zip Code |
| 617-567-1992 | anthony@spinellis.com | |

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

h. Phone Number

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

j. Email Address

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.

i. Fax Number

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 |
|----------------------------------|--------------------------------|--------------------------------------|---|
| (3.b.) towhouse-type development | | \$1050.00 | \$1050.00 |
| | | | |
| | | | |
| | Step 5/To | otal Project Fee: | \$1050.00 |
| | Step 6/ | Fee Payments: | |
| | Total | Project Fee: | \$1050.00 a. Total Fee from Step 5 |
| | State share | of filing Fee: | \$512.50 b. 1/2 Total Fee less \$1 2.50 |
| | City/Town share | e of filling Fee: | c. 1/2 Total Fee plus \$12.50 |

C. Submittal Requirements

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

Department of Environmental Protection Box 4062 Boston, MA 02211

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

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

#93-95 Prescott Street East Boston, Massachusetts

Project Narrative

(December 2, 2019) Revised December 5, 2019

Introduction

The Proposed Redevelopment Project ("Project") is located at 93-95 Prescott Street in the East Boston section of the City of Boston. The site of the Project is comprised of 2 parcels with a combined area of 2,100 square feet currently improved by a 2 story 2-family home. The property is located in the Three-Family Residential (3F-2000) sub district, which allows for the construction of multi-family dwellings. The entire subject property is located within a Flood Hazard Area, Zone AE, elevation 10 NGVD (elevation 16.5 Boston City Base), as shown on Flood Insurance Rate Map (FIRM) Community Panel Number 25025C0019J, map revised March 16, 2016. The flood waters are associated with coastal storm flow from the Atlantic Ocean, therefore, the subject property lies with the wetland resource area known as Land Subject to Coastal Storm Flowage (LSCSF).

The City of Boston Assessor's office describes the property as a residential property and is assessed for residential only. The lot is predominantly covered by building, deck area, and paved surfaces.

Proposal

The proposal is to re-develop the property into a 3 story multi-family dwelling with decks, 1,000gallon drywell, and utilities on the subject property. The new building on the Project site will consist of six units, three units containing two (2) bedrooms each and three unit containing one (1) bedroom for a total of 9 bedrooms within the new building. All of the work is proposed to take place within the Land Subject to Coastal Storm Flowage (LSCSF) resource area. The proposed first floor elevation will be constructed one foot above the base flood elevation at elevation 17.5 (Boston City Base).

The existing catch basin in the rear corner of the parcel is proposed to be removed as well. As a result, the rear portion of the project site is proposed to be regraded to allow for stormwater to flow towards Prescott Street instead of towards the catch basin. This work involves the filling of LSCSF, and has been noted on the NOI application.

Stormwater Management

The proposed redevelopment of the subject property results in a slight reduction in impervious surfaces. As an added benefit, an infiltration drywell has been designed to capture runoff from the roof. The 1,000 gallon drywell is to be located below the deck area and will be surrounded with crushed stone on all sides. This infiltration device has been designed to capture 1-inch of runoff from the roof.

Performance Standards

There is no performance standard for work within LSCSF. As the project and site are subject to flow from the Atlantic Ocean, the proposed work can have no measureable affect on potential flooding

on the property. In prior cases involving LSCSF from the Atlantic Ocean, Massachusetts Courts have ruled that any compensatory flood storage consumed by a project in LSCSF is insignificant in comparison to the size of the ocean's basin.

Construction/ Erosion & Sediment Control

There is very little earth moving activity proposed on the subject property and the subject property is relatively flat. The potential for erosion and sediment migrating from this construction site is very low. The applicant proposes the use of siltfence and/or straw waddle along the abutting properties as a precaution. This line of sediment control will also help demarcate the property line and limit of work. Should any sediment migrate onto Prescott Street during construction, the sediment will be swept up daily by the contractor or contractor's subcontractors. Utility installation will be coordinated with the Department of Public Works and the appropriate utility companies in East Boston.



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Submitted: 12/05/2019 14:56:54

A.1 - Project Information

- Project Address:
- Filing Type:
- Filing Contact:

| 93-95 Presco | ott Street, East Bostor | n, MA 02128 | |
|------------------------|-----------------------------|---------------------------------|------------|
| Constructio | n / Certificate of Occu | pancy (post construction co | mpletion) |
| Matt Provenche r | Williams & Sparages, LLC | mprovencher@wsengin eers.com | 9785398088 |
| No | MEPA date: | | |

Is MEPA approval required?

A.2 - Project Team

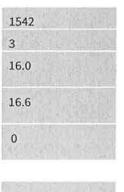
| | | CALL AND A REPORT OF A DATA OF A |
|--------------------------|---|--|
| Owner / Developer: | LAR Property Management, LLC | |
| Architect: | Curtis DiBenedetto and Associates, Inc. | 기상 말 같은 것 같은 것이라는 것이라. |
| Engineer: | | |
| Sustainability / LEED: | N/A | |
| Permitting: | Williams & Sparages, LLC | |
| Construction Management: | LAR Property Management, LLC | |

A.3 - Project Description and Design Conditions

| List the principal Building Uses: | Residential |
|---|---|
| List the First Floor Uses: | Residential |
| List any Critical Site Infrastructure and or Building Uses: | Water, sewer, natural gas, electric, and CATV services. |

Site and Building:

| Site Area (SF): | 2100 | Building Area (SF): |
|---|-------|---|
| Building Height (Ft): | 33.75 | Building Height (Stories): |
| Existing Site Elevation – Low (Ft BCB): | 13.1 | Existing Site Elevation – High (Ft BCB): |
| Proposed Site Elevation – Low (Ft BCB): | 14.6 | Proposed Site Elevation – High (Ft BCB): |
| Proposed First Floor Elevation (Ft BCB): | 17.5 | Below grade spaces/levels (#): |
| Article 37 Green Building: | | |
| LEED Version - Rating System: | N/A | LEED Certification: |



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Proposed LEED rating:

Certified

Proposed LEED point score (Pts.):

Building Envelope:

When reporting R values, differentiate between R discontinuous and R continuous. For example, use "R13" to show R13 discontinuous and use R10c.i. to show R10 continuous. When reporting U value, report total assembly U value including supports and structural elements.

| Roof: | R38 | Exposed Floor : | R30 |
|---|-----------------------------------|---|------------|
| Foundation Wall: | n/a | Slab Edge (at or below grade): | R10c.i |
| Vertical Above-grade Assemblies (% | 6's are of total vertical a | rea and together should total 100%): | |
| Area of Opaque Curtain Wall & Spandrel Assembly: | | Wall & Spandrel Assembly Value: | .048 |
| Area of Framed & Insulated / Standard Wall: | 82.6% | Wall Value: | R21 |
| Area of Vision Window: | 16.2% | Window Glazing Assembly Value: | 0.30 |
| | | Window Glazing SHGC: | 0.30 |
| Area of Doors: | 1.2% | Door Assembly Value : | 0.20 |
| Energy Loads and Performance For this filing – describe how energy loads & performance were determined | Ekotrope modeling, IE | CC 2015 UA Compliance and system spec | ifications |
| Annual Electric (kWh): | 15497 | Peak Electric (kW): | 5.2 |
| Annual Heating (MMbtu/hr): | 133.8 | Peak Heating (MMbtu): | 0.76 |
| Annual Cooling (Tons/hr): | 0.80 | Peak Cooling (Tons): | 3.0 |
| - Energy Use - Below ASHRAE 90.1 2013 (%): | 7.2 | Have the local utilities reviewed the building energy performance?: | No |
| Energy Use - Below Mass. Code (%): | 5.3 | Energy Use Intensity (kBtu/SF): | 30.7 |
| Back-up / Emergency Power Syst | em | | |
| Electrical Generation Output (kW): | 0 | Number of Power Units: | 0 |
| System Type (kW): | 0 | Fuel Source: | n/a |
| Emergency and Critical System L | .oads (in the event of a s | ervice interruption) | |
| Electric (kW): | 5.2 | Heating (MMbtu/hr): | .76 |
| | | Cooling (Tons/hr): | 3.0 |

Boston Climate Change Report Summary – Page 2 of 5



B - Greenhouse Gas Reduction and Net Zero / Net Positive Carbon Building Performance

Reducing greenhouse gas emissions is critical to avoiding more extreme climate change conditions. To achieve the City's goal of carbon-neutrality by 2050 the performance of new buildings will need to progressively improve to carbon net zero and net positive.

B.1 – GHG Emissions - Design Conditions

For this filing - Annual Building GHG Emissions (Tons):

For this filing - describe how building energy performance has been integrated into project planning, design, and engineering and any supporting analysis or modeling:

Describe building specific passive energy efficiency measures including orientation, massing, building envelop, and systems:

Describe building specific active energy efficiency measures including high performance equipment, controls, fixtures, and systems:

Describe building specific load reduction strategies including on-site renewable energy, clean energy, and storage systems:

Describe any area or district scale emission reduction strategies including renewable energy, central energy plants, distributed energy systems, and smart grid infrastructure:

Describe any energy efficiency assistance or support provided or to be provided to the project:

B.2 - GHG Reduction - Adaptation Strategies

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Describe how the building and its systems will evolve to further reduce GHG emissions and achieve annual carbon net zero and net positive performance (e.g. added efficiency measures, renewable energy, energy storage, etc.) and the timeline for meeting that goal (by 2050):

C - Extreme Heat Events

Annual average temperature in Boston increased by about 2°F in the past hundred years and will continue to rise due to climate change. By the end of the century, the average annual temperature could be 56° (compared to 46° now) and the number of days above 90° (currently about 10 a year) could rise to 90.

C.1 – Extreme Heat - Design Conditions

Temperature Range - Low (Deg.): -10

Annual Heating Degree Days:

Temperature Range - High (Deg.): Annual Cooling Degree Days



What Extreme Heat Event characteristics will be / have been used for project planning

4

Days - Above 90° (#):

Number of Heatwaves / Year (#): 1

Days - Above 100° (#): 1

Average Duration of Heatwave (Days): 4

Describe all building and site measures to reduce heat-island effect at the site and in the surrounding area:

C.2 - Extreme Heat - Adaptation Strategies

Describe how the building and its systems will be adapted to efficiently manage future higher average temperatures, higher extreme temperatures, additional annual heatwaves, and longer heatwaves:

Describe all mechanical and non-mechanical strategies that will support building functionality and use during extended interruptions of utility services and infrastructure including proposed and future adaptations:

D - Extreme Precipitation Events

From 1958 to 2010, there was a 70 percent increase in the amount of precipitation that fell on the days with the heaviest precipitation. Currently, the 10-Year, 24-Hour Design Storm precipitation level is 5.25". There is a significant probability that



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this will increase to at least 6" by the end of the century. Additionally, fewer, larger storms are likely to be accompanied by more frequent droughts.

D.1 – Extreme Precipitation - Design Conditions

What is the project design precipitation level? (In. / 24 Hours)

Describe all building and site measures for reducing storm water run-off:

7

Construction of a new 1000 gallon infiltration drywell with stone.

D.2 - Extreme Precipitation - Adaptation Strategies

Describe how site and building systems will be adapted to efficiently accommodate future more significant rain events (e.g. rainwater harvesting, on-site storm water retention, bio swales, green roofs):

Construction of a new 1000 gallon infiltration drywell with stone.

E – Sea Level Rise and Storms

Under any plausible greenhouse gas emissions scenario, the sea level in Boston will continue to rise throughout the century. This will increase the number of buildings in Boston susceptible to coastal flooding and the likely frequency of flooding for those already in the floodplain.

Is any portion of the site in a FEMA Special Flood Hazard Area? What Zone:

AE 16.5

What is the current FEMA SFHA Zone Base Flood Elevation for the site (Ft BCB)? 16.5

Yes

Is any portion of the site in the BPDA Sea Level Rise Flood Yes Hazard Area (see <u>SLR-FHA online map</u>)?

If you answered YES to either of the above questions, please complete the following questions. Otherwise you have completed the questionnaire; thank you!

E.1 - Sea Level Rise and Storms - Design Conditions

Proposed projects should identify immediate and future adaptation strategies for managing the flooding scenario represented by the Sea Level Rise Flood Hazard Area (SLR-FHA), which includes 3.2' of sea level rise above 2013 tide levels, an additional 2.5" to account for subsidence, and the 1% Annual Chance Flood. After using the SLR-FHA to identify a project's Sea Level Rise Base Flood Elevation, proponents should calculate the Sea Level Rise Design Flood Elevation by

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adding 12" of freeboard for buildings, and 24" of freeboard for critical facilities and infrastructure and any ground floor residential units.

What is the Sea Level Rise -Base Flood Elevation for the site (Ft BCB)?

- What is the Sea Level Rise -Design Flood Elevation for the site (Ft BCB)?
- What are the Site Elevations at Building (Ft BCB)?

19.5 20.5 16.6

First Floor Elevation (Ft BCB):

17.5

What is the Accessible Route Elevation (Ft BCB)?

Describe site design strategies for adapting to sea level rise including building access during flood events, elevated site areas, hard and soft barriers, wave / velocity breaks, storm water systems, utility services, etc.:

Describe how the proposed Building Design Flood Elevation will be achieved including dry / wet flood proofing, critical systems protection, utility service protection, temporary flood barriers, waste and drain water back flow prevention, etc.:

Describe how occupants might shelter in place during a flooding event including any emergency power, water, and waste water provisions and the expected availability of any such measures:

Describe any strategies that would support rapid recovery after a weather event:

E.2 – Sea Level Rise and Storms – Adaptation Strategies

Describe future site design and or infrastructure adaptation strategies for responding to sea level rise including future elevating of site areas and access routes, barriers, wave / velocity breaks, storm water systems, utility services, etc.:

Describe future building adaptation strategies for raising the Sea Level Rise Design Flood Elevation and further protecting critical systems, including permanent and temporary measures:

Thank you for completing the Boston Climate Change Checklist!

For questions or comments about this checklist or Climate Change best practices, please contact: John.Dalzell@boston.gov

Boston Climate Change Report Summary – Page 6 of 5

STORMWATER REPORT

Proposed Building 93-95 Prescott Street East Boston, Massachusetts

December 5, 2019

Owner (95 Prescott)/Applicant: 687 Saratoga Street Realty Trust 282 Bennington Street East Boston, MA 02128

> Owner (93 Prescott): LAR Property Management 282 Bennington Street East Boston, MA 02128

<u>Prepared By</u> Williams & Sparages, LLC 189 North Main Street, Suite 101 Middleton, MA 01949 Ph: 978-539-8088 Fax: 978-539-8200 <u>www.wsengineers.com</u>

<u>W&S Project Data</u> EBOS-0027 SPprescott#93-95_BWSC_R1.dwg Existing.hcp Proposed.hcp

p:\ebos-0027(93-95 prescott street)\drainage\stormwater_report.docx

W-- Cee WILLIAMS SPARAGES INCIREIS - FRANCES - SURVYOOD

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1 | Mitigative Drainage Analysis

1.1 Purpose

The purpose of this analysis is to compare the pre-development watershed condition to the post development watershed condition for the project located at 93-95 Prescott Street in n, MA. This is accomplished by analyzing the surface runoff rates to the limit of watershed analysis as shown on the accompanying watershed maps. The result of this analysis is presented below in the Peak Rate of Runoff tables.

1.2 Introduction

The site of the Project is comprised of 2 parcels with a combined area of 2,100 square feet currently improved by a 2 story 2-family home. The site is mostly impervious with the existing building, pavement, and concrete patio. A small portion of the site behind the building contains planters and some bare ground overgrown with weeds.

The proposal is to improve the site by constructing a 1,570 s.f. building to be used as a 3 story multi-family dwelling with decks, 1,000-gallon drywell, and utilities.

The proposed redevelopment of the subject property results in a slight reduction in impervious surfaces. As an added benefit, an infiltration drywell has been designed to capture runoff from the roof. The 1,000 gallon drywell is to be located below the deck area and will be surrounded with crushed stone on all sides. This infiltration device has been designed to capture 1-inch of runoff from the roof.

It should be noted that the subject property is located within a Flood Hazard Area, Zone AE, elevation 10 NGVD (elevation 16.5 Boston City Base), as shown on Flood Insurance Rate Map (FIRM) Community Panel Number 25025C0019J, map revised March 16, 2016. The flood waters are associated with coastal storm flow from the Atlantic Ocean, therefore, the subject property lies with the wetland resource area known as Land Subject to Coastal Storm Flowage (LSCSF). There is no performance standard for work within LSCSF. As the project and site are subject to flow from the Atlantic Ocean, the proposed work can have no measureable effect on potential flooding on the property.

1.3 Existing Condition Soils Analysis

In order to model the excess runoff for both the existing and proposed watershed condition, the parent soils on site were mapped using the Web Soil Survey (WSS) made available on the United States Department of Agriculture (USDA) National Resources Conservation Service (NRCS) website. The WSS provides vital soil data and information such as Hydrologic Soil Group (HSG), which is then input into a mathematical model to generate runoff curve numbers.

The user inputs soil cover type as well as the hydrologic soil group to generate a weighted curve number (CN) and also uses the topography of the land to generate a time of concentration (Tc) from which the stormwater runoff rate and volume can be calculated for a given watershed for comparison. The soils present on site are comprised of urban land, wet substratum, which does not have an assigned HSG rating by the NRCS.



1.4 Stormwater Modeling Methodology

The mathematical model used in this analysis is computed using the stormwater modeling software HydroCAD, v10.00, developed by HydroCAD Software Solutions LLC. HydroCAD is a program used to model the hydrology and hydraulics of stormwater runoff and is based largely on programs and techniques developed by the NRCS, specifically TR-20 and TR-55 as well as other hydraulic calculation methods.

HydroCAD allows the user, for a given rainfall event, to generate runoff hydrographs for single or multiple watersheds and is used to determine if a given drainage system is adequate under the desired conditions and to predict flooding or other hydraulic impacts at specified locations such as erosion.

Four design storm events are analyzed and the results presented below for the 2-year, 10 year, and 100-year storm events for comparison.

1.5 Pre-Development Watershed

The total pre-development watershed area is separated into two (2) sub catchments resulting from existing topography and for comparison with the post-development condition.

Comparison edge 1L represents surficial flow tributary towards Prescott Street and then into the municipal drainage system amounts to approximately 528 ft².

Comparison edge 2L represents surficial flow tributary towards the northwesterly property boundary abutting the passageway and the existing drywell amounts to approximately 1,572 ft².

The total watershed area within the limit of watershed analysis is 2,100 ft² and is represented by link 3L.

Using the methods described in the stormwater modeling methodology above, runoff curve numbers and times of concentration are generated for each watershed for the pre-development condition to be used for comparison with the post-development condition described below. A schematic of the mathematical model and the results of the calculations for the 2-year, 10-year, and 100-year Type III, 24-hour storm events are included in this analysis.

1.6 Post-Development Watershed

Similar to the pre-development condition, the post-development watershed is separated into three (3) sub catchments.

Comparison edge 1L represents the flow towards the municipal drainage system in Prescott Street and amounts to 2,100 ft².

Comparison edge 2L represents surficial flow tributary from the passageway into the proposed trench drain and amounts to approximately 232 ft².

Comparison edge 4L represents the surficial flow towards the proposed Trench Drain adjacent to Prescott Street and amounts to approximately 298 ft²

Subcatchment 5S represents the roof area that discharges into the proposed 1,000-gallon drywell. Watershed area 3L amounts to approximately 1,570 ft².

The total watershed area within the limit of watershed analysis is 2,100 ft² and is represented by link 3L.

Stormwater runoff from the roof area will be collected by roof drains which discharge into a subsurface 1,000-gallon drywell. The drywell is proposed to be installed with six (6) inches of stone surrounding the structure on all sides and twelve (12) inches of stone on the bottom. The infiltration drywell with stone is designed to capture one (1) inch of runoff from the roof area and is equipped with an overflow pipe should the systems reach their capacities. The overflow pipe is proposed to connect to the City drainage system in Prescott Street. We are also installing trench drains where noted above to capture runoff and direct towards the proposed drywell.

Using the methods described in the stormwater modeling methodology above, runoff curve numbers and times of concentration were generated for each watershed for the proposed condition to be used for comparison with the existing condition. A schematic of the mathematical model and the results of the calculations for the 2-year, 10 year, and 100-year, Type III, 24-hour storm events are included in this analysis.

1.7 Compliance with DEP Stormwater Management Standards

Standard 1

No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

Not applicable.

Standard 2

Stormwater management systems shall be designed so that post-development peak discharge rates do not exceed predevelopment peak discharge rates. This Standard may be waived for discharges to land subject to coastal storm flowage as defined in 310 CMR 10.04.

Not applicable, waiver requested because the project is located in land subject to coastal storm flowage.

Standard 3

Loss of annual recharge to groundwater shall be eliminated or minimized through the use of infiltration measures including environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from the pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

The project proposes the use of a 1,000-gallon drywell for groundwater recharge practice.

Standard 4

Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS). This Standard is met when:

a. Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan, and thereafter are implemented and maintained;

b. Structural stormwater best management practices are sized to capture the required water quality volume determined in accordance with the Massachusetts Stormwater Handbook; and

c. Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook

Not applicable.

Standard 5

For land uses with higher potential pollutant loads, source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable. If through source control and/or pollution prevention all land uses with higher potential pollutant loads cannot be completely protected from exposure to rain, snow melt, and stormwater runoff, the proponent shall use specific structural stormwater BMPs determined by the Department to be suitable for such uses as provided in the Massachusetts Stormwater Handbook. Stormwater discharges from land uses with higher potential pollutant loads shall also comply with the requirements of the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26-53 and the regulations promulgated there under at 314 CMR 3.00, 314 CMR 4.00 and 314 CMR 5.00.

Not applicable.

Standard 6

Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply, and stormwater discharges near or to any other critical area, require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook. A discharge is near a critical area if there is a strong likelihood of a significant impact occurring to said area, taking into account site-specific factors. Stormwater discharges to Outstanding Resource Waters and Special Resource Waters shall be removed and set back from the receiving water or wetland and receive the highest and best practical method of treatment. A "storm water discharge" as defined in 314 CMR 3.04(2) (a) (1 or (b) to an Outstanding Resource Water or Special Resource Water shall comply with 314 CMR 3.00 and 314 CMR 4.00. Stormwater discharges to a Zone I or Zone A are prohibited unless essential to the operation of public water supply.

Not applicable.

Standard 7

A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural best management practice requirements of Standards 4, 5, and 6. Existing stormwater discharges shall comply with Standard 1 only to the maximum extent practicable. A redevelopment project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions.

There is a slight reduction in the amount of impervious area, therefore the project does meet the criteria for a Redevelopment Project and the project is in compliance to the maximum extent practicable.

Standard 8

A plan to control construction-related impacts including erosion, sedimentation and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.

See previously submitted Erosion & Sediment Control Plan in the Notice of Intent package.

Standard 9

A long-term operation and maintenance plan shall be developed and implemented to ensure that stormwater management systems function as designed.

See the previously submitted Operation & Maintenance Plan (O&M) and Long-Term Pollution Prevention Plan in the Notice of Intent package.

Standard 10

All illicit discharges to the stormwater management system are prohibited.

Illicit Discharge Compliance Statement

No connection between the stormwater and wastewater management systems is proposed. Per requirements of Standard 10 it is herein stated that there are no proposed illicit discharges into the Stormwater Management System to be constructed as shown on the site plan.

1.8 Conclusion

As you can see by examining the following Peak Rate of Runoff and Basin Performance tables, there is a slight decrease in the 2-year storm but no increase in the amount of runoff generated for the 10- & 100-year storms on the site, see table 1. Although there will be a negligible increase in the peak flow rates to the municipal drainage system for the 2, 10, and 100-year storm events, there will be a reduction in the peak rate of runoff of surface flow towards Prescott Street as now all of the runoff from the site will be intercepted and then piped directly into the municipal drainage system.

Therefore, we are meeting the requirement to the maximum extent practicable as we are a Redevelopment and we lie within a Land Subject to Coastal Storm Flowage with the waiver.



| Tuble 1.0: Peak Kale of Kanoff Comparison Location SL (Total ranoff generated on site) | | | | | |
|--|---------------------|---------|--|--|----------|
| Description | 2 Year | 10 Year | | | 100 Year |
| Existing Peak Rate of Runoff (cfs) | 0.14 | 0.21 | | | 0.30 |
| Proposed Peak Rate of Runoff (cfs) | 0.13 | 0.21 | | | 0.30 |
| Difference | -0.01 Negligible | 0.0 | | | 0.0 |

Table 1.0: Peak Rate of Runoff | Comparison Location 3L (Total runoff generated on site)

Table 2.0: Peak Rate of Runoff | Comparison Location 2L (Flow to existing drywell)

| Description | 2 Year | 10 Year | 100 Year |
|---------------------------------------|--|---------|----------|
| Existing Peak Rate of Runoff (cfs) | 0.11 | 0.16 | 0.23 |
| Proposed Peak Rate of Runoff (cfs) | NA | NA | NA |
| Difference | Drywell removed in proposed condition | | |

Table 3.0: Peak Rate of Runoff | Comparison Location 1L (Flow to municipal drainage)

| Description | 2 Year | 10 Year | 100 Year |
|---------------------------------------|--------------------|---------------------|---------------------|
| Existing Peak Rate of Runoff (cfs) | 0.04 | 0.05 | 0.08 |
| Proposed Peak Rate of Runoff (cfs) | 0.13 | 0.21 | 0.30 |
| Difference | +.09 Negligible | +0.16 Negligible | +0.22 Negligible |

Table 3.0: Stormwater Management Area 1P |1,000 Gallon Drywell Performance Table

| 24 Hour | | Peak Rates of 1 | Peak Rates of runoff out (cfs) | | | |
|-------------|--------------|-----------------|--------------------------------|--|-------------|------------|
| Type III | Peak Rate of | Total | Exfiltration | | 8" Overflow | Peak Water |
| Storm event | Inflow (cfs) | Outflow (cfs) | (cfs) | | (cfs) | Level (ft) |
| 2 year | 0.14 | 0.13 | 0.0 | | 0.13 | 10.41 |
| 10 year | 0.21 | 0.21 | 0.0 | | 0.21 | 10.45 |
| | | | | | | |
| 100 year | 0.30 | 0.30 | 0.0 | | 0.30 | 10.51 |

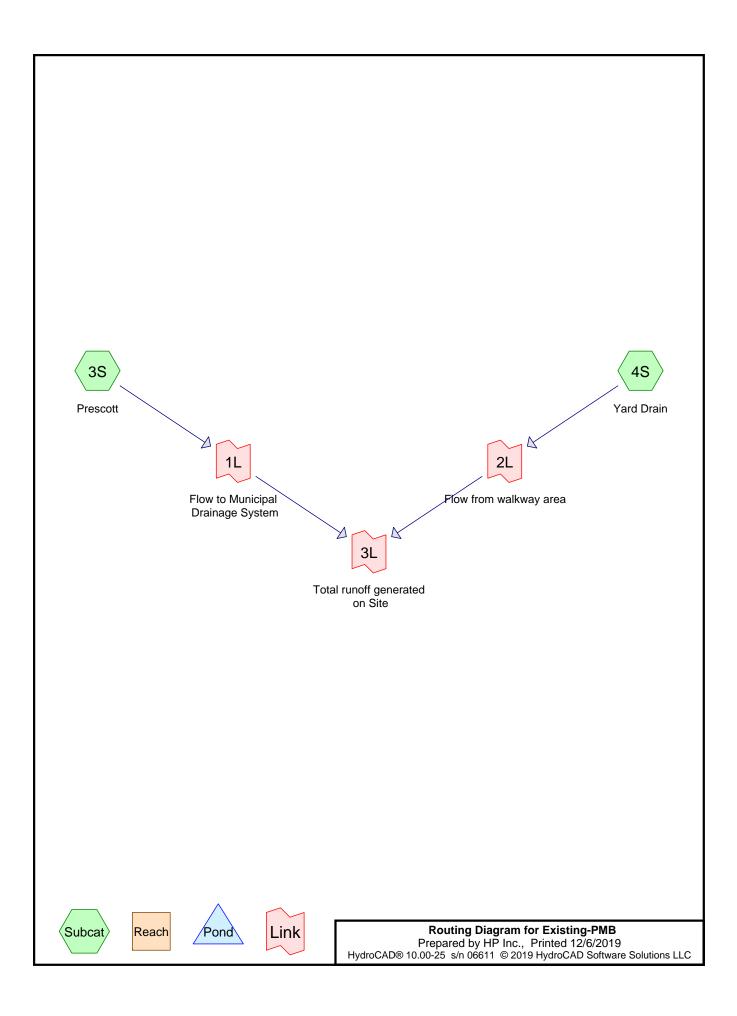


1.9 HydroCAD Data



Existing Condition





Existing Condition Watershed Analysis - 93-95 Prescott Street East Boston MA

| Existing-PMB | |
|---|-------------------|
| Prepared by HP Inc. | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n 06611 © 2019 HydroCAD Software Solutions LLC | Page 2 |

Area Listing (all nodes)

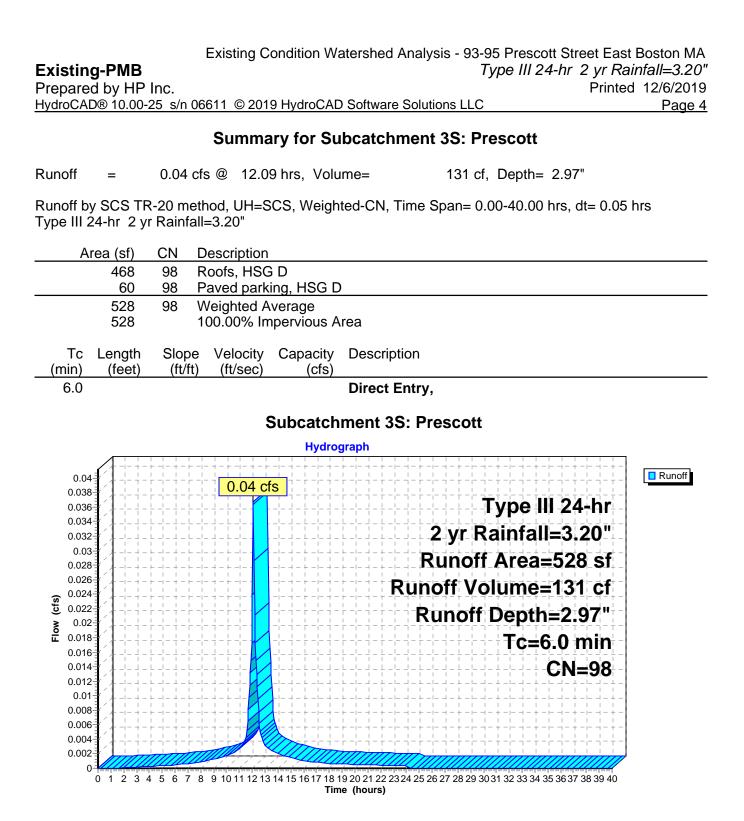
| Area | CN | Description |
|---------|----|------------------------------------|
| (sq-ft) | | (subcatchment-numbers) |
| 223 | 89 | <50% Grass cover, Poor, HSG D (4S) |
| 923 | 98 | Paved parking, HSG D (3S, 4S) |
| 954 | 98 | Roofs, HSG D (3S, 4S) |
| 2,100 | 97 | TOTAL AREA |

Existing Condition Watershed Analysis - 93-95 Prescott Street East Boston MA

| Existing-PMB | |
|---|-------------------|
| Prepared by HP Inc. | Printed 12/6/2019 |
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Soil Listing (all nodes)

| Area (sq-ft) | Soil Group | Subcatchment Numbers |
|-----------------|---------------|-------------------------|
| 0 | HSG A | |
| 0 | HSG B | |
| 0 | HSG C | |
| 2,100 | HSG D | 3S, 4S |
| 0 | Other | |
| 2,100 | | TOTAL AREA |



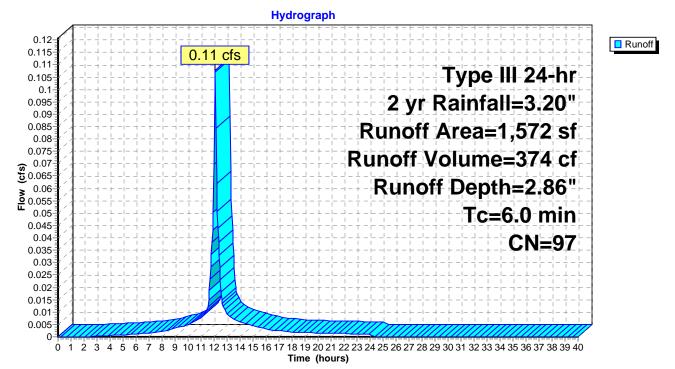
Summary for Subcatchment 4S: Yard Drain

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 374 cf, Depth= 2.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 2 yr Rainfall=3.20"

| A | rea (sf) | CN I | Description | | | | |
|-------|----------|---------|------------------------|-------------|---------------|--|--|
| | 486 | 98 I | Roofs, HSC | G D | | | |
| | 863 | 98 I | Paved park | ing, HSG D | | | |
| | 223 | 89 • | <50% Gras | s cover, Po | por, HSG D | | |
| | 1,572 | 97 | Weighted Average | | | | |
| | 223 | | 14.19% Pervious Area | | | | |
| | 1,349 | 8 | 85.81% Impervious Area | | | | |
| _ | | | | . . | | | |
| Tc | Length | Slope | | Capacity | Description | | |
| (min) | (feet) | (ft/ft) | (ft/sec) | (cfs) | | | |
| 6.0 | | | | | Direct Entry, | | |

Subcatchment 4S: Yard Drain

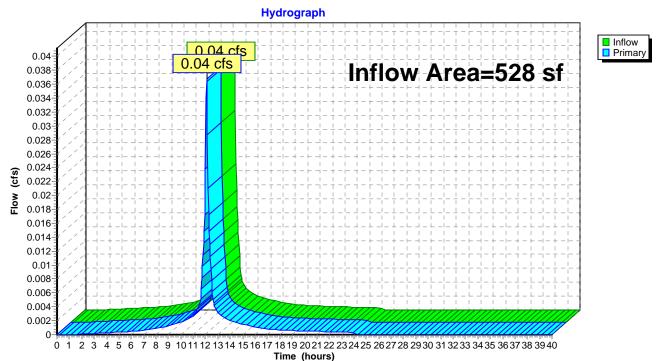


Summary for Link 1L: Flow to Municipal Drainage System

| Inflow Area = | | 528 sf,100.00% Impervious, Inflow Depth = 2.97" for 2 yr event | |
|---------------|---|--|---|
| Inflow | = | 0.04 cfs @ 12.09 hrs, Volume= 131 cf | |
| Primary | = | 0.04 cfs @ 12.09 hrs, Volume= 131 cf, Atten= 0%, Lag= 0.0 mir | n |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



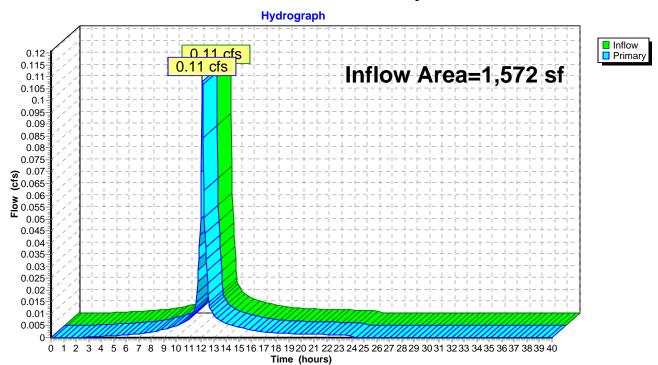


| | Existing Condition Watershed Analysis - 93-98 | 5 Prescott Street East Boston MA |
|--------------------------|---|----------------------------------|
| Existing-PMB | Ту | pe III 24-hr 2 yr Rainfall=3.20" |
| Prepared by HP Inc. | - | Printed 12/6/2019 |
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Summary for Link 2L: Flow from walkway area

| Inflow Area = | | 1,572 sf, 85.81% Impervious, Inflow Depth = 2.86" for 2 yr event |
|---------------|---|--|
| Inflow | = | 0.11 cfs @ 12.09 hrs, Volume= 374 cf |
| Primary | = | 0.11 cfs @ 12.09 hrs, Volume= 374 cf, Atten= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



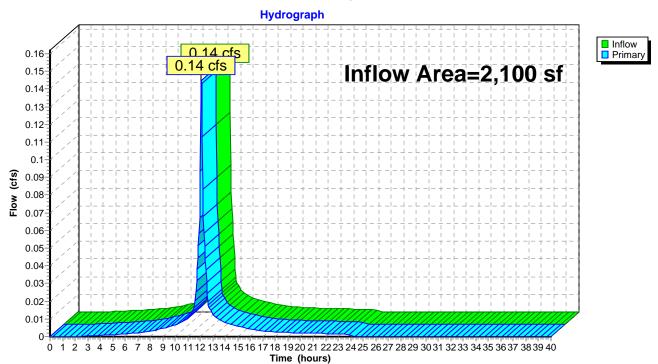
Link 2L: Flow from walkway area

| | Existing Condition Watershed Analysis - 93-95 Pi | rescott Street East Boston MA |
|--------------------------|--|-------------------------------|
| Existing-PMB | Туре | III 24-hr 2 yr Rainfall=3.20" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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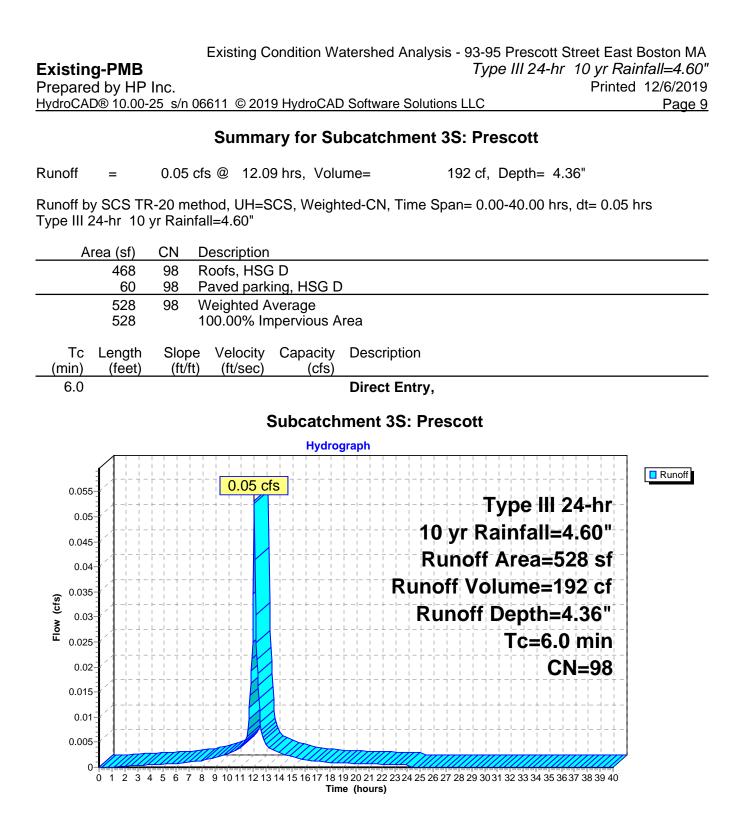
Summary for Link 3L: Total runoff generated on Site

| Inflow Area = | | 2,100 sf, | 89.38% Impervious, | Inflow Depth = 2.88" | for 2 yr event |
|---------------|---|------------|--------------------|----------------------|---------------------|
| Inflow | = | - | 12.09 hrs, Volume= | | |
| Primary | = | 0.14 cfs @ | 12.09 hrs, Volume= | 505 cf, Atter | n= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 3L: Total runoff generated on Site



| | Existing Condition Watershed Analysis - 93-95 Prescott S | Street East Boston MA |
|--------------------------|--|-----------------------|
| Existing-PMB | Type III 24-hr | 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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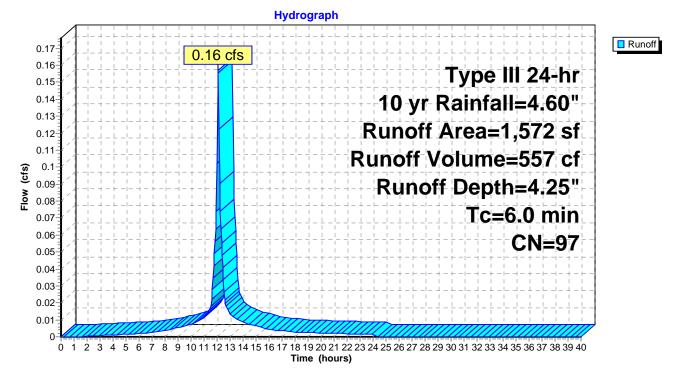
Summary for Subcatchment 4S: Yard Drain

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 557 cf, Depth= 4.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 10 yr Rainfall=4.60"

| Α | rea (sf) | CN I | Description | | |
|-------|----------|---------|-------------|-------------|---------------|
| | 486 | 98 | Roofs, HSC |) D | |
| | 863 | 98 | Paved park | ing, HSG D | D |
| | 223 | 89 · | <50% Gras | s cover, Po | oor, HSG D |
| | 1,572 | 97 | Neighted A | verage | |
| | 223 | | 14.19% Pe | rvious Area | a |
| | 1,349 | ä | 35.81% Imp | pervious Ar | rea |
| - | | ~ | | A | |
| TC | Length | Slope | | Capacity | |
| (min) | (feet) | (ft/ft) | (ft/sec) | (cfs) | |
| 6.0 | | | | | Direct Entry, |

Subcatchment 4S: Yard Drain



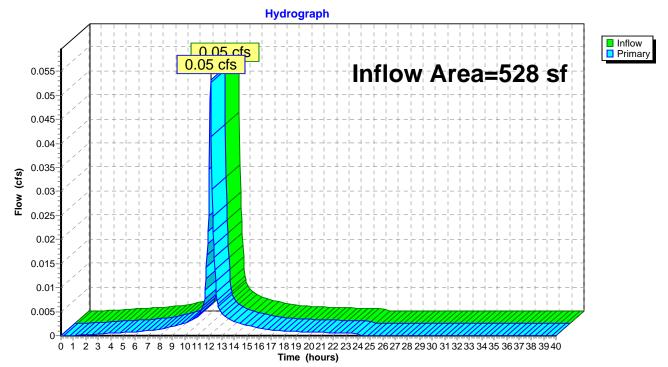
| | Existing Condition Watershed Analysis - 93-95 Prescott S | Street East Boston MA |
|--------------------------|--|-----------------------|
| Existing-PMB | Type III 24-hr | 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 1L: Flow to Municipal Drainage System

| Inflow Area = | | 528 sf,100.00% Impervious, Inflow Depth = 4.36" for 10 yr event | |
|---------------|---|---|--|
| Inflow | = | 0.05 cfs @ 12.09 hrs, Volume= 192 cf | |
| Primary | = | 0.05 cfs @ 12.09 hrs, Volume= 192 cf, Atten= 0%, Lag= 0.0 min | |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 1L: Flow to Municipal Drainage System

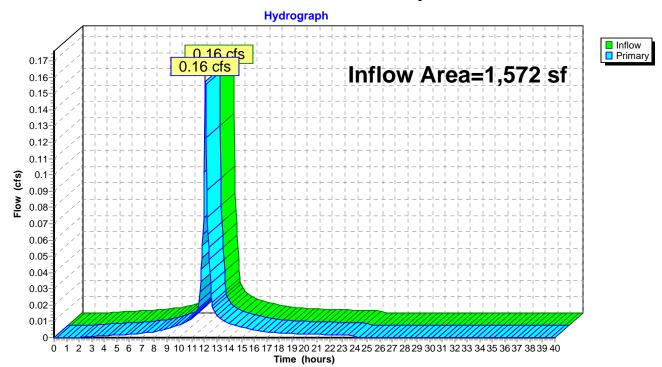


| | Existing Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|--------------------------|--|------------------------|
| Existing-PMB | Type III 24-h | r 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 2L: Flow from walkway area

| Inflow Area = | | 1,572 sf, 85.81% Impervious, Inflow Depth = 4.25" for 10 yr event |
|---------------|---|---|
| Inflow | = | 0.16 cfs @ 12.09 hrs, Volume= 557 cf |
| Primary | = | 0.16 cfs @ 12.09 hrs, Volume= 557 cf, Atten= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 2L: Flow from walkway area

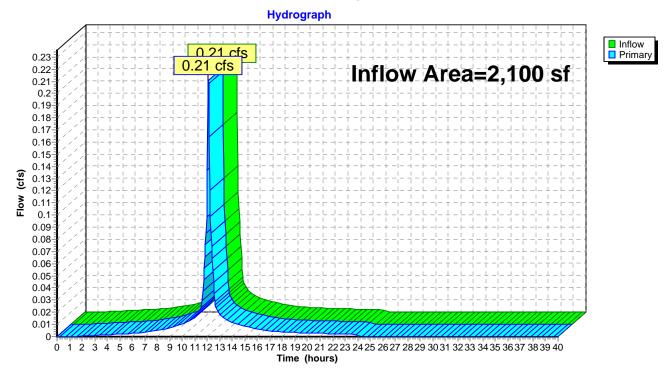
| | Existing Condition Watershed Analysis - 93-95 Prescott S | Street East Boston MA |
|--------------------------|--|-----------------------|
| Existing-PMB | Type III 24-hr | 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n 0 | 6611 © 2019 HydroCAD Software Solutions LLC | Page 13 |

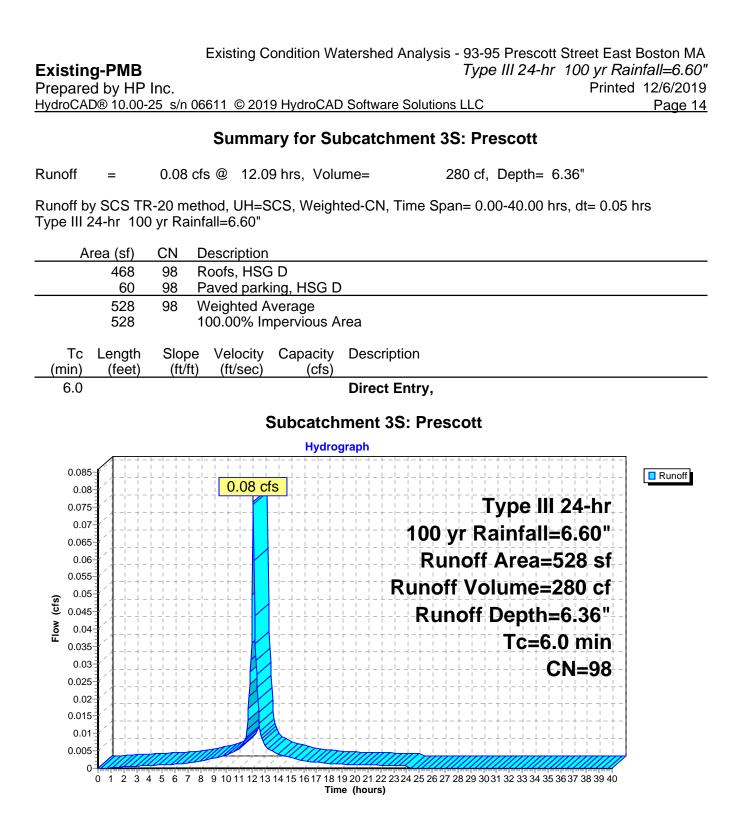
Summary for Link 3L: Total runoff generated on Site

| Inflow Are | a = | 2,100 sf, 89.38% Impervious, Inflow Depth = 4.28" for 10 yr even | t |
|------------|-----|--|-------|
| Inflow | = | 0.21 cfs @ 12.09 hrs, Volume= 749 cf | |
| Primary | = | 0.21 cfs @ 12.09 hrs, Volume= 749 cf, Atten= 0%, Lag= 0.0 |) min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 3L: Total runoff generated on Site





| | Existing Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|--------------------------|--|-----------------------|
| Existing-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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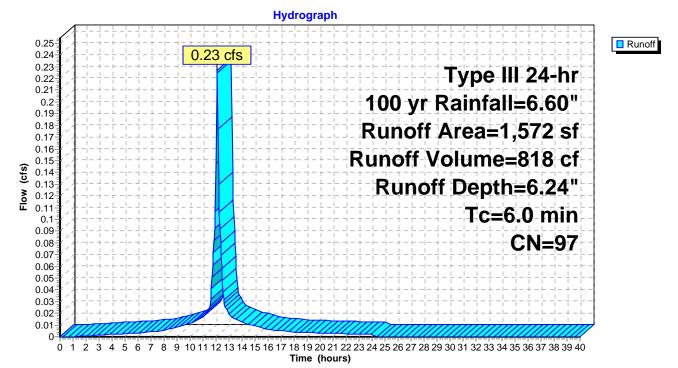
Summary for Subcatchment 4S: Yard Drain

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 818 cf, Depth= 6.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 100 yr Rainfall=6.60"

| rea (sf) | CN | Description | | |
|----------|----------------------------|--|--|---|
| 486 | 98 | Roofs, HSC |) D | |
| 863 | 98 | Paved park | ing, HSG D | |
| 223 | 89 · | <50% Gras | s cover, Po | oor, HSG D |
| 1,572 | 97 | Neighted A | verage | |
| 223 | | 14.19% Pe | rvious Area | а |
| 1,349 | ł | 35.81% Imp | pervious Ar | rea |
| l enath | Slone | Velocity | Canacity | Description |
| • | | | | Description |
| (1900) | (14/14) | (1.2.000) | (0.0) | Direct Entry, |
| | 863 223 1,572 223 | 486 98 1 863 98 1 223 89 97 1,572 97 97 223 97 97 1,349 8 98 Length Slope 97 | 486 98 Roofs, HSC 863 98 Paved park 223 89 <50% Gras | 48698Roofs, HSG D86398Paved parking, HSG I22389<50% Grass cover, Po |

Subcatchment 4S: Yard Drain



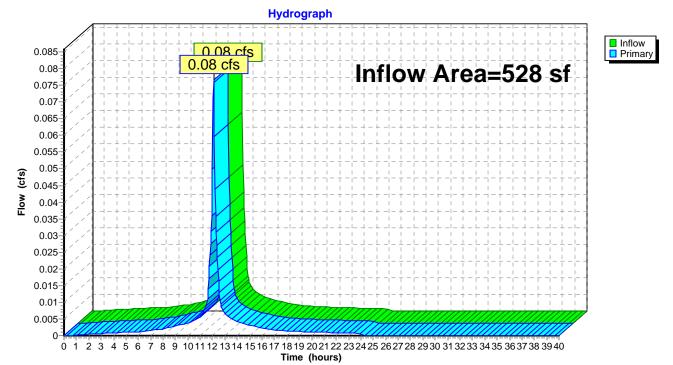
| | Existing Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|--------------------------|--|-----------------------|
| Existing-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 1L: Flow to Municipal Drainage System

| Inflow Area = | | 528 sf,1 | 00.00% Impe | ervious, | Inflow Depth = | 6.36" | for 100 yr event |
|---------------|---|--------------|---------------|----------|----------------|----------|---------------------|
| Inflow | = | 0.08 cfs @ 1 | 12.09 hrs, Vo | olume= | 280 c | f | |
| Primary | = | 0.08 cfs @ 1 | 12.09 hrs, Vo | olume= | 280 c | f, Atter | n= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 1L: Flow to Municipal Drainage System



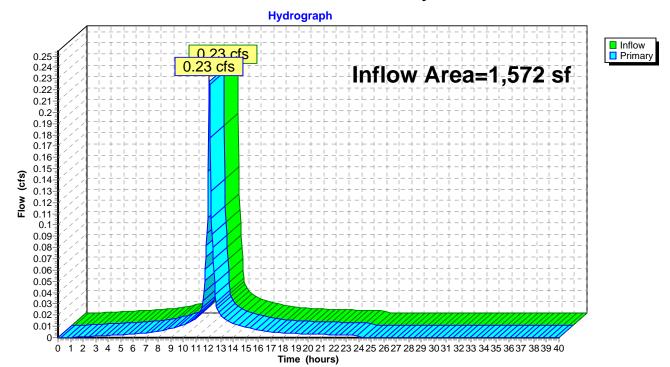
| | Existing Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|--------------------------|--|-----------------------|
| Existing-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n 0 | 6611 © 2019 HydroCAD Software Solutions LLC | Page 17 |

Summary for Link 2L: Flow from walkway area

| Inflow Are | a = | 1,572 sf, 85.81% Impervious, Inflow Depth = 6.24" for 100 yr event | t |
|------------|-----|--|-----|
| Inflow | = | 0.23 cfs @ 12.09 hrs, Volume= 818 cf | |
| Primary | = | 0.23 cfs @ 12.09 hrs, Volume= 818 cf, Atten= 0%, Lag= 0.0 r | min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 2L: Flow from walkway area

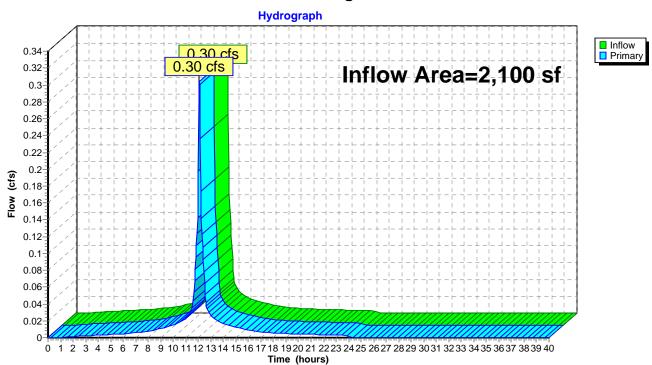


| | Existing Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|--------------------------|--|-----------------------|
| Existing-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 3L: Total runoff generated on Site

| Inflow Are | a = | 2,100 sf, 89.38% Impervious, Inflow Depth = 6.27" for 100 yr event | |
|------------|-----|--|----|
| Inflow | = | 0.30 cfs @ 12.09 hrs, Volume= 1,098 cf | |
| Primary | = | 0.30 cfs @ 12.09 hrs, Volume= 1,098 cf, Atten= 0%, Lag= 0.0 m | in |

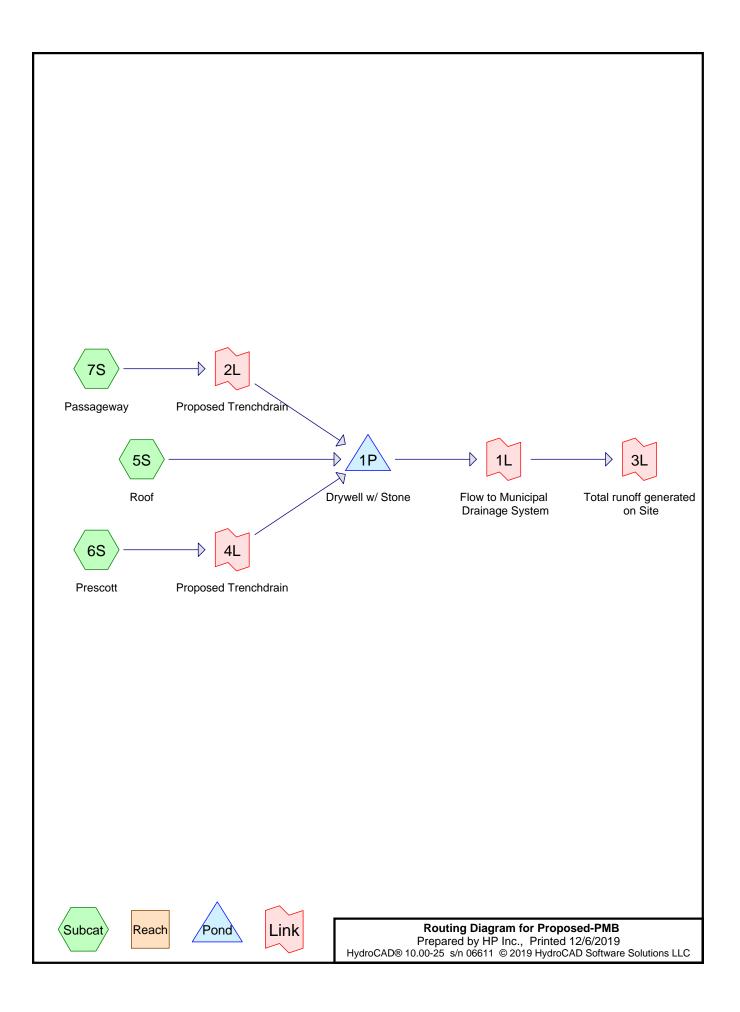
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 3L: Total runoff generated on Site

Proposed Condition





Proposed Condition Watershed Analysis - 93-95 Prescott Street East Boston MA

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|---|-------------------|
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Area Listing (all nodes)

| Area | CN | Description |
|---------|----|-------------------------------|
| (sq-ft) | | (subcatchment-numbers) |
| 509 | 91 | Gravel roads, HSG D (6S, 7S) |
| 21 | 98 | Paved parking, HSG D (7S) |
| 1,570 | 98 | Unconnected roofs, HSG D (5S) |

Proposed-PMB

Proposed-PMB

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Soil Listing (all nodes)

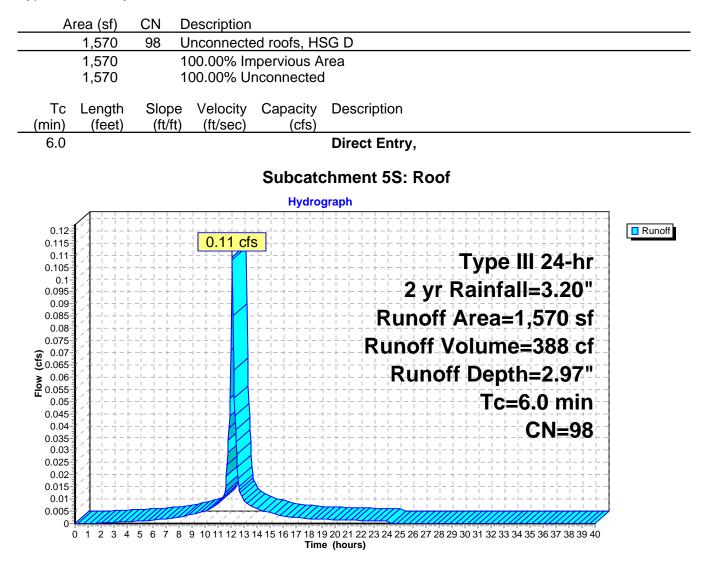
| Area (sq-ft) | Soil Group | Subcatchment Numbers |
|-----------------|---------------|-------------------------|
| 0 | HSG A | |
| 0 | HSG B | |
| 0 | HSG C | |
| 2,100 | HSG D | 5S, 6S, 7S |
| 0 | Other | |

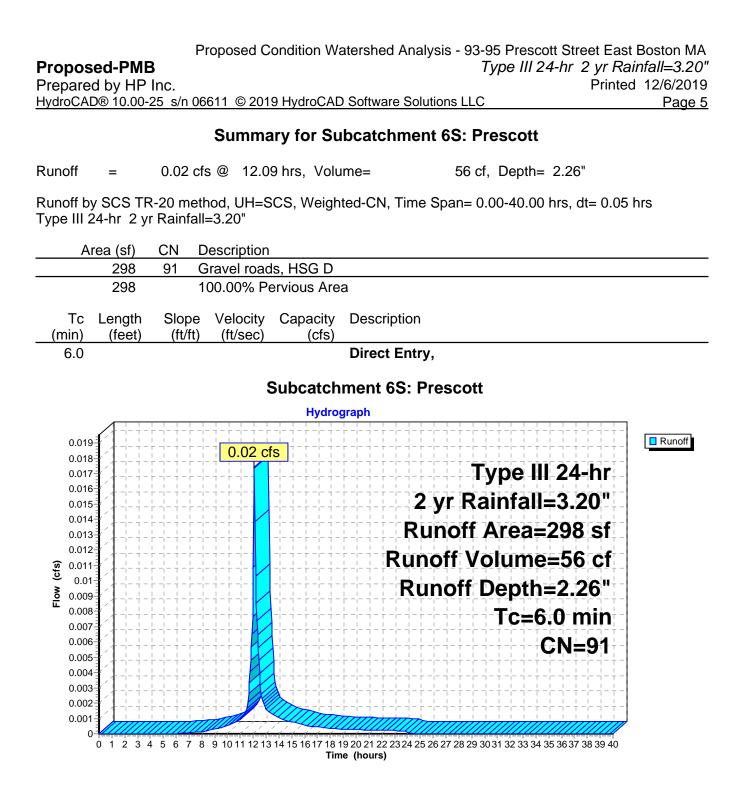
| | Proposed Condition Watershed Analysis - 93-95 | Prescott Street East Boston MA |
|------------------------|---|----------------------------------|
| Proposed-PMB | Тур | be III 24-hr 2 yr Rainfall=3.20" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n | 06611 © 2019 HydroCAD Software Solutions LLC | Page 4 |

Summary for Subcatchment 5S: Roof

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 388 cf, Depth= 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 2 yr Rainfall=3.20"





| | Proposed Condition Watershed Analysis - 93-95 | 5 Prescott Street East Boston MA |
|------------------------|---|----------------------------------|
| Proposed-PMB | Ту | pe III 24-hr 2 yr Rainfall=3.20" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/r | 06611 © 2019 HydroCAD Software Solutions LLC | Page 6 |

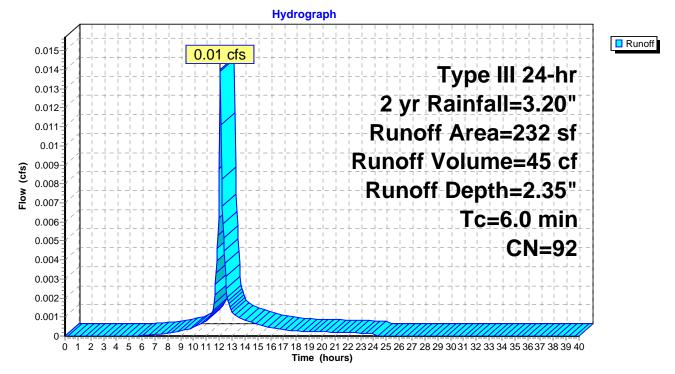
Summary for Subcatchment 7S: Passageway

Runoff = 0.01 cfs @ 12.09 hrs, Volume= 45 cf, Depth= 2.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 2 yr Rainfall=3.20"

| A | rea (sf) | CN | Description | | |
|-------------|------------------|------------------|-------------|-------------------|---------------|
| | 211 | 91 | Gravel road | s, HSG D | |
| | 21 | 98 | Paved park | ing, HSG D | |
| | 232 | 92 | Weighted A | verage | |
| | 211 | | 90.95% Per | vious Area | |
| | 21 | | 9.05% Impe | ervious Area | a |
| Tc (min) | Length (feet) | Slope (ft/ft) | | Capacity (cfs) | Description |
| 6.0 | | | | | Direct Entry, |

Subcatchment 7S: Passageway



| | Proposed Condition Watershed Analysis - 93-95 Pr | rescott Street East Boston MA |
|------------------------|--|-------------------------------|
| Proposed-PMB | Туре | III 24-hr 2 yr Rainfall=3.20" |
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Summary for Pond 1P: Drywell w/ Stone

| Inflow Area = | 2,100 sf, 75.76% Impervious, | Inflow Depth = 2.80" for 2 yr event |
|---------------|-------------------------------|-------------------------------------|
| Inflow = | 0.14 cfs @ 12.09 hrs, Volume= | 490 cf |
| Outflow = | 0.13 cfs @ 12.16 hrs, Volume= | 290 cf, Atten= 5%, Lag= 4.5 min |
| Discarded = | 0.00 cfs @ 3.90 hrs, Volume= | 34 cf |
| Primary = | 0.13 cfs @ 12.16 hrs, Volume= | 255 cf |

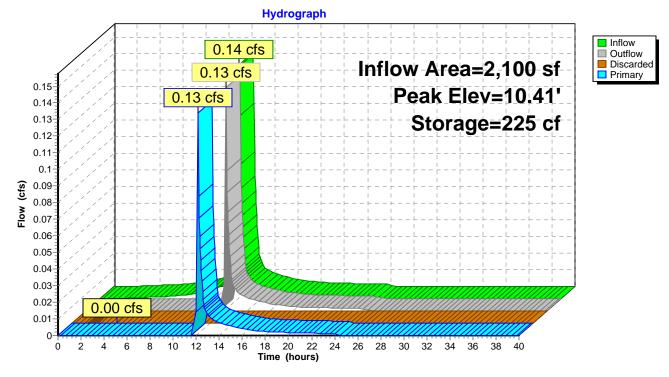
Routing by Dyn-Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs / 3 Peak Elev= 10.41' @ 12.17 hrs Surf.Area= 64 sf Storage= 225 cf

Plug-Flow detention time= 258.6 min calculated for 290 cf (59% of inflow) Center-of-Mass det. time= 150.0 min (915.5 - 765.5)

| Volume | Invert | Avail.Stor | age | Storage Description | |
|--------|-----------|------------|-------|---|--|
| #1 | 5.20' | 3 | 88 cf | 9.00'D x 6.00'H Vertical Cone/Cylinder | |
| | | | | 382 cf Overall - 286 cf Embedded = 95 cf x 40.0% Voids | |
| #2 | 6.70' | 22 | 26 cf | 8.00'D x 4.50'H Vertical Cone/Cylinder Inside #1 | |
| | | | | 286 cf Overall - 6.0" Wall Thickness = 226 cf | |
| | | 26 | 64 cf | Total Available Storage | |
| | | | | | |
| Device | Routing | Invert | Outle | et Devices | |
| #1 | Discarded | 5.20' | 0.17 | 0 in/hr Exfiltration over Surface area | |
| #2 | Primary | 10.20' | 8.0" | Round Culvert | |
| | - | | L= 1 | 02.0' CPP, square edge headwall, Ke= 0.500 | |
| | | | Inlet | / Outlet Invert= 10.20' / 8.82' S= 0.0135 '/' Cc= 0.900 | |
| | | | n= 0 | .010, Flow Area= 0.35 sf | |
| | | | | | |

Discarded OutFlow Max=0.00 cfs @ 3.90 hrs HW=5.26' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.12 cfs @ 12.16 hrs HW=10.39' TW=0.00' (Dynamic Tailwater) ←2=Culvert (Inlet Controls 0.12 cfs @ 1.47 fps)



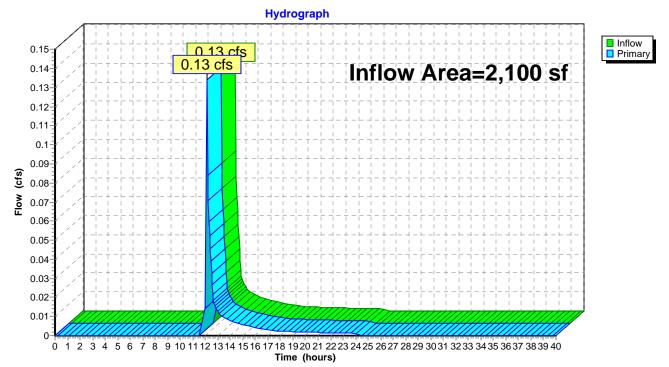
Pond 1P: Drywell w/ Stone

Summary for Link 1L: Flow to Municipal Drainage System

| Inflow Are | a = | 2,100 sf, 7 | 75.76% Impervious, | Inflow Depth = 1.46" for 2 yr event | |
|------------|-----|--------------|--------------------|-------------------------------------|---|
| Inflow | = | 0.13 cfs @ 1 | 2.16 hrs, Volume= | 255 cf | |
| Primary | = | 0.13 cfs @ 1 | 2.16 hrs, Volume= | 255 cf, Atten= 0%, Lag= 0.0 min | ı |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 1L: Flow to Municipal Drainage System

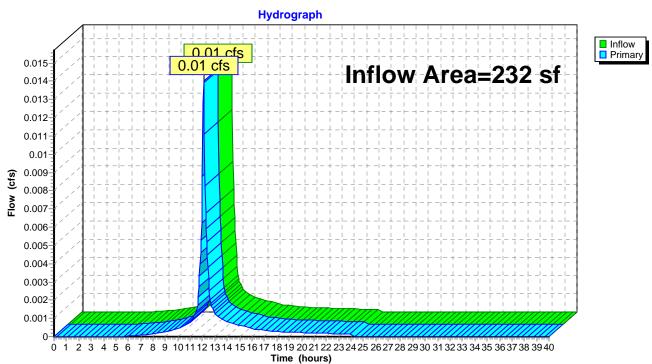


| | Proposed Condition Watershed Analysis - 93-95 F | Prescott Street East Boston MA |
|------------------------|---|---------------------------------|
| Proposed-PMB | Туре | e III 24-hr 2 yr Rainfall=3.20" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 2L: Proposed Trenchdrain

| Inflow Area | a = | 232 sf, | 9.05% Impervious, | Inflow Depth = 2.35" for 2 yr event |
|-------------|-----|--------------|-------------------|-------------------------------------|
| Inflow | = | 0.01 cfs @ 1 | 2.09 hrs, Volume= | 45 cf |
| Primary | = | 0.01 cfs @ 1 | 2.09 hrs, Volume= | 45 cf, Atten= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 2L: Proposed Trenchdrain

| | Proposed Condition Watershed Analysis - 93-95 | Prescott Street East Boston MA |
|------------------------|---|---------------------------------|
| Proposed-PMB | Тур | e III 24-hr 2 yr Rainfall=3.20" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 3L: Total runoff generated on Site

| Inflow Are | a = | 2,100 sf, 75.76% Impervious, Inflow Depth = 1.46" for 2 yr event | |
|------------|-----|--|--|
| Inflow | = | 0.13 cfs @ 12.16 hrs, Volume= 255 cf | |
| Primary | = | 0.13 cfs @ 12.16 hrs, Volume= 255 cf, Atten= 0%, Lag= 0.0 min | |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Hydrograph Inflow Primary 0.13 cfs 0.13 cfs 0.15 Inflow Area=2,100 sf 0.14 0.13 0.12 0.11 0.1 0.09 6.09 6.08 6.07 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 Time (hours)

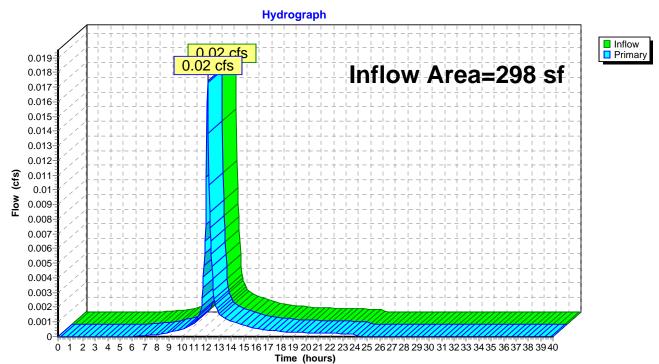
Link 3L: Total runoff generated on Site

| | Proposed Condition Watershed Analysis - 93-95 | 5 Prescott Street East Boston MA |
|------------------------|---|----------------------------------|
| Proposed-PMB | Ту | pe III 24-hr 2 yr Rainfall=3.20" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 4L: Proposed Trenchdrain

| Inflow Area = | 298 sf, | 0.00% Impervious, | Inflow Depth = 2.26" | for 2 yr event |
|---------------|------------|--------------------|----------------------|---------------------|
| Inflow = | 0.02 cfs @ | 12.09 hrs, Volume= | 56 cf | |
| Primary = | 0.02 cfs @ | 12.09 hrs, Volume= | 56 cf, Atte | n= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 4L: Proposed Trenchdrain

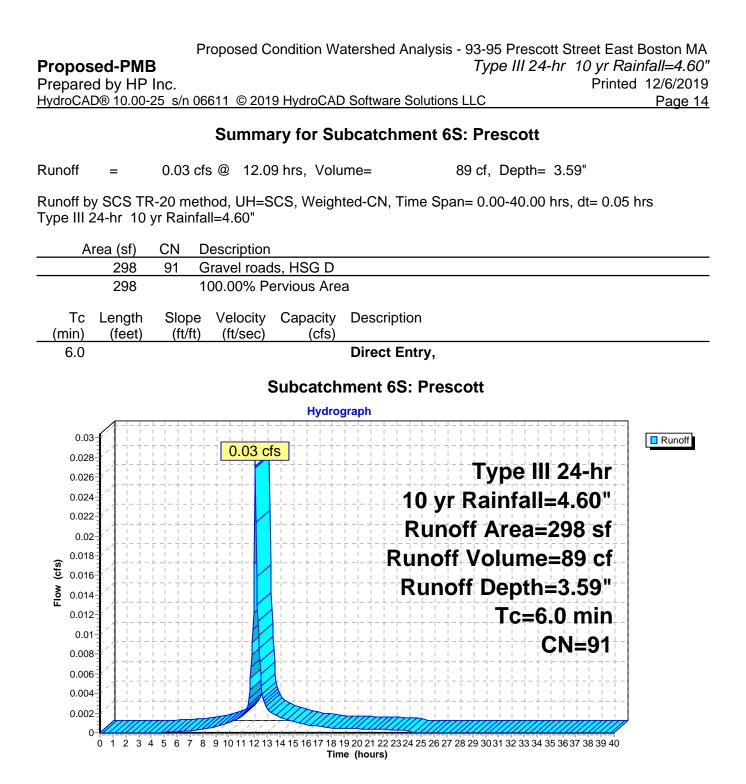
| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Subcatchment 5S: Roof

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 571 cf, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 10 yr Rainfall=4.60"

| | 1,570 | | | pervious A | |
|------------------------------|-------------------------------------|--|---------------------------|-------------------|---------------------------------------|
| | 1,570 | 1 | 00.00% Ur | nconnected | ł |
| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
| 6.0 | | | | | Direct Entry, |
| | | | | Subcate | chment 5S: Roof |
| | | | | Hydro | graph |
| 0.17 | | | | | |
| 0.16 | | · | | > | Type III 24-hr |
| 0.15 | x + - + | | | | |
| 0.14 | / / / | | | | 10 yr Rainfall=4.60" |
| 0.13 0.12 | <pre></pre> | | | | Runoff Area=1,570 sf |
| 0.12 | | | | | · · · · · · · · · · · · · · · · · · · |
| ූ 0.1 | | | ¬-т-с- ⊣-+-⊢- | | Runoff Volume=571 cf |
| LION (cts) 0.09 0.09 0.08 | / I I I I / -I-+-+ | | | | Runoff Depth=4.36" |
| - | | | | | Tc=6.0 min |
| 0.07 | | $-\frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1}$ | | | |
| 0.00 | | | | | :-+ CN=98 |
| 0.04 | | | | | |
| 0.03 | | | | | |
| 0.02 | | | | | |
| 0.01 | | | | IIIIII | |



| | Proposed Condition Watershed Analysis - 93-95 Prescott S | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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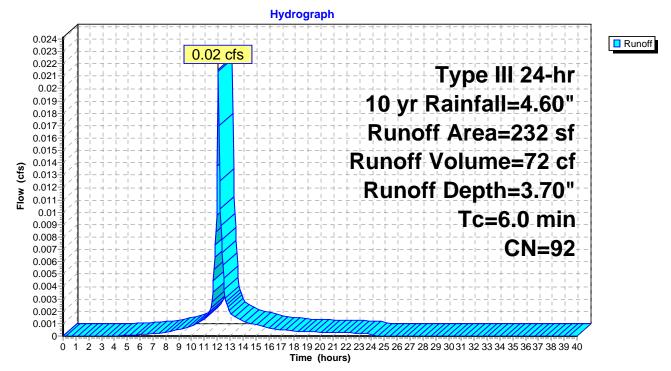
Summary for Subcatchment 7S: Passageway

Runoff = 0.02 cfs @ 12.09 hrs, Volume= 72 cf, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 10 yr Rainfall=4.60"

| Α | rea (sf) | CN | Description | | |
|-------------|------------------|------------------|-------------|-------------------|---------------|
| | 211 | 91 | Gravel road | s, HSG D | |
| | 21 | 98 | Paved park | ing, HSG D | |
| | 232 | 92 | Weighted A | verage | |
| | 211 | | 90.95% Per | vious Area | |
| | 21 | | 9.05% Impe | ervious Area | a |
| Tc (min) | Length (feet) | Slope (ft/ft) | | Capacity (cfs) | Description |
| 6.0 | | | | | Direct Entry, |

Subcatchment 7S: Passageway



| | Proposed Condition Watershed Analysis - 93-95 Prescott \$ | Street East Boston MA |
|------------------------|---|-----------------------|
| Proposed-PMB | Type III 24-hr | 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Pond 1P: Drywell w/ Stone

| Inflow Area = | 2,100 sf, 75.76% Impervious, | Inflow Depth = 4.18" for 10 yr event |
|---------------|-------------------------------|--------------------------------------|
| Inflow = | 0.21 cfs @ 12.09 hrs, Volume= | 732 cf |
| Outflow = | 0.21 cfs @ 12.10 hrs, Volume= | 531 cf, Atten= 0%, Lag= 0.6 min |
| Discarded = | 0.00 cfs @ 2.70 hrs, Volume= | 35 cf |
| Primary = | 0.21 cfs @ 12.10 hrs, Volume= | 496 cf |

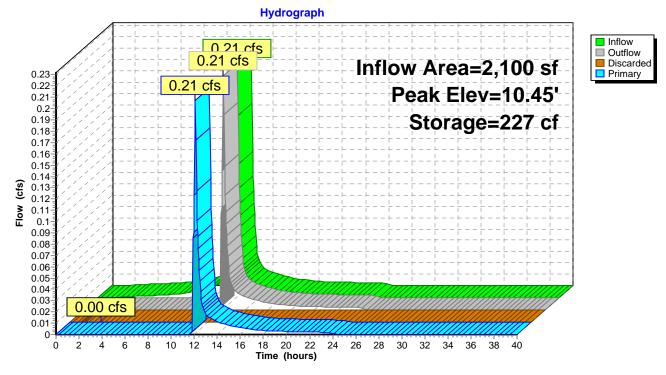
Routing by Dyn-Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs / 3 Peak Elev= 10.45' @ 12.10 hrs Surf.Area= 64 sf Storage= 227 cf

Plug-Flow detention time= 192.5 min calculated for 531 cf (73% of inflow) Center-of-Mass det. time= 103.8 min (861.7 - 757.8)

| Volume | Invert | Avail.Stora | ge Storage Description |
|--------|-----------|-------------|---|
| #1 | 5.20' | 38 | B cf 9.00'D x 6.00'H Vertical Cone/Cylinder |
| | | | 382 cf Overall - 286 cf Embedded = 95 cf x 40.0% Voids |
| #2 | 6.70' | 226 | S cf 8.00'D x 4.50'H Vertical Cone/Cylinder Inside #1 |
| | | | 286 cf Overall - 6.0" Wall Thickness = 226 cf |
| | | 264 | cf Total Available Storage |
| | | | |
| Device | Routing | Invert | Outlet Devices |
| #1 | Discarded | 5.20' | 0.170 in/hr Exfiltration over Surface area |
| #2 | Primary | 10.20' | 8.0" Round Culvert |
| | - | | L= 102.0' CPP, square edge headwall, Ke= 0.500 |
| | | | Inlet / Outlet Invert= 10.20' / 8.82' S= 0.0135 '/' Cc= 0.900 |
| | | 1 | n= 0.010, Flow Area= 0.35 sf |
| | | | |

Discarded OutFlow Max=0.00 cfs @ 2.70 hrs HW=5.26' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.21 cfs @ 12.10 hrs HW=10.45' TW=0.00' (Dynamic Tailwater) ←2=Culvert (Inlet Controls 0.21 cfs @ 1.71 fps)



Pond 1P: Drywell w/ Stone

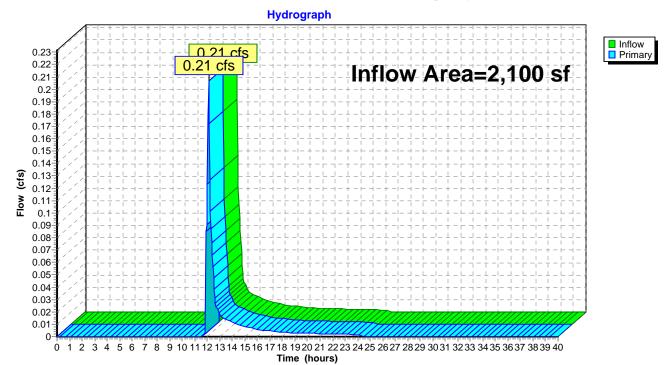
| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|------------------------|
| Proposed-PMB | Type III 24-h | r 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 1L: Flow to Municipal Drainage System

| Inflow Are | a = | 2,100 sf, 75.76% Impervious, Inflow Depth = 2.84" for 10 yr eve | ent |
|------------|-----|---|---------|
| Inflow | = | 0.21 cfs @ 12.10 hrs, Volume= 496 cf | |
| Primary | = | 0.21 cfs @ 12.10 hrs, Volume= 496 cf, Atten= 0%, Lag= | 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 1L: Flow to Municipal Drainage System

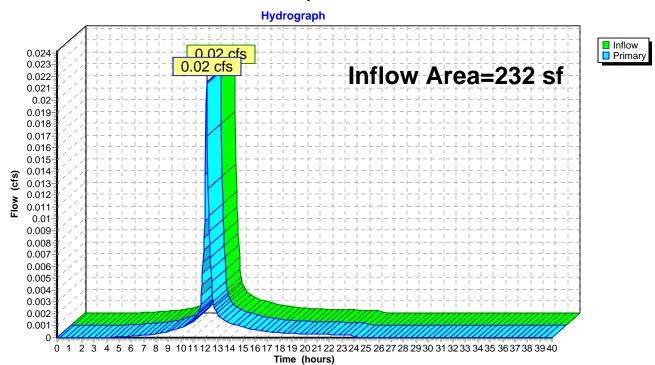


| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-------------------------|
| Proposed-PMB | Type III 24-h | nr 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 2L: Proposed Trenchdrain

| Inflow Are | a = | 232 sf, | 9.05% Impervious | Inflow Depth = 3.70" | for 10 yr event |
|------------|-----|--------------|--------------------|----------------------|---------------------|
| Inflow | = | 0.02 cfs @ 1 | 12.09 hrs, Volume= | 72 cf | |
| Primary | = | 0.02 cfs @ 1 | 12.09 hrs, Volume= | 72 cf, Atte | n= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 2L: Proposed Trenchdrain

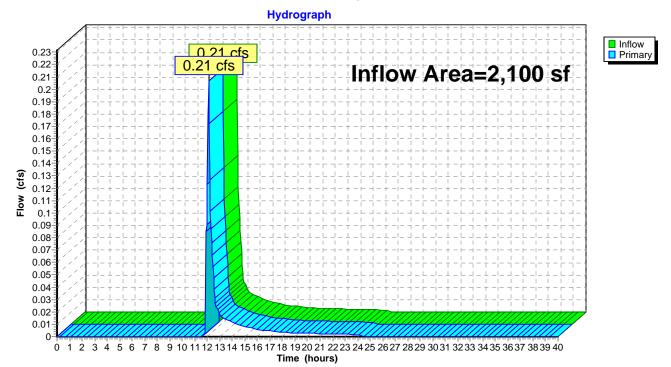
| | Proposed Condition Watershed Analysis - 93-95 Prescot | tt Street East Boston MA |
|------------------------|---|--------------------------|
| Proposed-PMB | Type III 24-I | hr 10 yr Rainfall=4.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n | 06611 © 2019 HydroCAD Software Solutions LLC | Page 20 |

Summary for Link 3L: Total runoff generated on Site

| Inflow Are | a = | 2,100 sf, | 75.76% Impervious | Inflow Depth = 2.84" | for 10 yr event |
|------------|-----|------------|--------------------|----------------------|----------------------|
| Inflow | = | 0.21 cfs @ | 12.10 hrs, Volume= | 496 cf | |
| Primary | = | 0.21 cfs @ | 12.10 hrs, Volume= | 496 cf, Atte | en= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 3L: Total runoff generated on Site

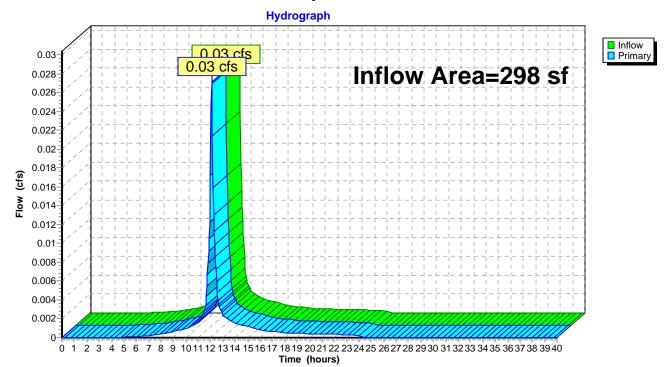


| | Proposed Condition Watershed Analysis - 93-95 Prescott Street East Boston MA | | |
|------------------------|--|-------------------------|--|
| Proposed-PMB | Type III 24-h | nr 10 yr Rainfall=4.60" | |
| Prepared by HP Inc. | | Printed 12/6/2019 | |
| HydroCAD® 10.00-25 s/n | 06611 © 2019 HydroCAD Software Solutions LLC | Page 21 | |

Summary for Link 4L: Proposed Trenchdrain

| Inflow Area = | 298 sf, | 0.00% Impervious, | Inflow Depth = 3.59" for 10 yr event |
|---------------|--------------|--------------------|--------------------------------------|
| Inflow = | 0.03 cfs @ 1 | 12.09 hrs, Volume= | 89 cf |
| Primary = | 0.03 cfs @ 1 | 12.09 hrs, Volume= | 89 cf, Atten= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 4L: Proposed Trenchdrain

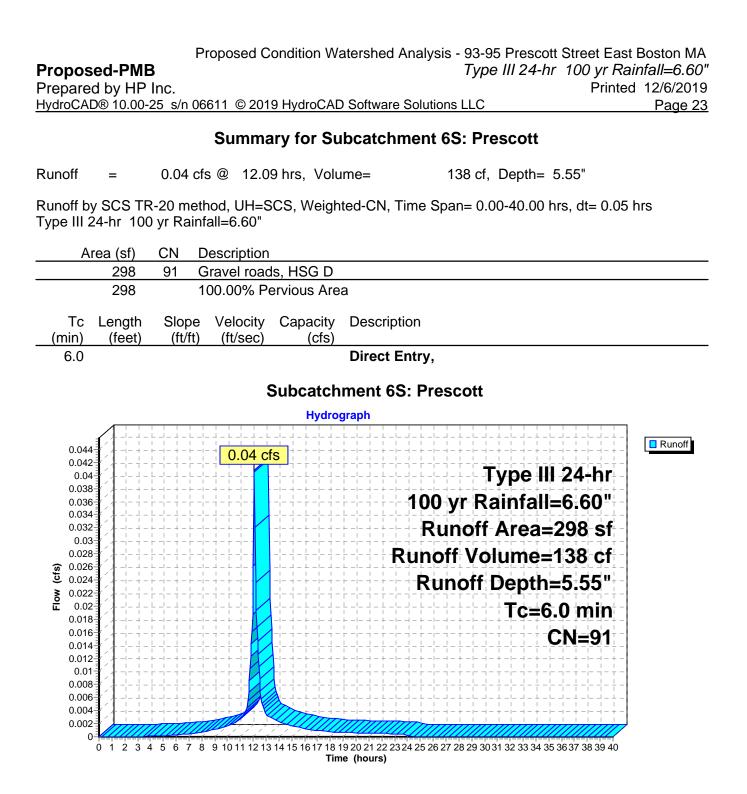
| P | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|---------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n 06 | 6611 © 2019 HydroCAD Software Solutions LLC | Page 22 |

Summary for Subcatchment 5S: Roof

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 832 cf, Depth= 6.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 100 yr Rainfall=6.60"

| ^ | <u>rea (sf)</u> 1,570 | | escription | d roofs, HS | SG D | |
|-----------------------------|--------------------------|--------------------------------|----------------------------|-------------------|---|-------|
| | 1,570 | 1 | 00.00% Im | pervious A | rea | |
| | 1,570 | 1 | 00.00% Ur | nconnected | 1 | |
| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description | |
| 6.0 | | | | | Direct Entry, | |
| | | | | Subcato | chment 5S: Roof | |
| | | | | Hydrog | graph | |
| 0.25- 0.24- | | | | | | unoff |
| 0.23- 0.22- | | | | | Type III 24-hr | |
| 0.21- 0.2- | ┋╱╁╶╎╴╎╴╎ | | | | 100 yr Rainfall=6.60" | |
| 0.19- 0.18- 0.17- | ╉╱╆╶╎╴┽╴╎ | | | | Runoff Area=1,570 sf | |
| 0.16- 0.15- (\$ 0.14- | ┋╱┟╶╎╴┵╴┟ | | | | Runoff Volume=832 cf | |
| 0.13- 0.12- | ╉╱┾╶╎╴┽╴┆ | | | | Runoff Depth=6.36" | |
| 0.1- | | | | | Tc=6.0 min | |
| 0.09- 0.08- 0.07- | | ''''- !! - + -!- ! ! ! ! | | | CN=98 | |
| 0.06 0.05 | ■´ / + - + | | | | | |
| 0.04- 0.03- | | | | | | |
| 0.02- 0.01- | = / | | | | | |
| 0- | 0 1 2 3 4 | 5678 | 9 10 11 12 13 ⁻ | | 9 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 e (hours) | |



| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/r | 06611 © 2019 HydroCAD Software Solutions LLC | Page 24 |

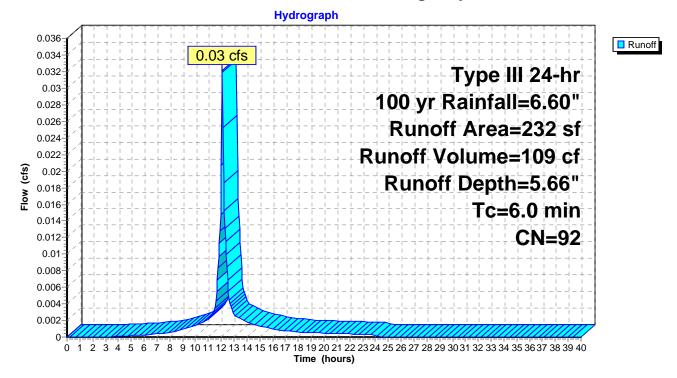
Summary for Subcatchment 7S: Passageway

Runoff = 0.03 cfs @ 12.09 hrs, Volume= 109 cf, Depth= 5.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs Type III 24-hr 100 yr Rainfall=6.60"

| A | rea (sf) | CN | Description | | |
|-------------|------------------|------------------|-------------|-------------------|---------------|
| | 211 | 91 | Gravel road | s, HSG D | |
| | 21 | 98 | Paved park | ing, HSG D | |
| | 232 | 92 | Weighted A | verage | |
| | 211 | | 90.95% Per | vious Area | |
| | 21 | | 9.05% Impe | ervious Area | а |
| Tc (min) | Length (feet) | Slope (ft/ft) | | Capacity (cfs) | Description |
| 6.0 | | | | | Direct Entry, |

Subcatchment 7S: Passageway



| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n | 06611 © 2019 HydroCAD Software Solutions LLC | Page 25 |

Summary for Pond 1P: Drywell w/ Stone

| Inflow Area = | 2,100 sf, 75.76% Impervious, | Inflow Depth = 6.17" for 100 yr event |
|---------------|-------------------------------|---------------------------------------|
| Inflow = | 0.30 cfs @ 12.09 hrs, Volume= | 1,079 cf |
| Outflow = | 0.30 cfs @ 12.10 hrs, Volume= | 879 cf, Atten= 0%, Lag= 0.6 min |
| Discarded = | 0.00 cfs @ 1.80 hrs, Volume= | 35 cf |
| Primary = | 0.30 cfs @ 12.10 hrs, Volume= | 844 cf |

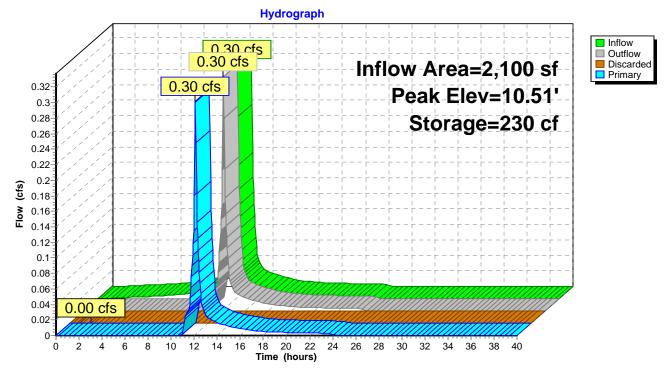
Routing by Dyn-Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs / 3 Peak Elev= 10.51' @ 12.10 hrs Surf.Area= 64 sf Storage= 230 cf

Plug-Flow detention time= 155.4 min calculated for 879 cf (81% of inflow) Center-of-Mass det. time= 81.3 min (832.6 - 751.3)

| Volume | Invert | Avail.Stora | age | Storage Description |
|--------|-----------|-------------|-------|--|
| #1 | 5.20' | 38 | 8 cf | 9.00'D x 6.00'H Vertical Cone/Cylinder |
| #2 | 6.70' | 226 | 6 cf | 382 cf Overall - 286 cf Embedded = 95 cf x 40.0% Voids 8.00'D x 4.50'H Vertical Cone/Cylinder Inside #1 286 cf Overall - 6.0" Wall Thickness = 226 cf |
| | | 264 | 4 cf | Total Available Storage |
| Device | Routing | Invert | Outle | et Devices |
| #1 | Discarded | 5.20' | 0.17 | 0 in/hr Exfiltration over Surface area |
| #2 | Primary | 10.20' | 8.0" | Round Culvert |
| | | | L= 1 | 02.0' CPP, square edge headwall, Ke= 0.500 |
| | | | Inlet | / Outlet Invert= 10.20' / 8.82' S= 0.0135 '/' Cc= 0.900 |
| | | | n= 0 | .010, Flow Area= 0.35 sf |
| | | | | |

Discarded OutFlow Max=0.00 cfs @ 1.80 hrs HW=5.26' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.30 cfs @ 12.10 hrs HW=10.51' TW=0.00' (Dynamic Tailwater) ←2=Culvert (Inlet Controls 0.30 cfs @ 1.89 fps)



Pond 1P: Drywell w/ Stone

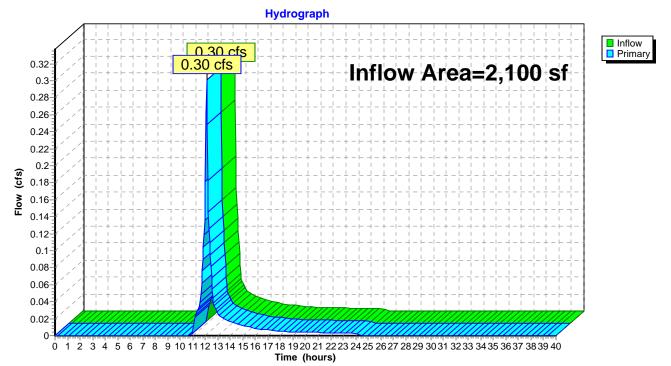
| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 1L: Flow to Municipal Drainage System

| Inflow Are | a = | 2,100 sf, 75.76% Impervious, Inflow Depth = 4.82" for 100 yr e | vent |
|------------|-----|--|---------|
| Inflow | = | 0.30 cfs @ 12.10 hrs, Volume= 844 cf | |
| Primary | = | 0.30 cfs @ 12.10 hrs, Volume= 844 cf, Atten= 0%, Lag= | 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link 1L: Flow to Municipal Drainage System

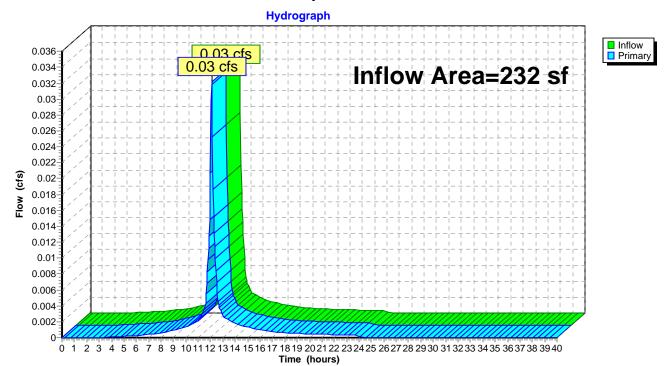


| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 2L: Proposed Trenchdrain

| Inflow Are | a = | 232 sf, | 9.05% Impervious, | Inflow Depth = 5.66" for 100 yr event |
|------------|-----|--------------|-------------------|---------------------------------------|
| Inflow | = | 0.03 cfs @ 1 | 2.09 hrs, Volume= | 109 cf |
| Primary | = | 0.03 cfs @ 1 | 2.09 hrs, Volume= | 109 cf, Atten= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 2L: Proposed Trenchdrain

| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
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Summary for Link 3L: Total runoff generated on Site

| Inflow Are | a = | 2,100 sf, 75.76% Impervious, Inflow Depth = 4.82" for 1 | 00 yr event |
|------------|-----|---|--------------|
| Inflow | = | 0.30 cfs @ 12.10 hrs, Volume= 844 cf | |
| Primary | = | 0.30 cfs @ 12.10 hrs, Volume= 844 cf, Atten= 0%, | Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

0.02 0-

Hydrograph Inflow Primary 0.30 cfs 0.30 cfs 0.32 Inflow Area=2,100 sf 0.3 0.28-0.26 0.24 0.22 0.2 (\$5) 0.18-0.16-0.14-0.14 0.12 0.1 0.08 0.06 0.04

Link 3L: Total runoff generated on Site

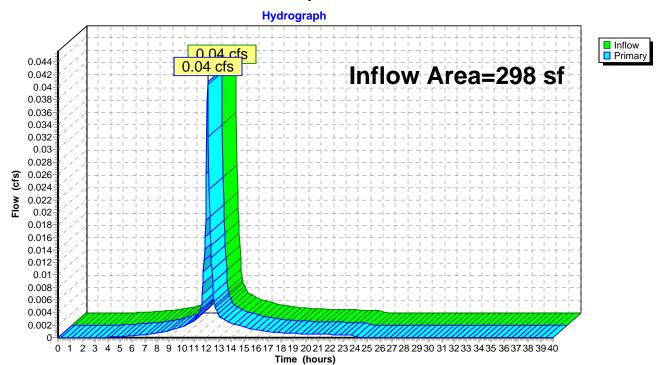
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 Time (hours)

| | Proposed Condition Watershed Analysis - 93-95 Prescott | Street East Boston MA |
|------------------------|--|-----------------------|
| Proposed-PMB | Type III 24-hr | 100 yr Rainfall=6.60" |
| Prepared by HP Inc. | | Printed 12/6/2019 |
| HydroCAD® 10.00-25 s/n | 06611 © 2019 HydroCAD Software Solutions LLC | Page 30 |

Summary for Link 4L: Proposed Trenchdrain

| Inflow Are | a = | 298 sf, | 0.00% Impervious, | Inflow Depth = 5.55" for 100 yr event |
|------------|-----|--------------|--------------------|---------------------------------------|
| Inflow | = | 0.04 cfs @ 1 | 12.09 hrs, Volume= | 138 cf |
| Primary | = | 0.04 cfs @ 1 | 12.09 hrs, Volume= | 138 cf, Atten= 0%, Lag= 0.0 min |

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs



Link 4L: Proposed Trenchdrain

2 | MassDEP Stormwater Checklist



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands Program Checklist for Stormwater Report

A. Introduction

A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.



² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

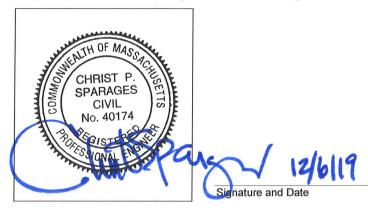
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

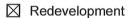
Registered Professional Engineer Block and Signature



Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

New development



Mix of New Development and Redevelopment



| LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project: |
|---|
| No disturbance to any Wetland Resource Areas |
| Site Design Practices (e.g. clustered development, reduced frontage setbacks) |
| Reduced Impervious Area (Redevelopment Only) |
| Minimizing disturbance to existing trees and shrubs |
| LID Site Design Credit Requested: |
| Credit 1 |
| Credit 2 |
| Credit 3 |
| Use of "country drainage" versus curb and gutter conveyance and pipe |
| Bioretention Cells (includes Rain Gardens) |
| Constructed Stormwater Wetlands (includes Gravel Wetlands designs) |
| Treebox Filter |
| Water Quality Swale |
| Grass Channel |
| Green Roof |
| Other (describe): |
| |

Standard 1: No New Untreated Discharges

- \boxtimes No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Standard 2: Peak Rate Attenuation

- Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- Calculations provided to show that post-development peak discharge rates do not exceed predevelopment rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that

post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

| Soil Analysis | provided. |
|---------------|-----------|
|---------------|-----------|

| | Required | Recharge | Volume | calculation | provided. |
|--|----------|----------|--------|-------------|-----------|
|--|----------|----------|--------|-------------|-----------|

- Required Recharge volume reduced through use of the LID site Design Credits.
- Sizing the infiltration, BMPs is based on the following method: Check the method used.

| | 🛛 Static | Simple Dynamic | Dynamic Field |
|--|----------|----------------|---------------|
|--|----------|----------------|---------------|

- Runoff from all impervious areas at the site discharging to the infiltration BMP.
- Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - Site is comprised solely of C and D soils and/or bedrock at the land surface
 - M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - Solid Waste Landfill pursuant to 310 CMR 19.000
 - Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.
- The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.
- ¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
- · Provisions for storing materials and waste products inside or under cover;
- Vehicle washing controls;
- Requirements for routine inspections and maintenance of stormwater BMPs;
- Spill prevention and response plans;
- Provisions for maintenance of lawns, gardens, and other landscaped areas;
- Requirements for storage and use of fertilizers, herbicides, and pesticides;
- Pet waste management provisions;
- Provisions for operation and management of septic systems;
- Provisions for solid waste management;
- Snow disposal and plowing plans relative to Wetland Resource Areas;
- Winter Road Salt and/or Sand Use and Storage restrictions;
- Street sweeping schedules;
- Provisions for prevention of illicit discharges to the stormwater management system;
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan; List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
- Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one-inch rule for calculating the water quality volume are included, and discharge:
 - is within the Zone II or Interim Wellhead Protection Area
 - is near or to other critical areas
 - is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - involves runoff from land uses with higher potential pollutant loads.
- The Required Water Quality Volume is reduced through use of the LID site Design Credits.
- Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.
- The BMP is sized (and calculations provided) based on:
 - The ½" or <u>1"</u> Water Quality Volume or
 - The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- ☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided. (see Massachusetts Stormwater Handbook, Volume 2, Chapter 2, page 86)



Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- The NPDES Multi-Sector General Permit does *not* cover the land use.
- LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long-term Pollution Prevention Plan.
- All exposure has been eliminated.
- All exposure has *not* been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- Critical areas and BMPs are identified in the Stormwater Report.

<u>Standard 7: Redevelopments and Other Projects Subject to the Standards only to the</u> maximum extent practicable

- The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - Limited Project
 - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - Bike Path and/or Foot Path
 - Redevelopment Project
 - Redevelopment portion of mix of new and redevelopment.
- Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- ☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment



and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.
- ☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- The project is *not* covered by a NPDES Construction General Permit.
- The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - Name of the stormwater management system owners;
 - Party responsible for operation and maintenance;
 - Schedule for implementation of routine and non-routine maintenance tasks;
 - Plan showing the location of all stormwater BMPs maintenance access areas; (See Site Plan Set)
 - Description and delineation of public safety features;



Estimated operation and maintenance budget; and

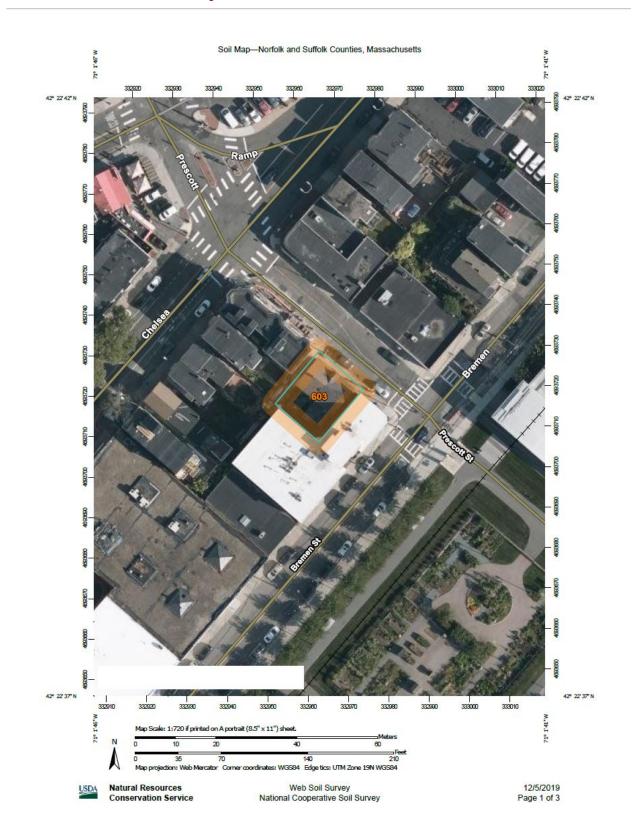
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- Operation and Maintenance Log Form.
- The responsible party is *not* the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs; (See Appendix P)
 - A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

- The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- An Illicit Discharge Compliance Statement is attached; (See section 1.7 of the Mitigative Drainage Analysis)
- NO Illicit Discharge Compliance Statement is attached but will be submitted *prior to* the discharge of any stormwater to post-construction BMPs.

3 | NRCS Web Soil Survey



Williams & Sparages | Engineers • Planners • Surveyors 189 North Main Street Suite 101 | Middleton, MA

| Area of Interest (AOI) Conserved in Area of In Soils Soil Map I Soil Map I Soil Map I | | | | MAP INFORMATION |
|---|------------------------|-----------------------|---|--|
| | t (AOI) | av | Spoil Area | The soil surveys that comprise your AOI were mapped at |
| | Area of Interest (AOI) | 0 | Story Spot | 1:25,000. |
| | | 8 | Very Story Spot | Warning: Soil Map may not be valid at this scale. |
| | Soli Map Unit Polygons | 1 | Wet Spot | Enlargement of maps beyond the scale of mapping can cause |
| | | | Other | imsunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of |
| | Soil Map Unit Points | 1 | Special Line Features | contrasting soils that could have been shown at a more detailed |
| Special Point Features | It Features | C | | scale. |
| و 80 | Blowout | Water Features | tures | Discontrols on the her and an analy men short for mon |
| Bor | Borrow Pit | 2 | Streams and Canals | Flease rely on the ball scale on each map sheet for map measurements. |
| × Ola | Clay Spot | Iransportation Rai | ation Rails | Source of Map: Natural Resources Conservation Service |
| Old | Closed Depression | | Interstate Highways | Web Soil Survey URL: Coordinate System: Web Mercator (EDSG-3857) |
| No. | Gravel Pit | | IIS Bourbes | Ware from the Web Soil Surviviare based on the Web Marrator |
| ÷. | Gravelly Spot | | Maior Roads | projection, which preserves direction and shape but distorts |
| C Lar | Landfill | 1 | Local Roads | distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more |
| A Lav | Lava Flow | Background | | accurate calculations of distance or area are required. |
| - Ma | Marsh or swamp | | Aerial Photography | This product is generated from the USDA-NRCS certified data as of the version date(s) listed below |
| Air Mir | Mine or Quarry | | | Soil Suntav Aras: Norfolk and Suffolk Counties Massachusette |
| Mis | Miscellaneous Water | | | |
| O | Perennial Water | | | Soil map units are labeled (as space allows) for map scales |
| × Ro | Rock Outcrop | | | 1:50,000 or larger. |
| + Sal | Saline Spot | | | Date(s) aerial images were photographed: Sep 11, 2019—Oct 5, 2019 |
| ser Sai | Sandy Spot | | | 2019 The otherhote or other base was an which the soil lines were |
| Ser Ser | Severely Eroded Spot | | | compiled and digitized probably differs from the background |
| Sin | Sinkhole | | | imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. |
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| Natural Resources Conservation Service | | | Web Soil Survey National Cooperative Soil Survey | 12/5/2019 Page 2 of 3 |

Soil Map-Norfolk and Suffolk Counties, Massachusetts

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Page | 21

Soil Map-Norfolk and Suffolk Counties, Massachusetts

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|--|--------------|----------------|
| 603 | Urban land, wet substratum, 0 to 3 percent slopes | 0.1 | 100.0% |
| Totals for Area of Interest | 1 | 0.1 | 100.0% |



Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey 12/5/2019 Page 3 of 3



| SHEET DESIGNATION | AN INDEX | DRAWING | SHEET | |
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| DEMOLITION PLAN | | C-3 | 3 | |
| SITE PLAN | | C-4 | 4 | |
| SITE/CONSTRUCTION DET | | C-5 | 5 | |
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