dcr

Massachusetts

Notice of Intent

Morrissey Boulevard reclaim and repave
Morrissey Boulevard, Boston, MA

May 5, 2021

Checklist for Filing a Notice of Intent with Boston Conservation Commission

In order for the Boston Conservation Commission to effectively process your Notice of Intent, BCC requests that you complete the checklist below and include it with your submission. If you should need assistance please contact Commission Staff: 617-635-3850 (cc@boston.gov).

Please Submit the Following to the Conservation Commission:

- [x] Two copies (a signed original and 1 copy) of a completed Notice of Intent (WPA Form 3)
- [x] Two copies (a signed original and 1 copy) of a completed Boston Notice of Intent (Local Form)
- [x] Two copies of plans (reduced to 11" X 17") in their final form with engineer's stamp affixed supporting calculations and other documentation necessary to completely describe the proposed work and mitigating measures. Plans must include existing conditions, the proposed project, erosion controls and mitigation measures, grading and spot elevations and all wetland resource areas and associated buffer zones. Some projects may require both an aerial view of the plans along with a profile view of plans depending on the scope of work.
- [x] Two copies of an 8 ½" x 11" section of the USGS quadrangle map of the area, containing sufficient information for the Conservation Commission and the Department to locate the site of the work.
- [x] (If applicable) Two copies the Federal Emergency Management Agency Flood Insurance Rate Map for the project site. FEMA Flood Maps: https://msc.fema.gov/portal.
- [ ] N/A Two copies of the determination regarding the Natural Heritage and Endangered Species Program: Review Section C. Other Applicable Standards and Requirements of the Notice of Intent, page 4 of 8, pertaining to wildlife habitat. The Conservation Commission and the Natural Heritage & Endangered Species Program have the maps necessary to make this determination.
- [x] (If applicable) Two hard copies of a Stormwater Report to document compliance with the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q), including associated drainage calculations for rooftops, parking lots, driveways, etc., for the required design storm events.
- [x] (If applicable) A narrative detailing best management practices for stormwater management as set forth in the Stormwater Management Standards of the Massachusetts Department of Environmental Protection and any separate standards and guidelines prepared by the City and the Boston Water and Sewer Commission.
- [x] (If applicable) Two hard copies of the Checklist for Stormwater Report
- [x] Details of the stormwater management system, including: catch basins, oil separating tanks, detention basins, outfalls, sewer connections, etc.
- [x] Any photographs related to the project representing the wetland resource areas.
- [x] Two copies of a detailed project narrative describing the following: an overview of the entire project, the work proposed within wetland resource areas and/or buffer zones; how the performance standards specific to the wetland resource areas will be met (listing out each performance standard); a consideration of the effect that projected sea level rise, changes in storm intensity and frequency, and other consequences of climate change may have on the resource areas and proposed activities; construction equipment and material involved; and measures to protect wetland resource areas and mitigate impacts. The applicant shall also include narrative on how they plan to integrate climate change and adaptation planning considerations into their project to promote climate resilience to protect and promote Resource Area Values and functions into the future.
- [x] Two copies of an Abutters List, Affidavit of Service and Abutter Notification, filed concurrently with the Notice of Intent. Abutter notices shall be sent in both English and the second most commonly spoken language(s) in the neighborhood(s) where the project is proposed. Notices shall also include Babel notice cards for additional translation and language access services. All abutters within 300' of the project

Checklist for Filing a Notice of Intent with Boston Conservation Commission

property line must be notified including those in a neighboring municipality. In such an instance, a copy of the filing must also be sent to the local Conservation Commission of the neighboring municipality. EXCEPTION: When work is in land under water bodies and waterways or on a tract of land greater than 50 acres, written notification must only be given to abutters within 300 feet of the "project site."

☐ N/A Two copies of the BPDA Climate Resiliency Checklist (for new buildings). This can be completed online at http://www.bostonplans.org/planning/planning-initiatives/article-37-green-building-guidelines. Please print the pdf that you will receive via email after completion and include it in your submission.

☒ **Electronic copies.** Documents may be submitted via email, or via an email link to downloadable documents.

To minimize the use of non-recyclable materials ***please do not include vinyl or plastic binders, bindings, folders or covers with the filing.*** Staples and binder clips are good choices.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Intent
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1276869
City/Town:BOSTON

A.General Information

1. Project Location:

a. Street Address	MORRISSEY BOULEVARD		
b. City/Town	BOSTON	c. Zip Code	02125
d. Latitude	42.31777N	e. Longitude	71.04941W
f. Map/Plat #	0	g.Parcel/Lot #	1302364002, 1302364060, 1600220000, 1600251000

2. Applicant:

☐ Individual ☑ Organization

a. First Name	JASON		b.Last Name	SANTOS	
c. Organization	DEPT. OF CONSERVATION & RECREATION				
d. Mailing Address	164 POND STREET				
e. City/Town	STONEHAM	f. State	MA	g. Zip Code	02180
h. Phone Number	508-414-2924	i. Fax		j. Email	jason.santos@mass.gov

3.Property Owner:

☐ more than one owner

a. First Name	PRISCILLA		b. Last Name	GEIGIS	
c. Organization	DEPUTY COMMISSIONER, DCR				
d. Mailing Address	251 CAUSEWAY STREET, STE. 600				
e. City/Town	BOSTON	f.State	MA	g. Zip Code	02114
h. Phone Number		i. Fax		j.Email	priscilla.geigs@mass.gov

4.Representative:

a. First Name	STEFANIE		b. Last Name	FARRINGTON	
c. Organization	DEPT. OF CONSERVATION & RECREATION				
d. Mailing Address	251 CAUSEWAY STREET, STE. 600				
e. City/Town	BOSTON	f. State	MA	g. Zip Code	02114
h.Phone Number	207-653-0757	i.Fax		j.Email	stefanie.farrington@mass.gov

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid	500.00	b.State Fee Paid	237.50	c.City/Town Fee Paid	262.50

6.General Project Description:

IN-KIND RECLAIM AND REPAVE OF MORRISSEY BOULEVARD, AS WELL AS CURB AND SIDEWALK REPAIRS, WITHIN LSCSF AND 100-FT BUFFER ZONE. (PLEASE SEE ATTACHED NARRATIVE.)

7a.Project Type:

1. ☐ Single Family Home	2. ☐ Residential Subdivision
3. ☐ Limited Project Driveway Crossing	4. ☐ Commercial/Industrial
5. ☐ Dock/Pier	6. ☐ Utilities
7. ☐ Coastal Engineering Structure	8. ☐ Agriculture (eg., cranberries, forestry)
9. ☑ Transportation	10. ☐ Other

7b.Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310

CMR 10.53 (inland)?

1. ☐ Yes ☑ No If yes, describe which limited project applies to this project:
2. Limited Project

8.Property recorded at the Registry of Deeds for:

a.County:	b.Certificate:	c.Book:	d.Page:
SUFFOLK			

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

1.Buffer Zone & Resource Area Impacts (temporary & permanent):

☐ This is a Buffer Zone only project - 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)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a.☐ Bank	1. linear feet	2. linear feet
b.☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c.☐ Land under Waterbodies and Waterways	1. Square feet	2. square feet
	3. cubic yards dredged	
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 any)

2. Width of Riverfront Area (check one)

☐ 25 ft. - Designated Densely Developed Areas only
☐ 100 ft. - New agricultural projects only
☐ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project

square feet

4. Proposed Alteration of the Riverfront Area:

a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☐ Yes ☐ No

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under	Land under the ocean below,
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beaches	Indicate size under Coastal Beaches and/or Coatstal Dunes, below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. ☐ Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. ☑ Land Subject to Coastal Storm Flowage	474,475 1. square feet	

4.Restoration/Enhancement

☐ Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh

5.Projects Involves Stream Crossings

☐ Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

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 of Endangered Species program (NHESP)?

a. ☐ Yes ☑ No

If yes, include proof of mailing or hand delivery of NOI to:
Natural Heritage and Endangered Species
Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

b. Date of map:FROM MAP VIEWER

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)....

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

1. ☐ Percentage/acreage of property to be altered:

(a) within Wetland Resource Area — percentage/acreage

(b) outside Resource Area — percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

3. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetland 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

c. ☐ MESA filing fee (fee information available at: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html)
Make check payable to "Natural Heritage & Endangered Species Fund" 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

d. OR Check One of the following

1. ☐ Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14; 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 Number

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.

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?
a. ☐ Not applicable - project is in inland resource area only
b. ☐ Yes ☑ No

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

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 S. Rodney French Blvd
New Bedford, MA 02744

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

If yes, it 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.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. ☐ Yes ☑ No

If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
a. ☐ Yes ☑ No

5. 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

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
a. ☑ Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol.2, Chapter 3)
2. ☑ A portion of the site constitutes redevelopment
3. ☐ Proprietary BMPs are included in the Stormwater Management System

b. ☐ No, Explain why the project is exempt:
1. ☐ Single Family Home

2. ☐ Emergency Road Repair

3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

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

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

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

a. Plan Title:	b. Plan Prepared By:	c. Plan Signed/Stamped By:	c. Revised Final Date:	e. Scale:
MORRISSEY BOULEVARD RECLAIM AND REPAVE			5/3/21	

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

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

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

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.

Jason A Santos 1. Signature of Applicant	5/04/21 2. Date
Bill Major 3. Signature of Property Owner(if different)	5-4-21 4. Date
Stefanie Farrington 5. Signature of Representative (if any)	5/04/21 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 Section C, Items 1-3, 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

WPA Form 3 - Notice of Wetland FeeTransmittal Form

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

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1276869
City/Town:BOSTON

A. Applicant Information

1. Applicant:

a. First Name	JASON	b.Last Name	SANTOS		
c. Organization	DEPT. OF CONSERVATION & RECREATION				
d. Mailing Address	164 POND STREET				
e. City/Town	STONEHAM	f. State	MA	g. Zip Code	02180
h. Phone Number	5084142924	i. Fax		j. Email	jason.santos@mass.gov

2.Property Owner:(if different)

a. First Name	PRISCILLA	b. Last Name	GEIGIS		
c. Organization	DEPUTY COMMISSIONER, DCR				
d. Mailing Address	251 CAUSEWAY STREET, STE. 600				
e. City/Town	BOSTON	f.State	MA	g. Zip Code	02114
h. Phone Number		i. Fax		j.Email	priscilla.geigs@mass.gov

3. Project Location:

a. Street Address	MORRISSEY BOULEVARD	b. City/Town	BOSTON

Are you exempted from Fee? ☐

Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than $100

B. Fees

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total
J.) ANY OTHER ACTIVITY NOT IN CATEGORY 1,3,4,5 OR 6;	1	500.00		500.00

City/Town share of filling fee	State share of filing fee	Total Project Fee
$262.50	$237.50	$500.00

City of Boston Environment

NOTICE OF INTENT APPLICATION FORM
Boston Wetlands Ordinance
City of Boston Code, Ordinances, Chapter 7-1.4

Boston File Number

MassDEP File Number

A. GENERAL INFORMATION

1. Project Location

Morrissey Boulevard	Boston	02125
a. Street Address	b. City/Town	c. Zip Code
	1302364002, 1302364060, 1600220000, 1600251000	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant

Jason	Santos	DCR
a. First Name	b. Last Name	c. Company

164 Pond Street
d. Mailing Address

Stoneham	MA	02180
e. City/Town	f. State	g. Zip Code

508-414-2924		jason.santos@mass.gov
h. Phone Number	i. Fax Number	j. Email address

3. Property Owner

Priscilla	Geigis	Deputy Commissioner, DCR
a. First Name	b. Last Name	c. Company

251 Causeway Street, Ste. 600
d. Mailing Address

Boston	MA	02114
e. City/Town	f. State	g. Zip Code

		priscilla.geigis@mass.gov
h. Phone Number	i. Fax Number	j. Email address

❑ Check if more than one owner

(If there is more than one property owner, please attach a list of these property owners to this form.)

4. Representative (if any)

Stefanie	Farrington	DCR
a. First Name	b. Last Name	c. Company

251 Causeway Street, Ste. 600
d. Mailing Address

Boston	MA	02114
e. City/Town	f. State	g. Zip Code

207-653-0757		stefanie.farrington@mass.gov
h. Phone Number	i. Fax Number	j. Email address

5. Is any portion of the proposed project jurisdictional under the Massachusetts Wetlands Protection Act M.G.L. c. 131 §40?

☒ Yes ☐ No

If yes, please file the WPA Form 3 - Notice of Intent with this form

6. General Information

In-kind reclaim and repave of Morrissey Boulevard, as well as curb and sidewalk repairs, within LSCSF and 100-ft buffer zone. (Please see attached narrative.)

7. Project Type Checklist

a. ☐ Single Family Home
b. ☐ Residential Subdivision
c. ☐ Limited Project Driveway Crossing
d. ☐ Commercial/Industrial
e. ☐ Dock/Pier
f. ☐ Utilities
g. ☐ Coastal Engineering Structure
h. ☐ Agriculture – cranberries, forestry
i. ☒ Transportation
j. ☐ Other

8. Property recorded at the Registry of Deeds

a. County

b. Page Number

c. Book

d. Certificate # (if registered land)

9. Total Fee Paid

$500	$237.50	$262.50
a. Total Fee Paid	b. State Fee Paid	c. City Fee Paid

B. BUFFER ZONE & RESOURCE AREA IMPACTS

Buffer Zone Only - Is the project located only in the Buffer Zone of a resource area protected by the Boston Wetlands Ordinance?

☐ Yes ☒ No

1. Coastal Resource Areas

Resource Area	Resource Area Size	Proposed Alteration*	Proposed Migitation
❑ *Coastal Flood Resilience Zone*	*Square feet*	*Square feet*	*Square feet*
❑ *25-foot Waterfront Area*	*Square feet*	*Square feet*	*Square feet*
☒ *100-foot Salt Marsh Area*	238,365 *Square feet*	253 *Square feet*	0 *Square feet*
❑ *Riverfront Area*	*Square feet*	*Square feet*	*Square feet*

2. Inland Resource Areas

Resource Area	Resource Area Size	Proposed Alteration*	Proposed Migitation
❑ *Inland Flood Resilience Zone*	*Square feet*	*Square feet*	*Square feet*
❑ *Isolated Wetlands*	*Square feet*	*Square feet*	*Square feet*
❑ *Vernal Pool*	*Square feet*	*Square feet*	*Square feet*
❑ *Vernal Pool Habitat (vernal pool + 100 ft. upland area)*	*Square feet*	*Square feet*	*Square feet*
❑ *25-foot Waterfront Area*	*Square feet*	*Square feet*	*Square feet*
❑ *Riverfront Area*	*Square feet*	*Square feet*	*Square feet*

C. OTHER APPLICABLE STANDARDS & REQUIREMENTS

1. What other permits, variances, or approvals are required for the proposed activity described herein and what is the status of such permits, variances, or approvals?

N/a

2. 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 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://www.mass.gov/dfwele/dfw/nhesp/nhregmap.htm.

❑ Yes ☒ No

If *yes*, the project is subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18).

A. Submit Supplemental Information for Endangered Species Review

☐ Percentage/acreage of property to be altered:

(1) within wetland Resource Area _____ percentage/acreage

(2) outside Resource Area _____ percentage/acreage

☐ Assessor's Map or right-of-way plan of site

3. Is any portion of the proposed project within an Area of Critical Environmental Concern?

❑ Yes ☒ No

If yes, provide the name of the ACEC: _____

4. Is the proposed project subject to provisions of the Massachusetts Stormwater Management Standards?

☒ *Yes. Attach a copy of the Stormwater Checklist & Stormwater Report as required.*
- ❑ *Applying for a Low Impact Development (LID) site design credits*
- ☒ *A portion of the site constitutes redevelopment*
- ❑ *Proprietary BMPs are included in the Stormwater Management System*

❑ *No. Check below & include a narrative as to why the project is exempt*
- ❑ *Single-family house*
- ❑ *Emergency road repair*
- ❑ *Small Residential Subdivision (less than or equal to 4 single family houses or less than or equal to 4 units in a multifamily housing projects) with no discharge to Critical Areas*

5. Is the proposed project subject to Boston Water and Sewer Commission Review?

☒ Yes ❑ No

D. 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 Protection Ordinance.

Jason A Santos — Signature of Applicant — 05/04/21 — Date

[signature] — Signature of Property Owner (if different) — 5-4-21 — Date

Stefanie Farrington — Signature of Representative (if any) — 05/04/21 — Date

Project Narrative

The Massachusetts Department of Conservation and Recreation (DCR) is proposing to perform necessary ongoing pavement maintenance and repairs of Morrissey Boulevard in Boston, MA. The purpose of this project is to support public safety and facilitate vehicular transportation. Portions of the project site are located within land subject to coastal storm flowage and the 100-ft buffer zone to salt marsh. However, there will be no increase to impervious surface area nor new impacts to the resource areas as a result of the proposed reclaim and repave project.

Site Description

The project site consists of portions Morrissey Boulevard, an existing asphalt roadway, as well as adjacent sidewalks and existing curb. Morrissey Boulevard has been a paved road since at least 1955, predating the Rivers Protection Act and the Wetlands Protection Act. The entire project site is confined by curb, and there are existing catch basins on the roadway. The existing median islands are planted with trees and grasses. The project sites are depicted in the "Key Plan" as well as in the resurfacing plans ("RP-01" – "RP-12").

Project Location	**Approx. area (ft^2)**
Morrissey Boulevard from Kosciuszao Circle to Biancoulli Boulevard (southbound and northbound lanes) and off-ramp from Morrissey Boulevard northbound to Mount Vernon Street	281,000
Morrissey Boulevard from Freeport Street to CVS Pharmacy (715 Morrissey Blvd.*; southbound lane) and service road from start (715 Morrissey Blvd.*) to end (800 Morrissey Blvd.*)	80,075
Morrissey Boulevard from Freeport Street to Tenean Street (northbound lane)	113,400
Total	474,475

*Addresses are approximate and included for orientation purposes only.

Project Description

Site Preparation

The existing surface of the area to be paved will be milled out using a cold-planing machine with a smaller ride-on grinding machine. This process involves removing approximately 2 inches of paved surface in order to prepare the roadway for paving and remove any deficiencies on the roadway itself. Materials and vehicles will be stored offsite. Milling and structure debris will be disposed of offsite. Existing drainage structures will be re-aligned to meet the finished paving grade.

Paving

A paving machine is used to place the asphalt on the prepared roadway and two hydro-static rollers are used for compaction. Asphalt will be placed at a depth of 2-4" and a final grade consistent with the roadway condition. A thermoplastic kettle truck and a "mini mac" (a small vehicle) are used to place thermoplastic lines (road striping). Paving vehicles are removed directly after the paving operation. Cold-planing vehicles arrive the day of paving or are stored onsite before construction. The thermoplastic kettle truck and mini mac are driven to and from the construction site. No vehicles will be stored within the resource area or buffer zone, and vehicles will be fueled off-site.

Best Management Practices and Impact Minimization

The entire project site is confined by existing curb; accordingly, no sedimentation/erosion controls will be placed along the limits of work. Controls may be added as necessary as determined by Boston Conservation staff following a join site visit with DCR. Catch basin protection devices will be installed for any existing catch basins within the project site. These devices will be removed upon completion of the project.

Resource Areas

As previously noted, project activities will occur within land subject to coastal storm flowage (LSCSF) and the 100-foot buffer zone to salt marsh. While there are additional coastal wetland resource areas in the proximity of the project site, no work or impacts will occur in these areas or their buffer zones and thus they are not included within this narrative. Resource areas and their buffer zones are depicted in Figures 1 and 2.

Land Subject to Coastal Storm Flowage (LSCSF)

Existing Condition

The majority of the project site is located within LSCSF. All of these areas are categorized by FEMA as "AE" flood zones. Stormwater management in these areas consist of catch basins located within the roadway which is confined by curb on all sides. Between the Beades Bridge and UMASS there are 6 outfalls; each outfall takes water from 5-6 catch basins. From UMASS to Kosciuszao Circle all drains go to either a Boston Water and Sewer 12' diameter interceptor pipe or to a DCR oil/water separator. South of Beades Bridge, 90% of drainage flows out through a 60" outfall.

Proposed Work

Only the existing asphalt roadway, curb, and sidewalks will be impacted in the course of the project. No material staging nor vehicle storage will occur within LSCSF. There are no proposed changes to stormwater management; more information about drainage at the project site is included within the stormwater report and checklist.

100-foot Buffer Zone

A small portion of the project site (253 square feet) is located within the 100-foot buffer zone of the adjacent salt marsh. However, the proposed activity is consistent with the minor activities described in 310 CMR 10.02(2)(b)2.p: " Pavement repair, resurfacing, and reclamation of existing roadways within the right-of-way configuration provided that the roadway and shoulders are not widened, no staging or stockpiling of materials, all disturbed road shoulders are stabilized within 72 hours of completion of the resurfacing or reclamation, and no work on the drainage system is performed, other than adjustments and/or repairs to respective structures within the roadway…". All proposed pavement repair, resurfacing, and reclamation will occur in-kind within the existing footprint and grade of the roadway.

Climate Change Impacts & Resilience

The Department of Conservation and Recreation (DCR) is assessing park facilities, and the natural resources & cultural resources under DCR management, related to climate change vulnerability and resilience. The Department is working proactively to enhance climate change resilience via conservation land protection, ecological restoration initiatives such as invasive species management, and updates for design standards that will support best construction and management practices.

However, the work activities associated with this project will be focused on repaving areas of deteriorating pavement to support public safety and facilitate vehicular transportation. There will be a no-net change in impervious surface, and no impact on resiliency related to sea level rise nor increasing storm frequency.

Conclusion

Although portions of the Project will occur within LSCSF and the 100-foot buffer zone of salt marsh, coastal bank, and/or tidal flat, the proposed Project:

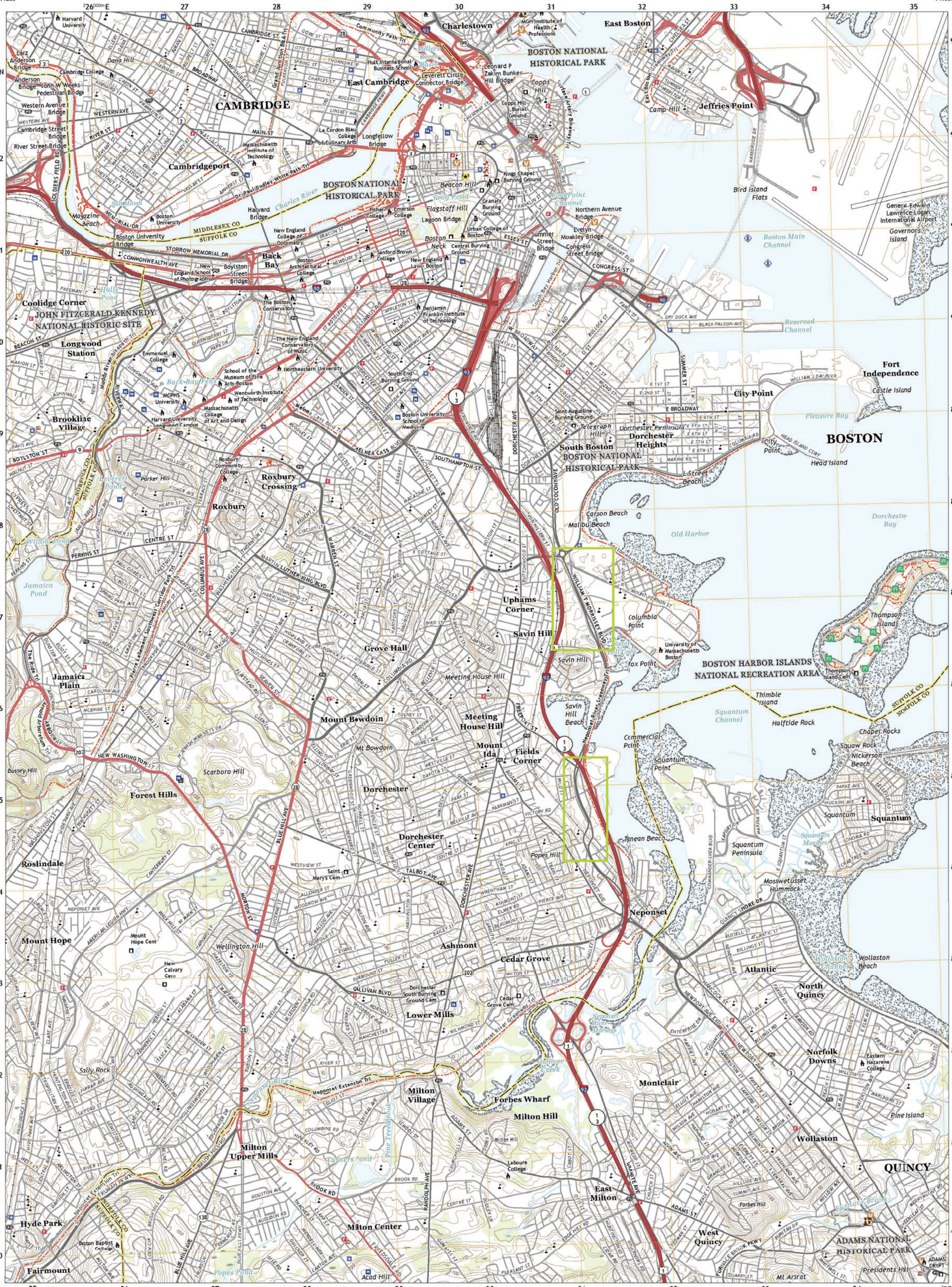
- Will avoid disturbance and alteration of existing resources by resurfacing the existing paved surfaces of Morrissey Boulevard - a paved road that predates the Wetlands Protection Act; and
- Will utilize appropriate BMPs to protect wetland resource areas from sedimentation and soil disturbance during project activities.

Therefore, DCR respectfully requests the Boston Conservation Commission find this proposal adequately protective of the public interests identified in the WPA and issue an Order of Conditions approving the project.

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
US Topo

BOSTON SOUTH QUADRANGLE
MASSACHUSETTS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 19T
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.......NAIP, July 2016 - September 2016
Roads.......U.S. Census Bureau, 2016
Names.......GNIS, 1974 - 2018
Hydrography.......National Hydrography Dataset, 2005 - 2016
Contours.......National Elevation Dataset, 2008 - 2012
Boundaries.......Multiple sources; see metadata file 2016 - 2017

Wetlands.......FWS National Wetlands Inventory 1992 - 2011

MN GN
14°27′ 257 MILS
1°23′ 25 MILS

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
CG
Grid Zone Designation 19T

SCALE 1:24 000
KLOMETERS 1 0.5 0 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

MASSACHUSETTS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES

1 Lexington
2 Boston North
3 Lynn
4 Newton
5 Hull
6 Norwood
7 Blue Hills
8 Weymouth

ROAD CLASSIFICATION
Expressway — Local Connector
Secondary Hwy — Local Road
Ramp — 4WD
Interstate Route — US Route — State Route

BOSTON SOUTH, MA
2021

NSN. 7643016369497
NGA REF NO. USGSX24K49392

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LiMWA)**. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Massachusetts State Plane Mainland Zone (FIPS zone 2001). The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM is derived from Massachusetts Geographic Information System (MassGIS) digital ortho-photography produced at 45 centimeter (2005) and 30 centimeter (2008) resolution. Aerial photography is dated Spring 2005 and Spring 2008.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data Tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map,** how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Only coastal structures that are certified to provide protection from the 1-percent-annual chance flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the DFIRM database in S_Gen_Struct.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.

Limit of Moderate Wave Action

Limit of Moderate Wave Action coincident with Zone Break

513 (EL 987) Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A Cross section line

23 — 23 Transect line

Culvert

Bridge

45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere

4989000 M 1000-meter grid: Massachusetts State Plane Mainland Zone (FIPS Zone 2001), Lambert Conformal Conic projection

4689000mN 1000-meter Universal Transverse Mercator tick values, zone 19N

DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 25, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
March 16, 2016 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations, to update the effects of wave action, to update corporate limits, to add roads and road names, to incorporate previously issued Letters of Map Revision and to modify Coastal Barrier Resource System units.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0083J

FIRM

FLOOD INSURANCE RATE MAP

SUFFOLK COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

PANEL 83 OF 176
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BOSTON, CITY OF	250286	0083	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
25025C0083J
MAP REVISED
MARCH 16, 2016

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LiMWA)**. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Massachusetts State Plane Mainland Zone (FIPS zone 2001). The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM is derived from Massachusetts Geographic Information System (MassGIS) digital ortho-photography produced at 45 centimeter (2005) and 30 centimeter (2008) resolution. Aerial photography is dated Spring 2005 and Spring 2008.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data Tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

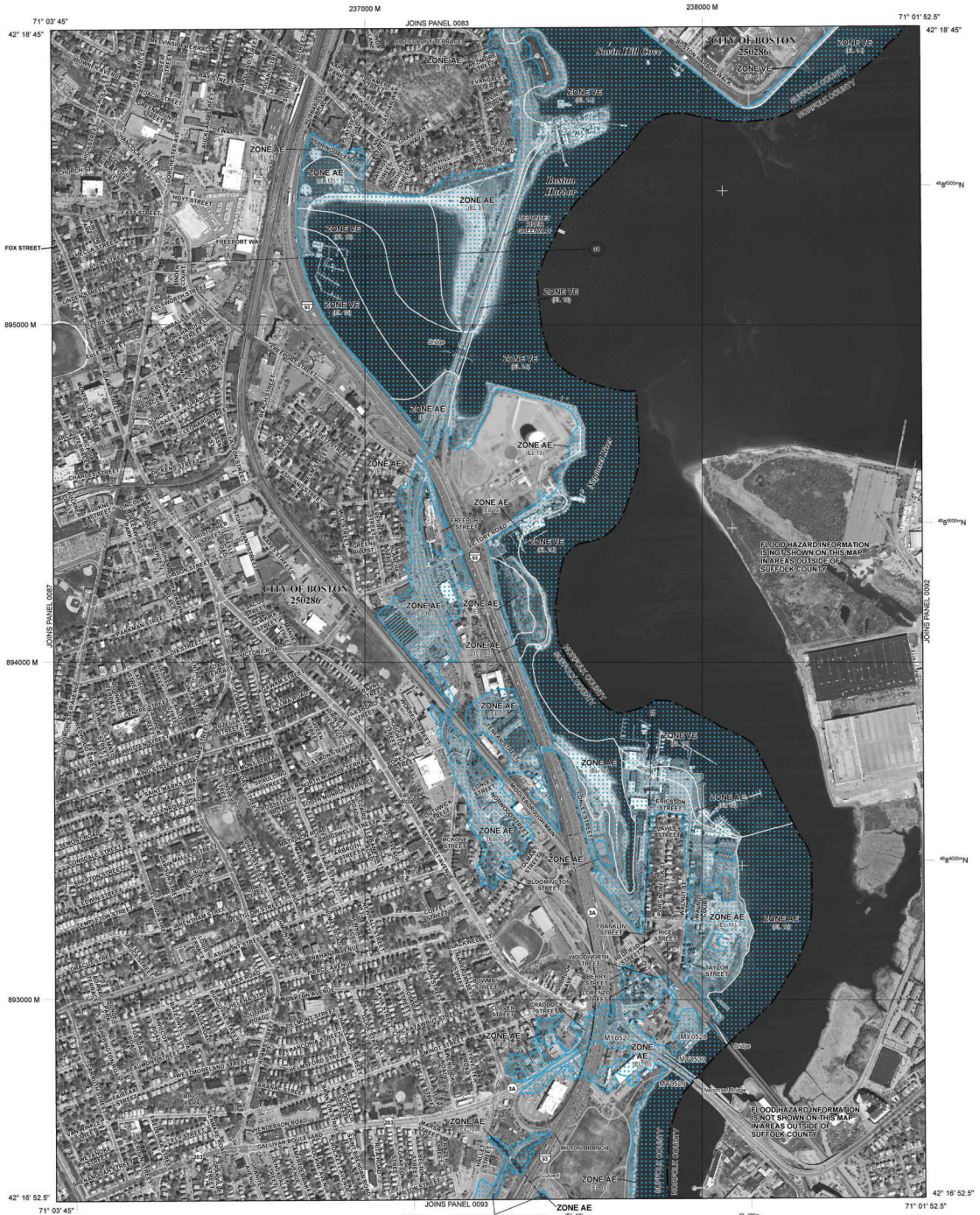
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map,** how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Only coastal structures that are certified to provide protection from the 1-percent-annual chance flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the DFIRM database in S_Gen_Struct.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.

Limit of Moderate Wave Action

Limit of Moderate Wave Action coincident with Zone Break

513 — Base Flood Elevation line and value; elevation in feet*

(EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A — Cross section line

23 — 23 — Transect line

Culvert

Bridge

45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere

4989000 M — 1000-meter grid: Massachusetts State Plane Mainland Zone (FIPS Zone 2001), Lambert Conformal Conic projection

4689000mN — 1000-meter Universal Transverse Mercator tick values, zone 19N

DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 25, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
March 16, 2016 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations, to update the effects of wave action, to update corporate limits, to add roads and road names, to incorporate previously issued Letters of Map Revision and to modify Coastal Barrier Resource System units.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0091J

FIRM

FLOOD INSURANCE RATE MAP

SUFFOLK COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

PANEL 91 OF 176
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BOSTON, CITY OF	250286	0091	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
25025C0091J
MAP REVISED
MARCH 16, 2016

Federal Emergency Management Agency

Morrissey Boulevard
Boston, MA
Proposed resurfacing
Figure 1

Key

Proposed resurfacing

FEMA NFHL

- AE
- VE

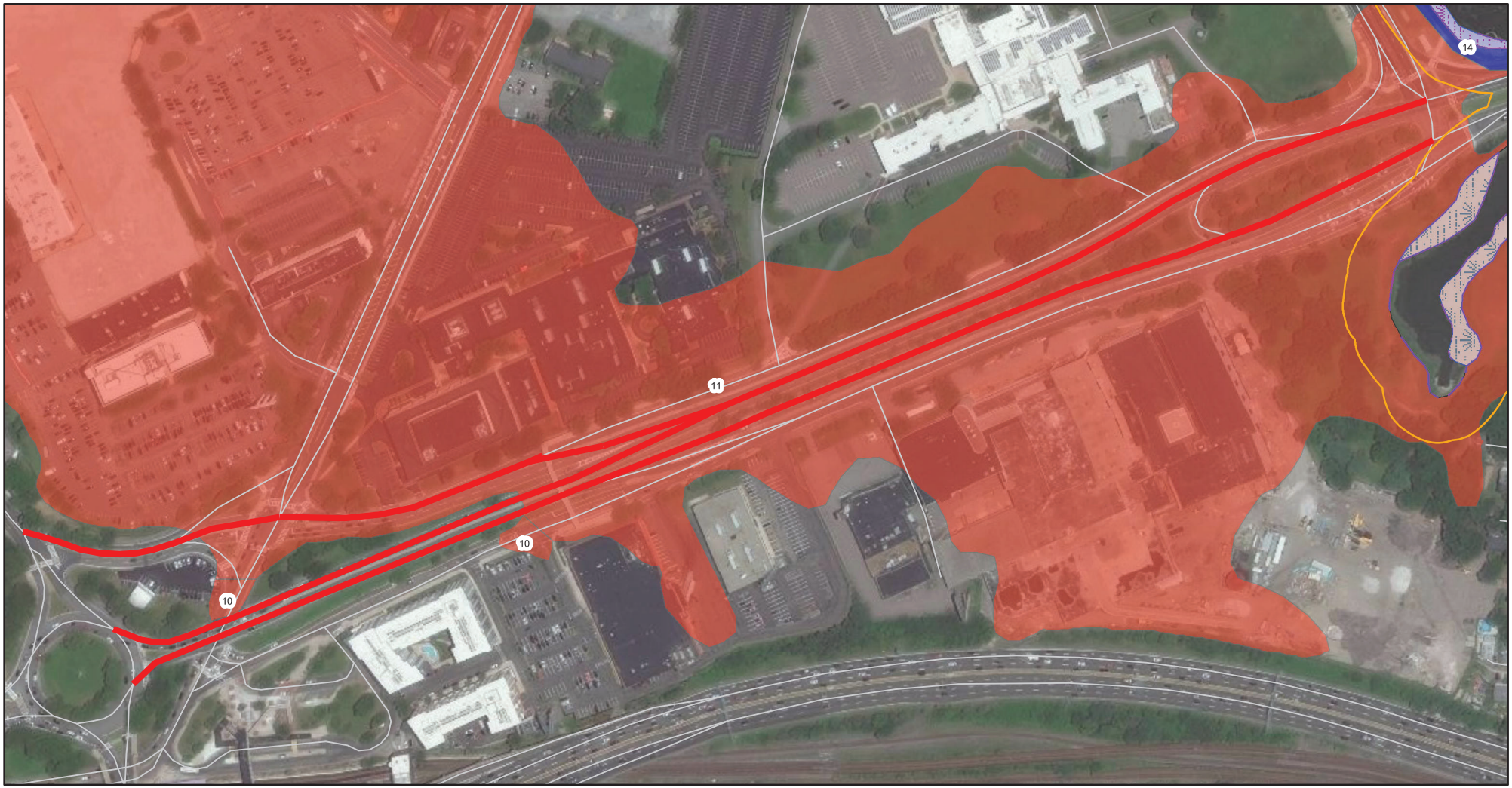
Wetland Resource Areas

- COASTAL BANK BLUFF OR SEA CLIFF
- SALT MARSH
- TIDAL FLAT
- 100-ft Buffer Zone

0 250 500 1,000 Feet

N

Date: 4/21/2021



Morrissey Boulevard
Boston, MA
Proposed resurfacing
Figure 2

Key

Proposed resurfacing

FEMA NFHL

AE

Wetland Resource Areas

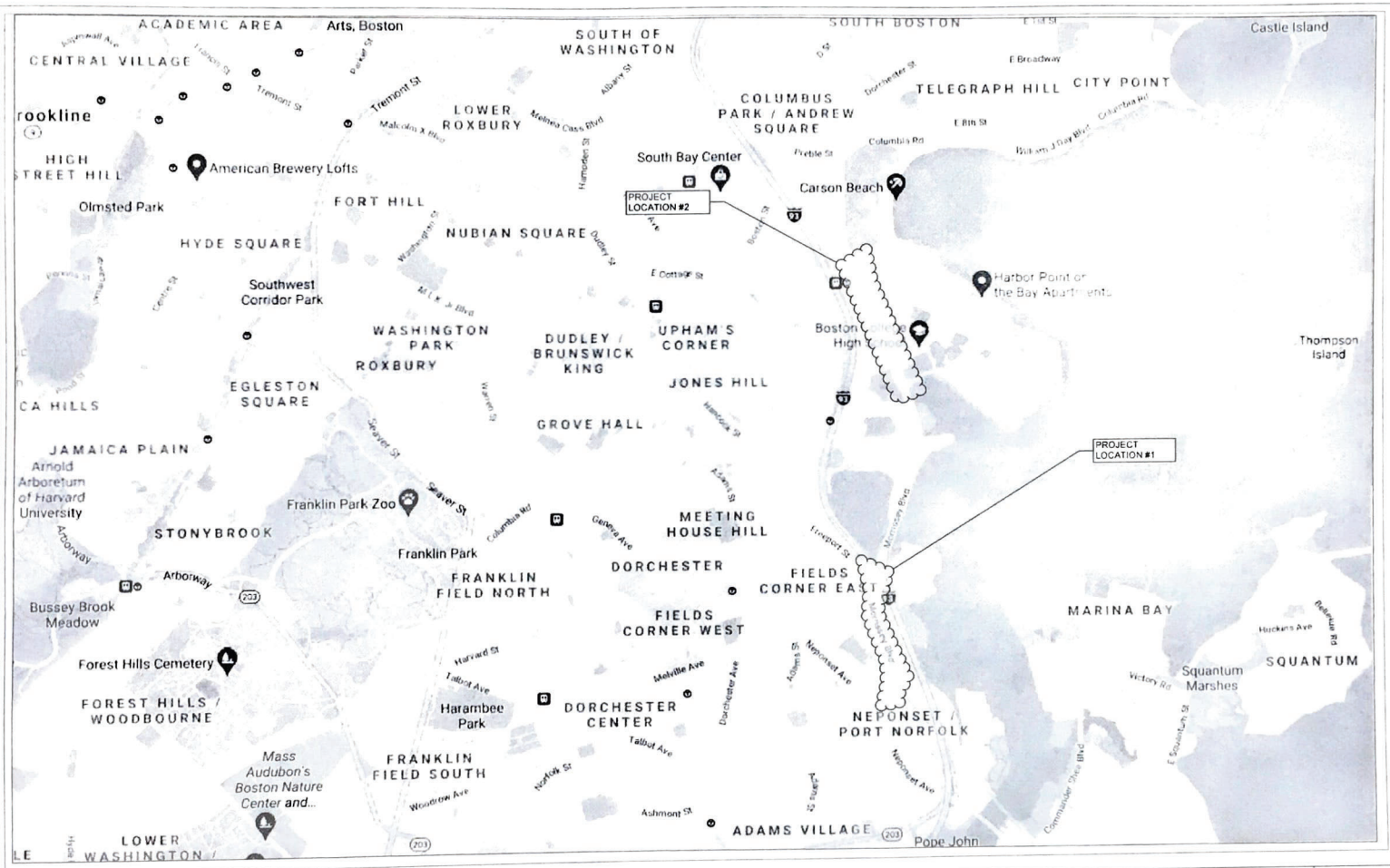
SHALLOW MARSH MEADOW OR FEN

100-ft Buffer Zone

0 230 460 920 Feet

N

Date: 4/21/2021



SCALE: NOT TO SCALE

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

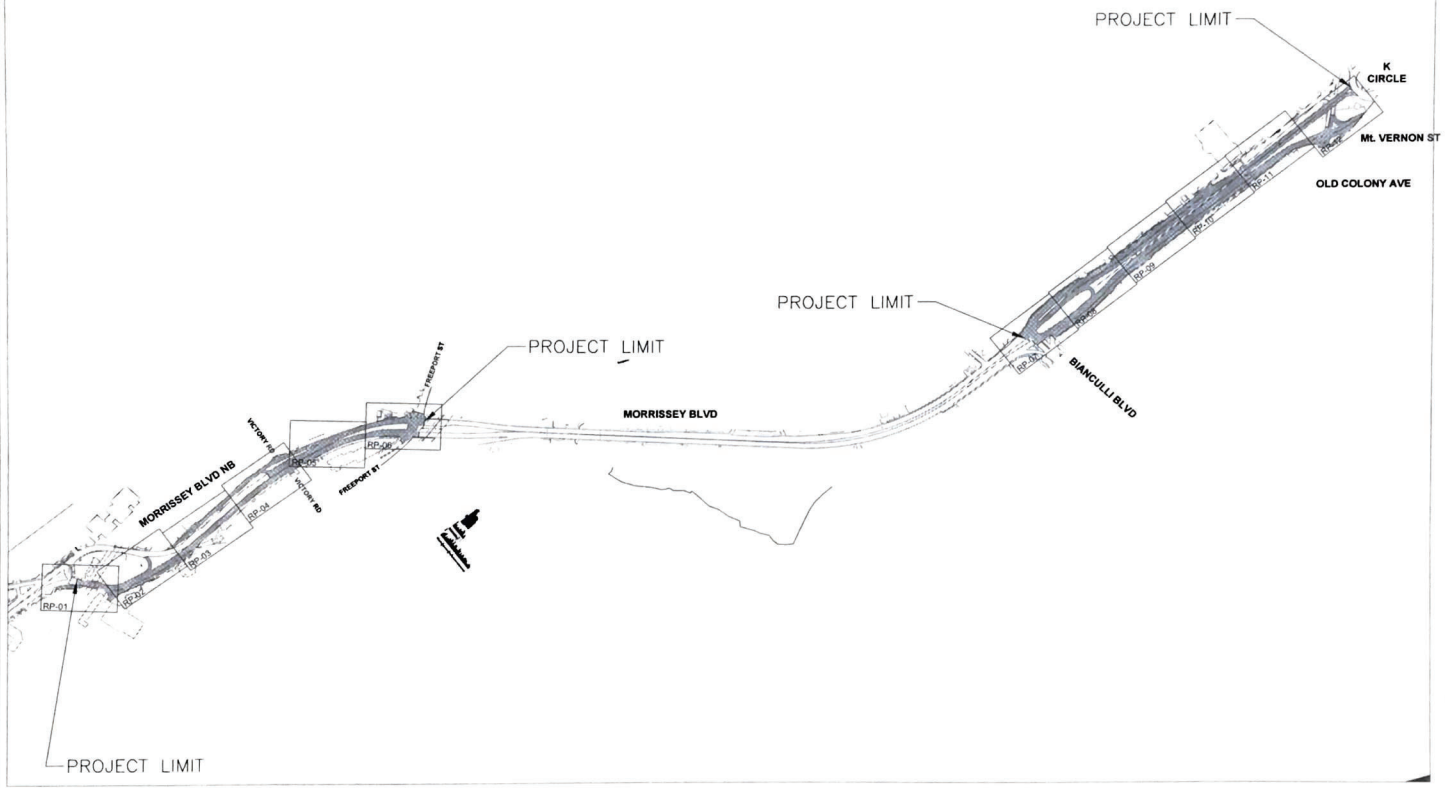
CITY/TOWN: BOSTON

DRAWING TITLE: LOCATION PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-12

SHEET NO.:



SCALE: NOT TO SCALE

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: —

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

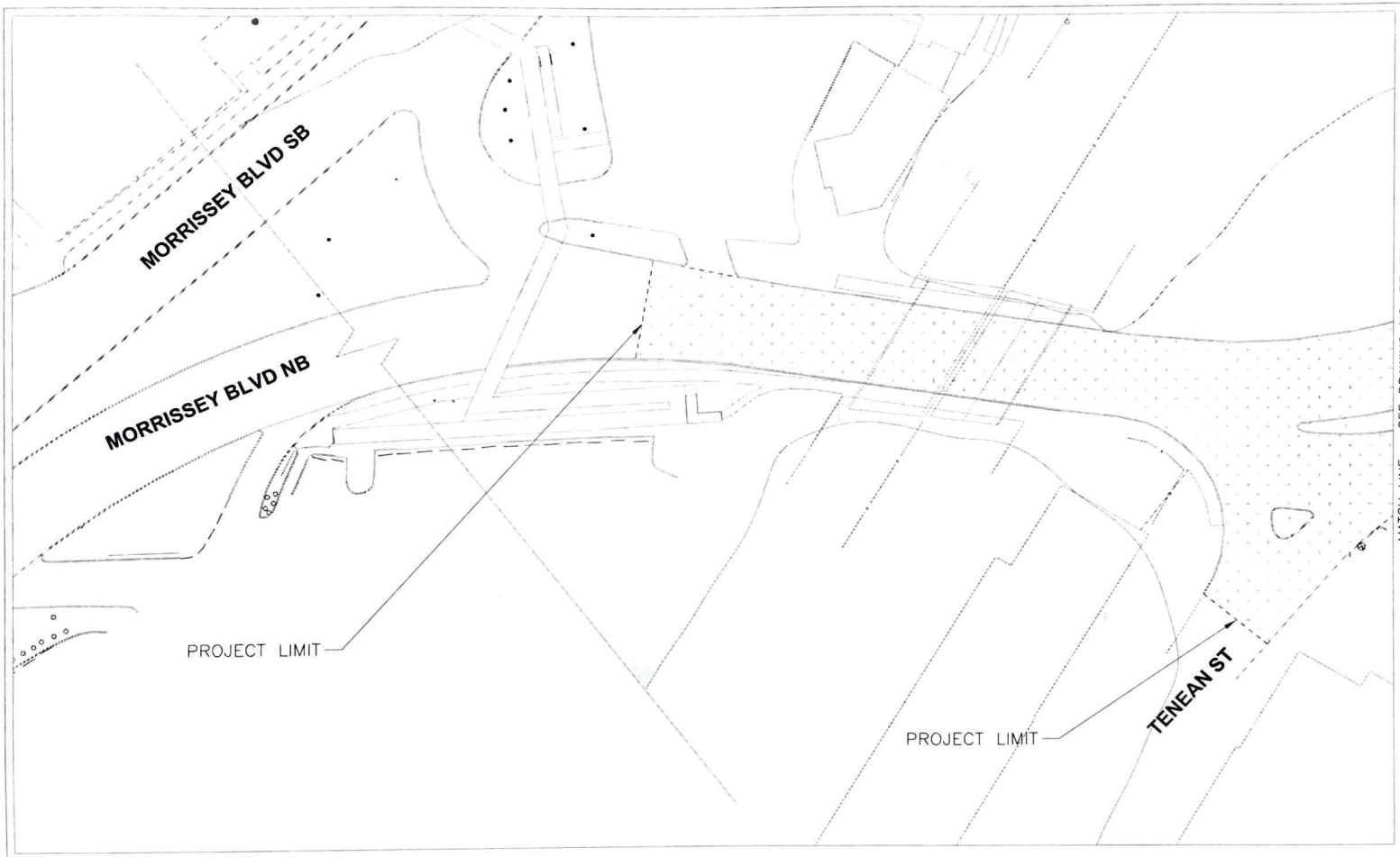
CITY/TOWN: BOSTON

DRAWING TITLE: KEY PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-12

SHEET NO.:



N

PROP. PAVING AREA WITHIN THE FLOODZONE:
16,970 SQFT

FEMA FLOODZONE

PROP. PAVING

SCALE: 1"=20'

0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

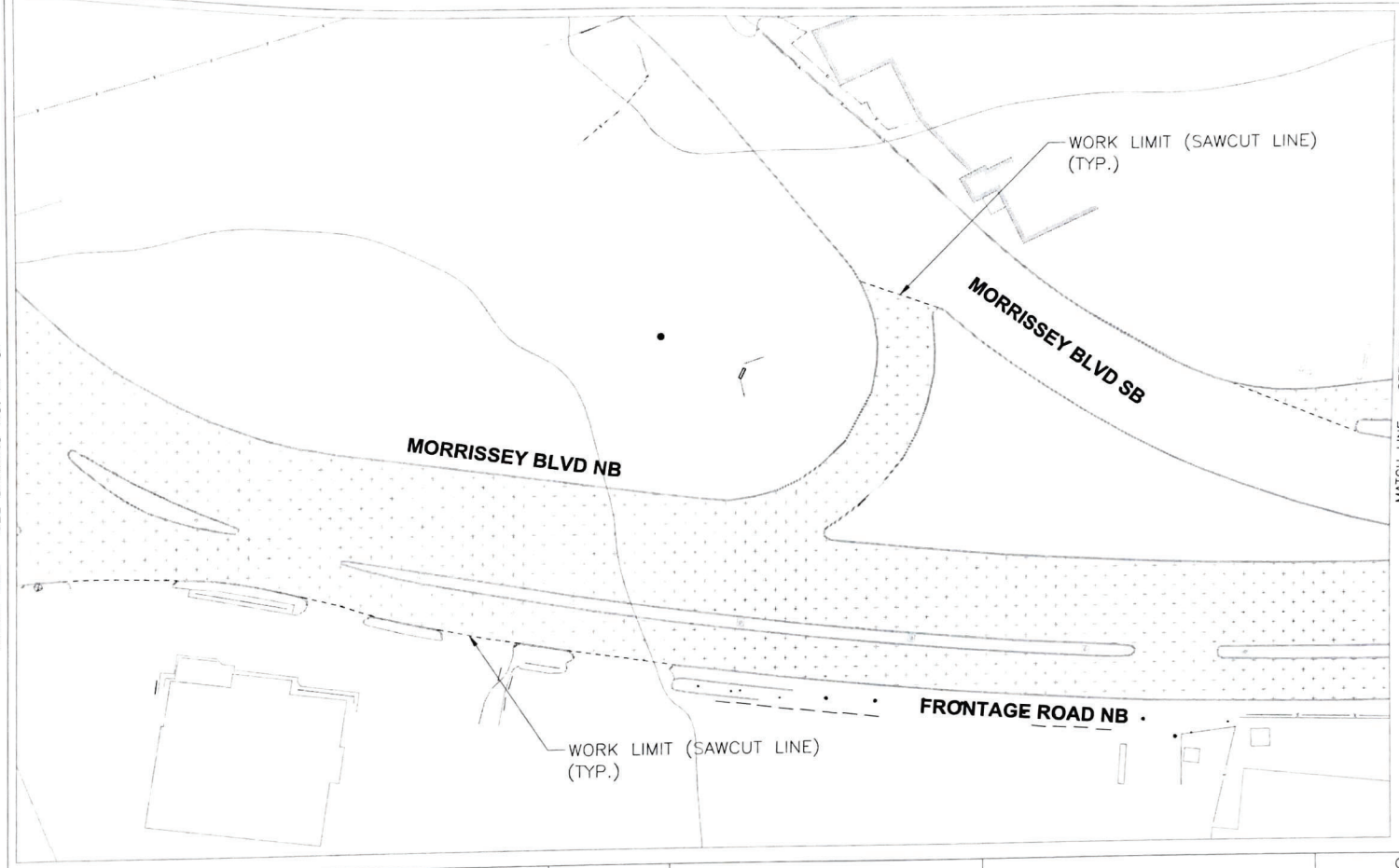
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-01

SHEET NO.:



MATCH LINE – SEE DRAWING NO. RP-01

MATCH LINE – SEE DRAWING NO. RP-03

N

PROP. PAVING AREA WITHIN THE FLOODZONE:
13,550 SQFT

FEMA FLOODZONE

PROP. PAVEMENT

SCALE: 1"=20'
0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

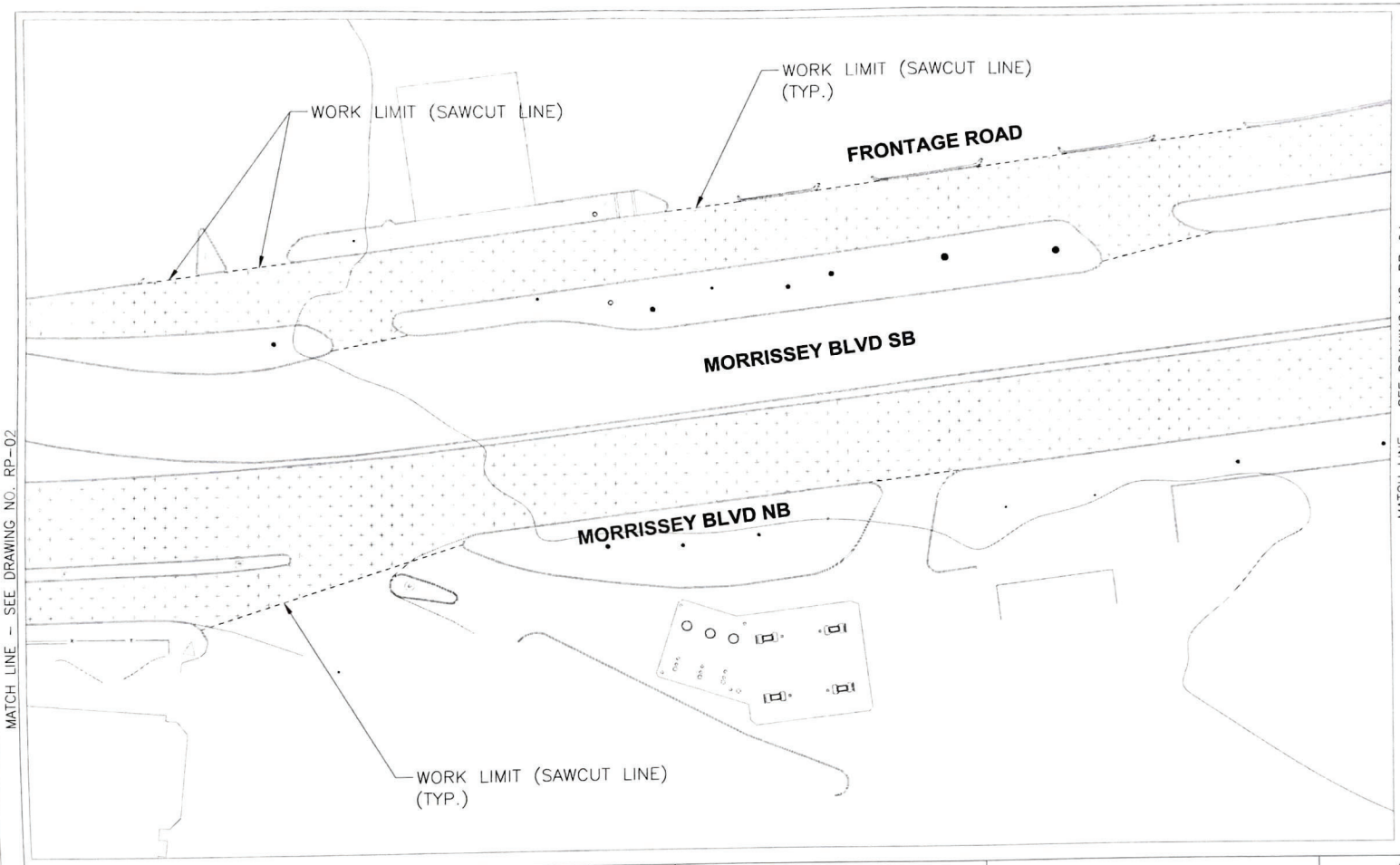
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-02

SHEET NO.:



MATCH LINE – SEE DRAWING NO. RP-02

MATCH LINE – SEE DRAWING NO. RP-04

N

PROP. PAVING AREA WITHIN THE FLOODZONE:
28,555 SQFT

FEMA FLOODZONE

PROP. PAVEMENT

SCALE: 1"=20'
0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

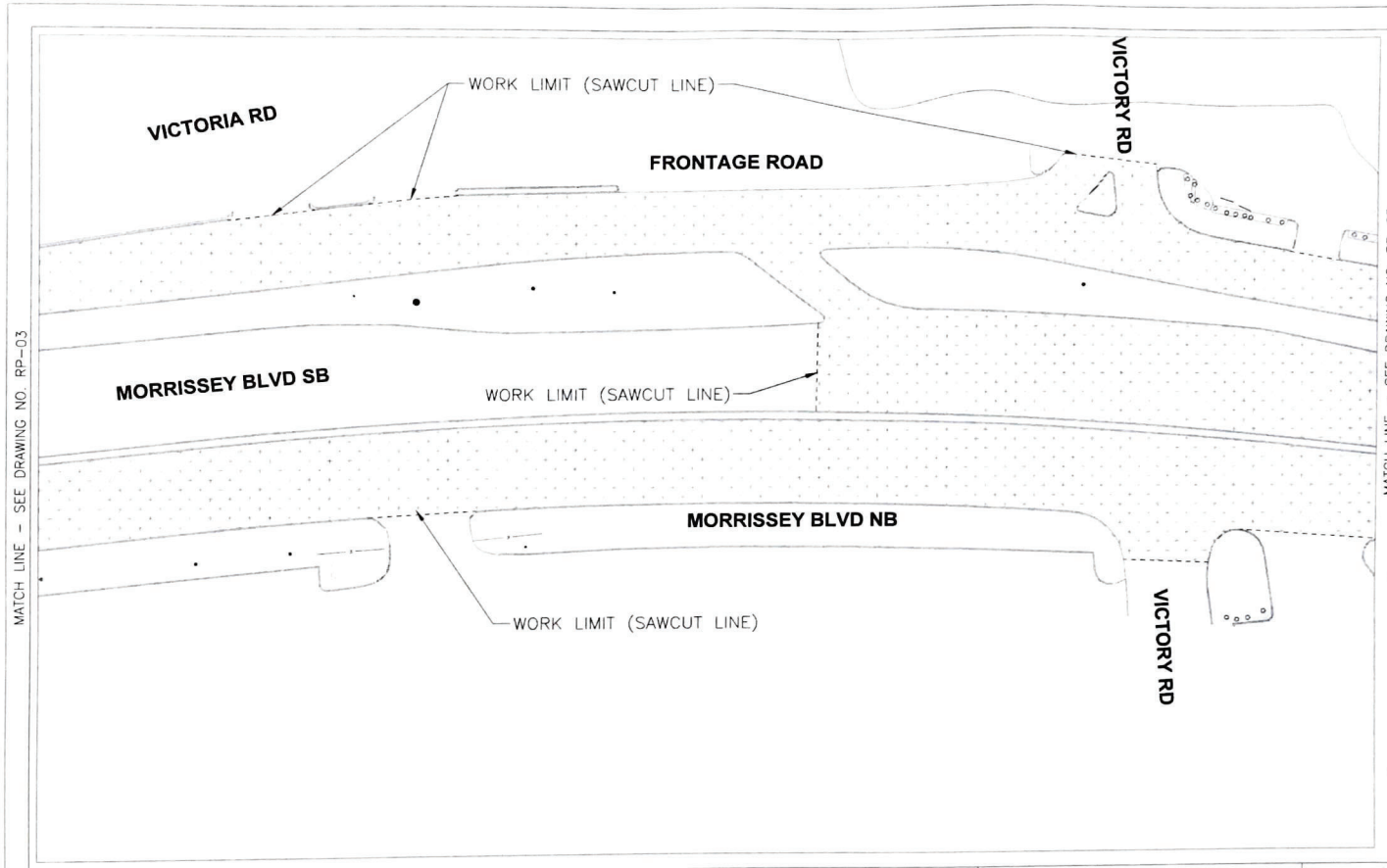
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-03

SHEET NO.:



PROP. PAVING AREA WITHIN THE FLOODZONE:
52,090 SQFT

SCALE: 1"=20'
0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

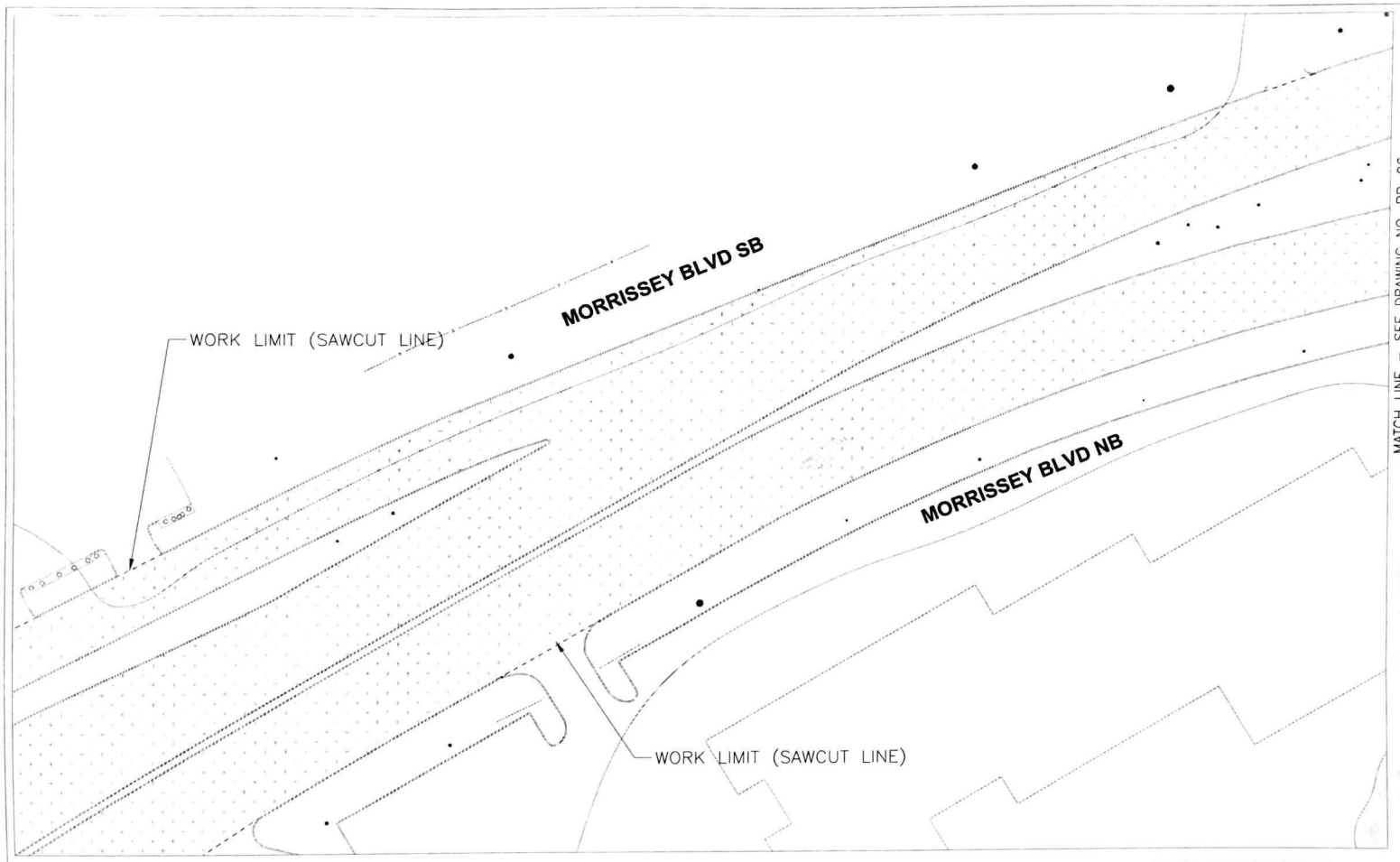
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-04

SHEET NO.:



PROP. PAVING AREA WITHIN THE FLOODZONE:
46,040 SQFT

FEMA FLOODZONE

PROP. PAVEMENT

SCALE: 1"=20'
0' 20' 40' 80' 100'

APRIL 26, 2021

5-3-21

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

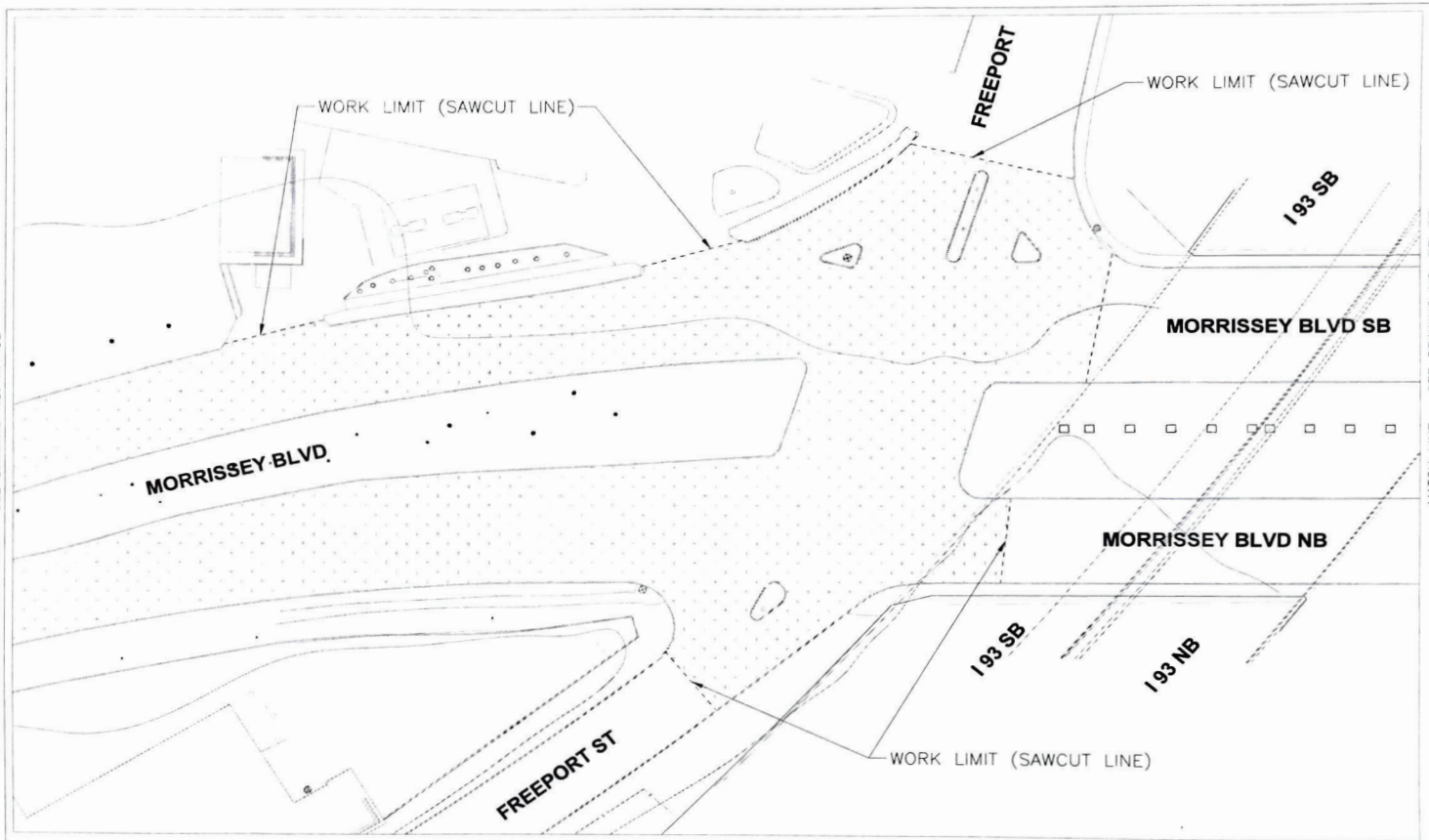
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-05

SHEET NO.:



APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: —

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-06

SHEET NO.:

MATCH LINE – SEE DRAWING NO. RP-06

MATCH LINE – SEE DRAWING NO. RP-08

N

PROP. PAVING AREA WITHIN THE FLOODZONE:
54,800 SQFT

FEMA FLOODZONE

PROP. PAVING

SCALE: 1"=20'

0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

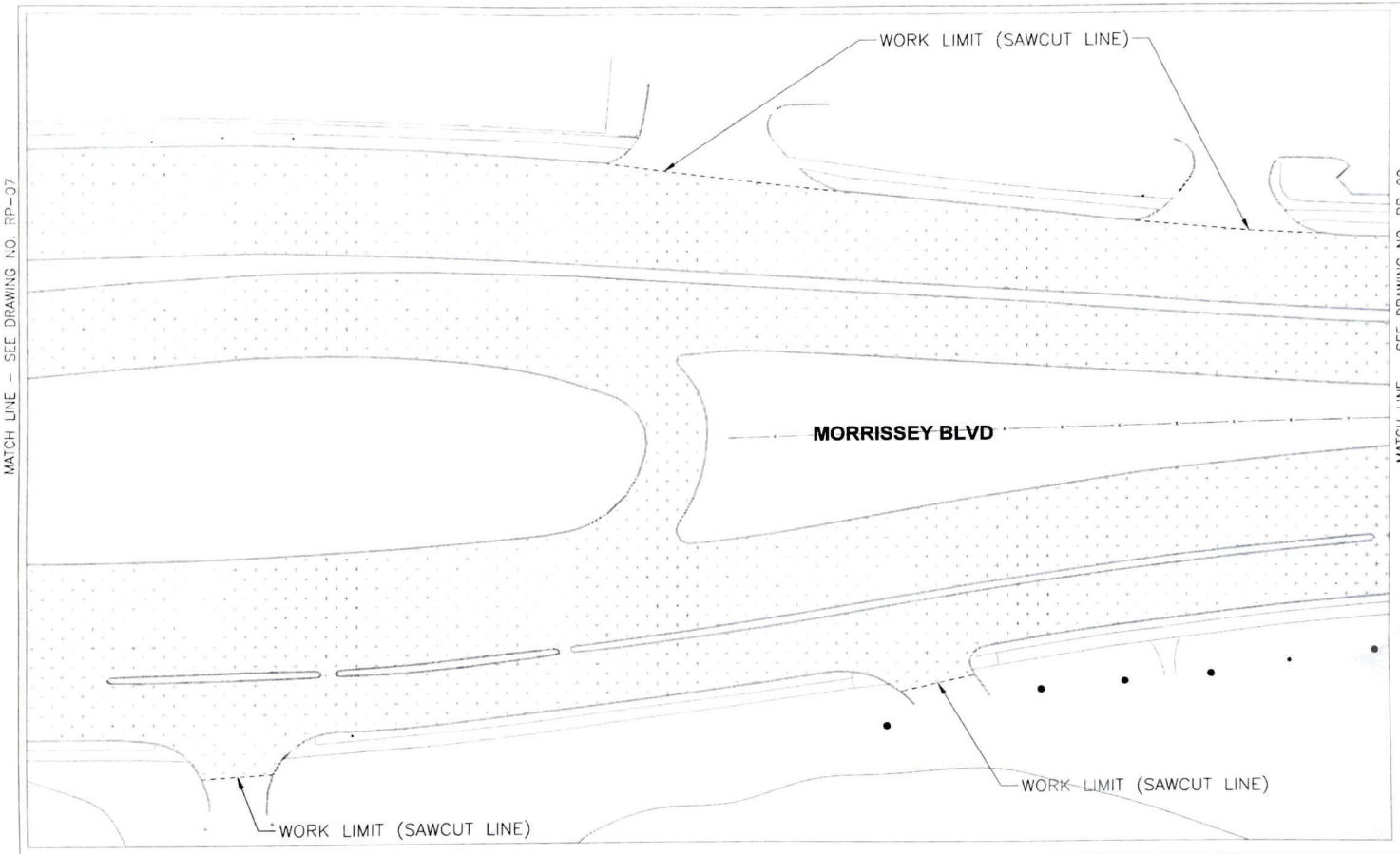
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-07

SHEET NO.:



MATCH LINE – SEE DRAWING NO. RP-07

MATCH LINE – SEE DRAWING NO. RP-09

N

PROP. PAVING AREA WITHIN THE FLOODZONE:
84,735 SQFT

FEMA FLOODZONE

PROP. PAVING

SCALE: 1"=20'
0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

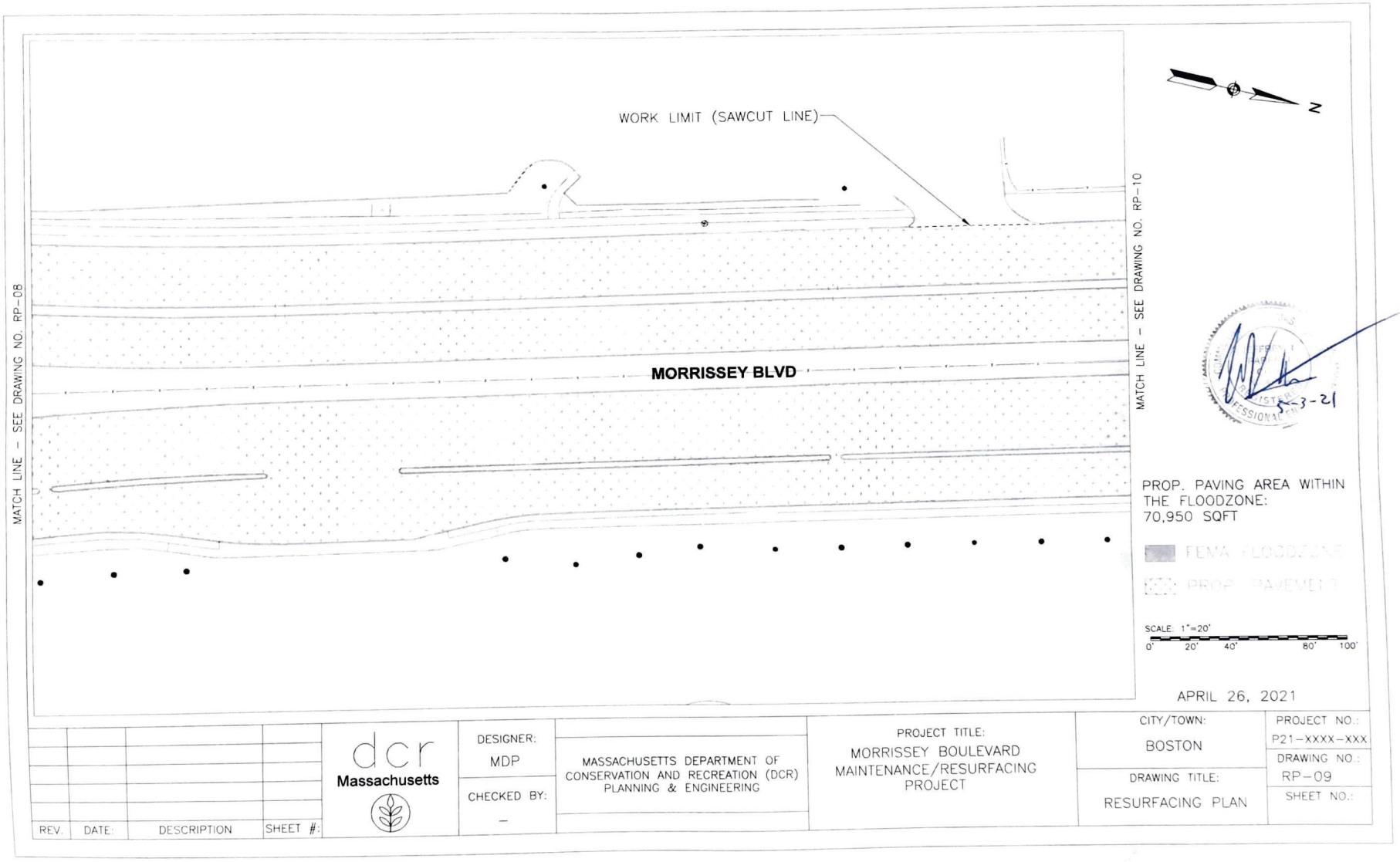
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-08

SHEET NO.:



APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

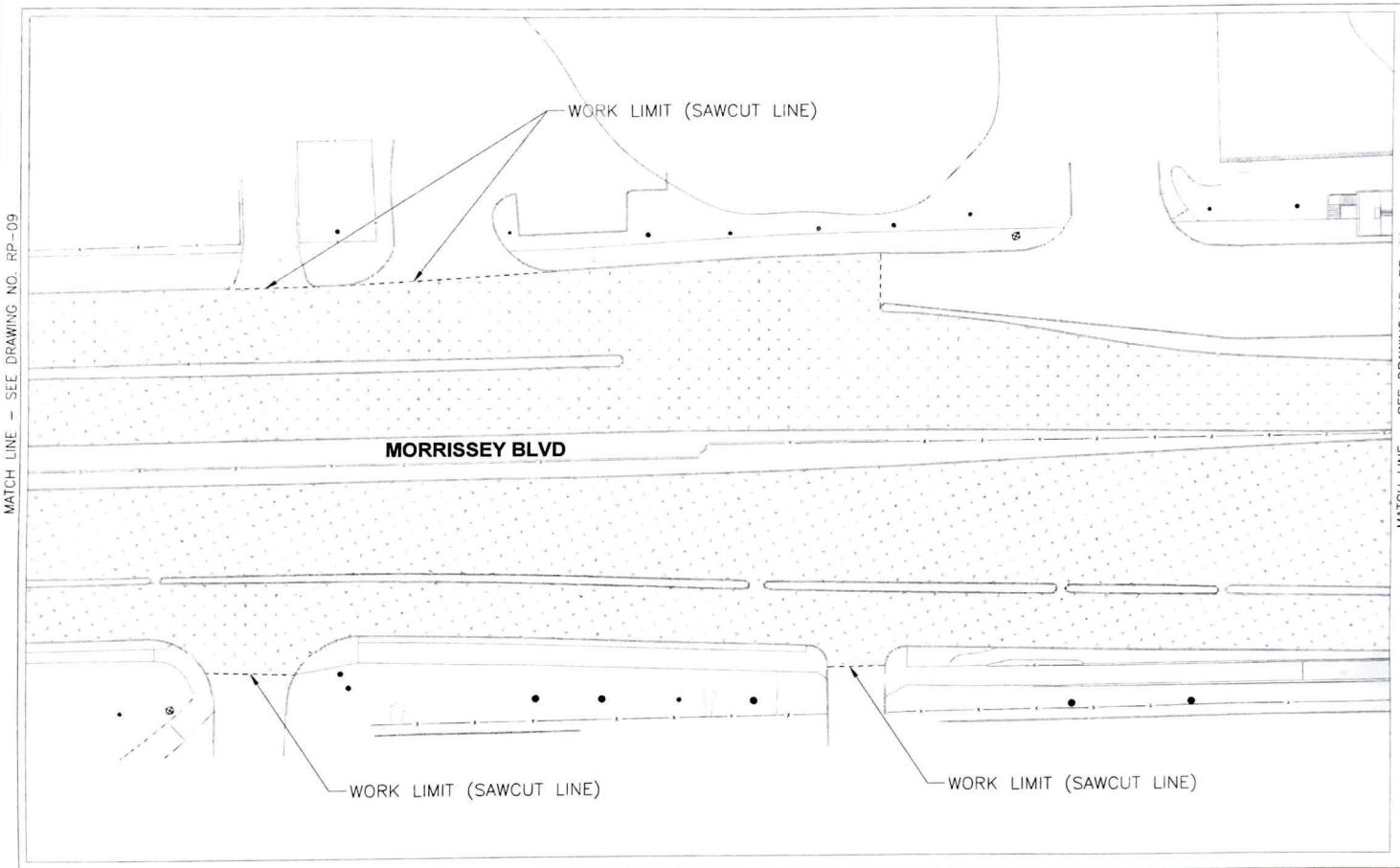
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-09

SHEET NO.:



MATCH LINE – SEE DRAWING NO. RP-09

MATCH LINE – SEE DRAWING NO. RP-11

N

5-3-21

PROP. PAVING AREA WITHIN THE FLOODZONE:
73,960 SQFT

FEMA FLOODZONE

PROP. PAVEMENT

SCALE: 1"=20'
0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

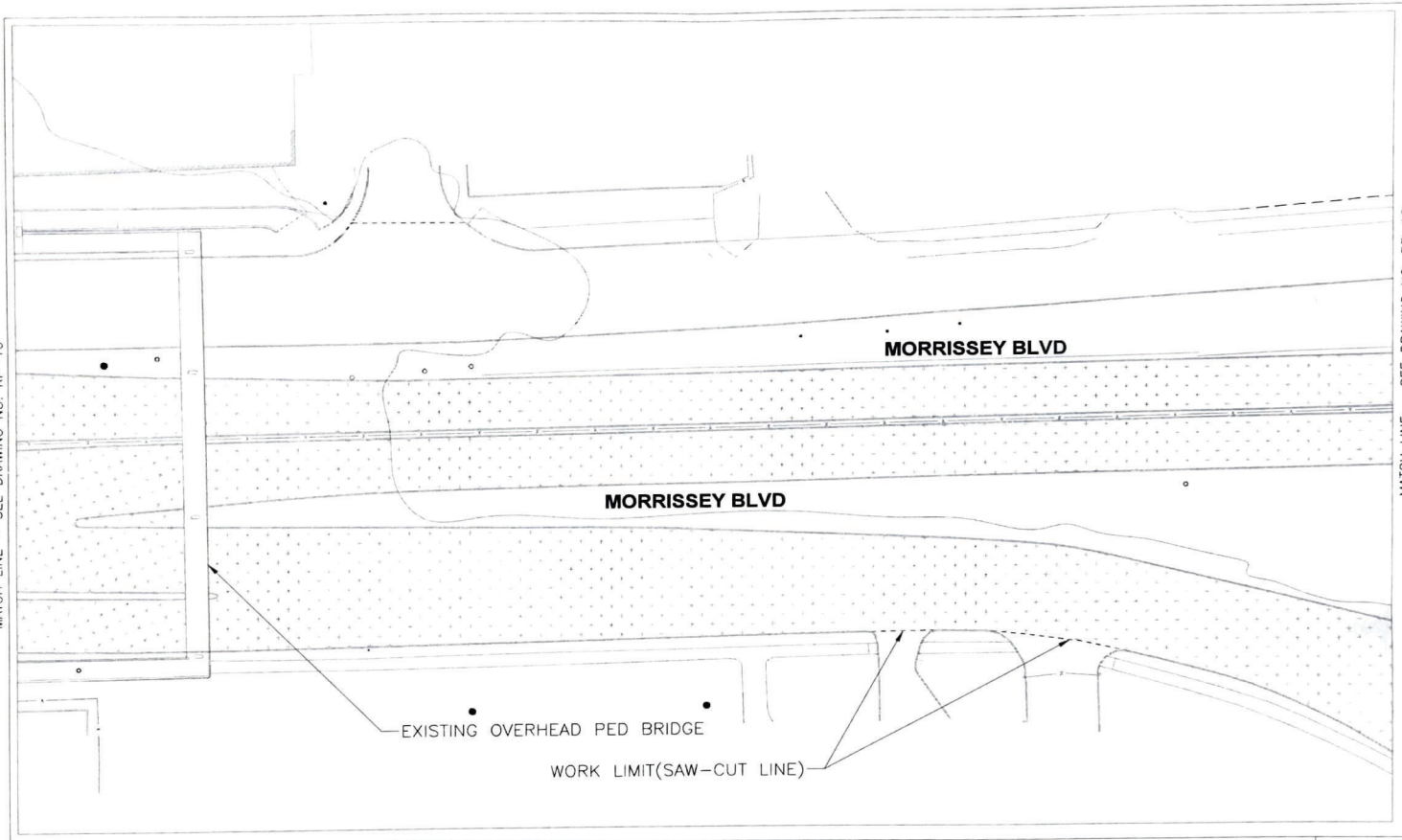
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-10

SHEET NO.:



MATCH LINE – SEE DRAWING NO. RP-10

MATCH LINE – SEE DRAWING NO. RP-12

N

PROP. PAVING AREA WITHIN THE FLOODZONE: 33,925 SQFT

FEMA FLOODZONE

PROP. PAVEMENT

SCALE 1"=20'

0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: –

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

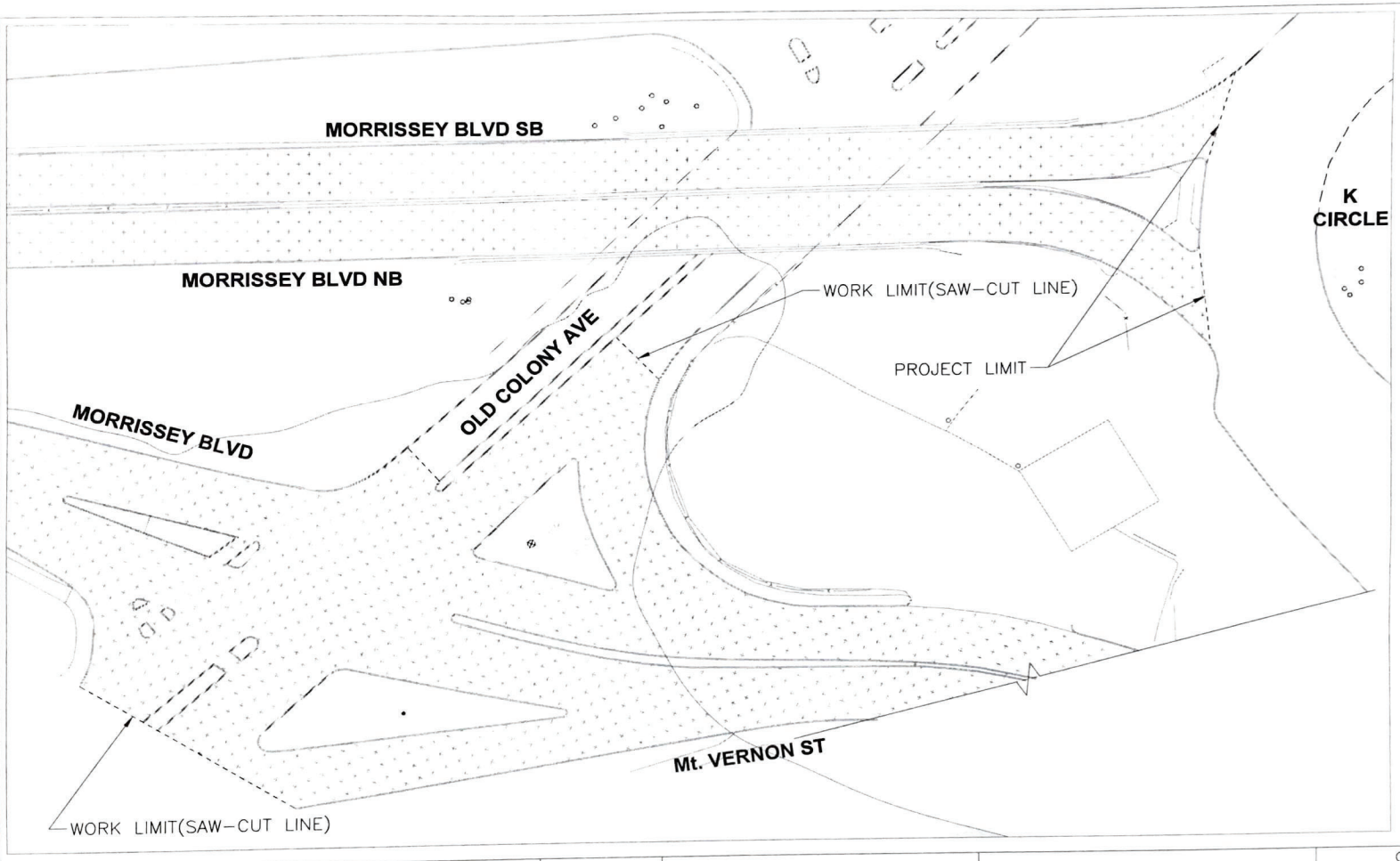
CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-11

SHEET NO.



MATCH LINE - SEE DRAWING NO. RP-11

N

5-3-21

PROP. PAVING AREA WITHIN THE FLOODZONE:
30,065 SQFT

FEMA FLOODZONE

PROP. PAVING

SCALE: 1"=20'

0' 20' 40' 80' 100'

APRIL 26, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: MDP

CHECKED BY: —

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION (DCR) PLANNING & ENGINEERING

PROJECT TITLE: MORRISSEY BOULEVARD MAINTENANCE/RESURFACING PROJECT

CITY/TOWN: BOSTON

DRAWING TITLE: RESURFACING PLAN

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: RP-12

SHEET NO.:

Photo 1. Morrissey Boulevard facing southeast from K. Circle.

Photo 2. Example of poor road condition and existing catch basins at Morrissey Boulevard.

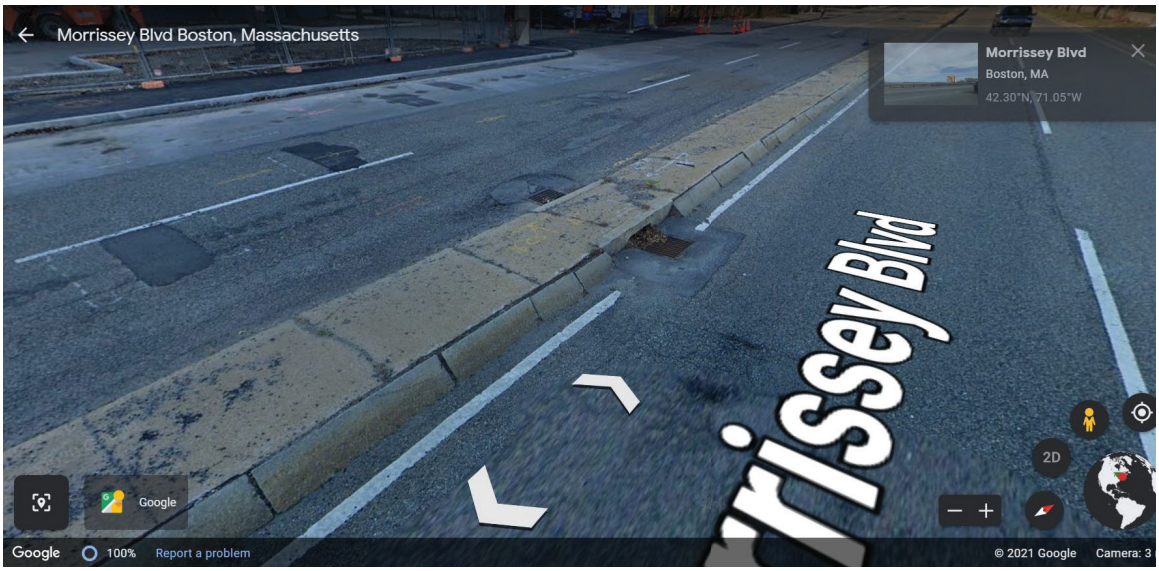


Photo 3. Example of existing catch basin at Morrissey Boulevard.

Photo 4. Morrissey Boulevard facing southeast toward median island.

Photo 5. Morrissey Boulevard facing south from Freeport Street intersection.

Photo 6. Example of poor sidewalk condition adjacent to Morrissey Boulevard.

Photo 7. Service road adjacent to Morrissey Boulevard facing southeast.

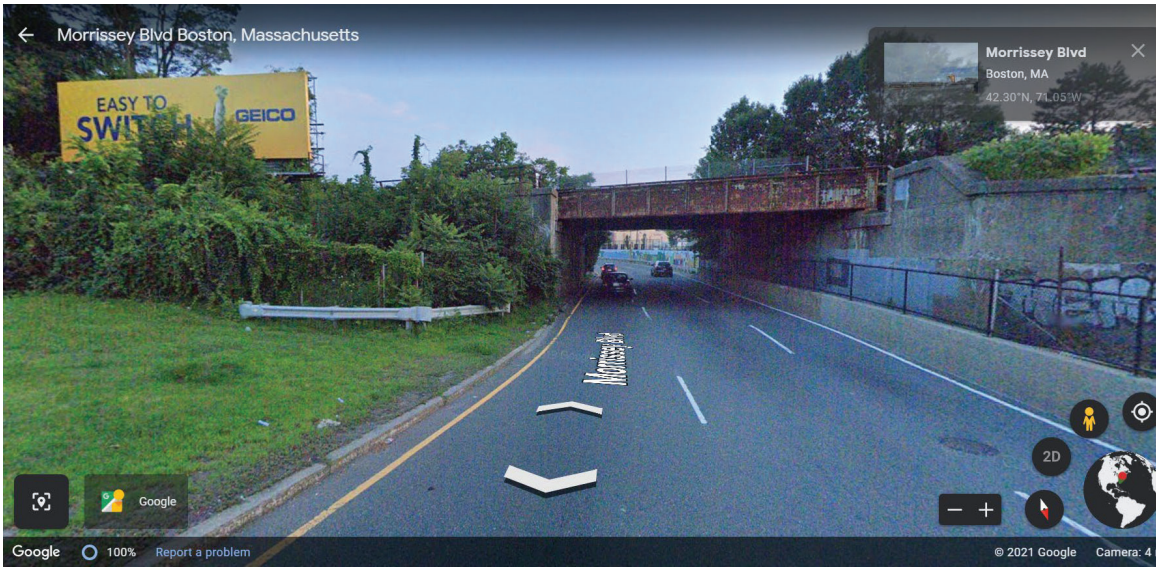


Photo 8. Morrissey Boulevard facing southwest toward Popes Hill Pedestrian Bridge.

BABEL NOTICE

English:

IMPORTANT! This document or application contains **important information** about your rights, responsibilities and/or benefits. It is crucial that you understand the information in this document and/or application, and we will provide the information in your preferred language at no cost to you. If you need them, please contact us at cc@boston.gov or 617-635-3850.

Spanish:

¡IMPORTANTE! Este documento o solicitud contiene **información importante** sobre sus derechos, responsabilidades y/o beneficios. Es fundamental que usted entienda la información contenida en este documento y/o solicitud, y le proporcionaremos la información en su idioma preferido sin costo alguno para usted. Si los necesita, póngase en contacto con nosotros en el correo electrónico cc@boston.gov o llamando al 617-635-3850.

Haitian Creole:

AVI ENPÒTAN! Dokiman oubyen aplikasyon sa genyen **enfòmasyon ki enpòtan** konsènan dwa, responsablite, ak/oswa benefis ou yo. Li enpòtan ke ou konprann enfòmasyon ki nan dokiman ak/oubyen aplikasyon sa, e n ap bay enfòmasyon an nan lang ou prefere a, san ou pa peye anyen. Si w bezwen yo, tanpri kontakte nou nan cc@boston.gov oswa 617-635-3850.

Traditional Chinese:

非常重要！這份文件或是申請表格包含關於您的權利，責任，和／或福利的重要信息。請您務必完全理解這份文件或申請表格的全部信息，這對我們來說十分重要。我們會免費給您提供翻譯服務。如果您有需要請聯系我們的郵箱 cc@boston.gov 電話# 617-635-3850..

Vietnamese:

QUAN TRỌNG! Tài liệu hoặc đơn yêu cầu này chứa **thông tin quan trọng** về các quyền, trách nhiệm và/hoặc lợi ích của bạn. Việc bạn hiểu rõ thông tin trong tài liệu và/hoặc đơn yêu cầu này rất quan trọng, và chúng tôi sẽ cung cấp thông tin bằng ngôn ngữ bạn muốn mà không tính phí. Nếu quý vị cần những dịch vụ này, vui lòng liên lạc với chúng tôi theo địa chỉ cc@boston.gov hoặc số điện thoại 617-635-3850.

Simplified Chinese:

非常重要！这份文件或是申请表格包含关于您的权利，责任，和／或福利的重要信息。请您务必完全理解这份文件或申请表格的全部信息，这对我们来说十分重要。我们会免费给您提供翻译服务。如果您有需要请联系我们的邮箱 cc@boston.gov 电话# 617-635-3850.

CITY of BOSTON

Cape Verdean Creole:

INPURTANTI! Es dukumentu ó aplikason ten **informason inpurtanti** sobri bu direitus, rasponsabilidadis i/ó benefísius. Ê krusial ki bu intendi informason na es dukumentu i/ó aplikason ó nu ta da informason na língua di bu preferênsia sen ninhun kustu pa bó. Si bu prisiza del, kontata-nu na cc@boston.gov ó 617-635-3850.

Arabic:

مهم! يحتوي هذا المستند أو التطبيق على معلومات مهمة حول حقوقك ومسؤولياتك أو فوائدك. من الأهمية أن تفهم المعلومات الواردة في هذا المستند أو التطبيق. سوف نقدم المعلومات بلغتك المفضلة دون أي تكلفة عليك. إذا كنت في حاجة إليها، يرجى الاتصال بنا على cc@boston.gov أو 617-635-3850.

Russian:

ВАЖНО! В этом документе или заявлении содержится **важная информация** о ваших правах, обязанностях и/или льготах. Для нас очень важно, чтобы вы понимали приведенную в этом документе и/или заявлении информацию, и мы готовы бесплатно предоставить вам информацию на предпочитаемом вами языке. Если Вам они нужны, просьба связаться с нами по адресу электронной почты cc@boston.gov, либо по телефону 617-635-3850.

Portuguese:

IMPORTANTE! Este documento ou aplicativo contém **Informações importantes** sobre os seus direitos, responsabilidades e/ou benefícios. É importante que você compreenda as informações contidas neste documento e/ou aplicativo, e nós iremos fornecer as informações em seu idioma de preferência sem nenhum custo para você. Se precisar deles, fale conosco: cc@boston.gov ou 617-635-3850.

French:

IMPORTANT ! Ce document ou cette demande contient des **informations importantes** concernant vos droits, responsabilités et/ou avantages. Il est essentiel que vous compreniez les informations contenues dans ce document et/ou cette demande, que nous pouvons vous communiquer gratuitement dans la langue de votre choix. Si vous en avez besoin, veuillez nous contacter à cc@boston.gov ou au 617-635-3850.

CITY of BOSTON

NOTIFICATION TO ABUTTERS
BOSTON CONSERVATION COMMISSION

In accordance with the Massachusetts Wetlands Protection Act, Massachusetts General Laws Chapter 131, Section 40, and the Boston Wetlands Ordinance, you are hereby notified as an abutter to a project filed with the Boston Conservation Commission.

A. MA Department of Conservation and Recreation (DCR) has filed a Notice of Intent with the Boston Conservation Commission seeking permission to alter an Area Subject to Protection under the Wetlands Protection Act (General Laws Chapter 131, section 40) and Boston Wetlands Ordinance.

B. The address of the lot where the activity is proposed is Morrissey Boulevard.

C. The project involves roadway reclaim and repave, curb and sidewalk repair.

D. Copies of the Notice of Intent may be obtained by contacting the Boston Conservation Commission at **CC@boston.gov**.

E. Copies of the Notice of Intent may be obtained from Stefanie Farrington, stefanie.farrington@mass.gov, between the hours of 9am-5pm Monday-Friday.

F. In accordance with the Commonwealth of Massachusetts Executive Order Suspending Certain Provisions of the Open Meeting Law, the public hearing will take place **virtually** at https://zoom.us/j/6864582044. If you are unable to access the internet, you can call 1-929-205-6099, enter Meeting ID 686 458 2044 # and use # as your participant ID.

G. Information regarding the date and time of the public hearing may be obtained from the **Boston Conservation Commission** by emailing **CC@boston.gov** or calling **(617) 635-3850** between the hours of **9 AM to 5 PM, Monday through Friday.**

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the **Boston Herald.**

NOTE: Notice of the public hearing, including its date, tine, and place, will be posted on www.boston.gov/public-notices and in Boston City Hall not less than forty-eight (48) hours in advance.

NOTE: If you would like to provide comments, you may attend the public hearing or send written comments to CC@boston.gov or Boston City Hall, Environment Department, Room 709, 1 City Hall Square, Boston, MA 02201

NOTE: You also may contact the Boston Conservation Commission or the Department of Environmental Protection Northeast Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call: the Northeast Region: (978) 694-3200.

NOTIFICACIÓN PARA PROPIETARIOS Y/O VECINOS COLINDANTES COMISIÓN DE CONSERVACIÓN DE BOSTON

De conformidad con la Ley de protección de los humedales de Massachusetts, el Capítulo 131, Sección 40 de las Leyes Generales de Massachusetts y la Ordenanza sobre los humedales de Boston, por la presente queda usted notificado como propietario o vecino colindante de un proyecto presentado ante la Comisión de Conservación de Boston.

A. MA Department of Conservation and Recreation (DCR) ha presentado una solicitud a la Comisión de Conservación de Boston pidiendo permiso para modificar una zona sujeta a protección en virtud de la Ley de protección de los humedales (Leyes generales, capítulo 131, sección 40) y la Ordenanza sobre los humedales de Boston.

B. La dirección del lote donde se propone la actividad es Morrissey Boulevard**.**

C. El proyecto consiste en reclamación y repavimentación de carreteras, reparación de bordillos y aceras.

D. Se pueden obtener copias del Aviso de Intención comunicándose con la Comisión de Conservación de Boston en CC@boston.gov.

E. Las copias de la notificación de intención pueden obtenerse en Stefanie Farrington, stefanie.farrington@mass.gov, entre las 9 a. M. a 5 p. M. Lunes-Viernes. Por favor incluya a Alexandra Echandi en su correo electrónico, ale.echandi@mass.gov si require traducción.

F. De acuerdo con el Decreto Ejecutivo de le Mancomunidad de Massachusetts que suspende ciertas disposiciones de la Ley de reuniones abiertas, la audiencia pública se llevará a cabo virtualmente en https://zoom.us/j/6864582044. Si no puede acceder a Internet, puede llamar al 1-929-205-6099, ingresar ID de reunión 686 458 2044 # y usar # como su ID de participante.

G. La información relativa a la fecha y hora de la audiencia pública puede solicitarse a la **Comisión de Conservación de Boston** por correo electrónico a **CC@boston.gov** o llamando al **(617) 635-4416** entre las **9 AM y las 5 PM, de lunes a viernes.**

NOTA: La notificación de la audiencia pública, incluida su fecha, hora y lugar, se publicará en el **Boston Herald** con al menos cinco (5) días por adelantado.

NOTA: La notificación de la audiencia pública, incluida su fecha, hora y lugar, se publicará en www.boston.gov/public-notices y en el Ayuntamiento de Boston con no menos de cuarenta y ocho (48) horas de antelación. Si desea formular comentarios, puede asistir a la audiencia pública o enviarlos por escrito a CC@boston.gov o al Ayuntamiento de Boston, Departamento de Medio Ambiente, Sala 709, 1 City Hall Square, Boston, MA 02201.

NOTA: También puede comunicarse con la Comisión de Conservación de Boston o con la Oficina Regional del Noreste del Departamento de Protección Ambiental para obtener más información sobre esta solicitud o la Ley de Protección de Humedales. Para comunicarse con el DEP, llame a la Región Noreste: (978) 694-3200.

NOTA: si tiene previsto asistir a la audiencia pública y necesita servicios de interpretación, sírvase informar al personal en CC@boston.gov antes de las 12 PM del día anterior a la audiencia.

12 EVERDEAN STREET
12 EVERDEAN ST
DORCHESTER MA 02122

135 MORRISSEY OWNER LLC
ONE POST OFFICE SQ STE 3150
BOSTON MA 02109

227 SAVIN HILL AVENUE REALTY
227 SAVIN HILL AVE
DORCHESTER MA 02125

51 EVERDEAN STREET REALTY
51 EVERDEAN ST
DORCHESTER MA 02122

AGUILAR OSCAR O
157 IVY ST
BROOKLINE MA 02446

ALVARADO MIGUEL A
6 BLANCHE ST
DORCHESTER MA 02122

ANDREYCAK & TOWNSHEND LLC
46 O ST
SOUTH BOSTON MA 02127

AURISE LORA
247 SAVIN HILL AV #3
DORCHESTER MA 02125

AYAAD TAMIR (DBA MISTER T)
35 BROOKS AVE #12A
QUINCY MA 02169

BARRON ANDREA D
296 SAVIN HILL AV #2
DORCHESTER MA 02125

BAYSIDE CLUB HOTEL LLC
150 MOUNT VERNON ST
DORCHESTER MA 02125

BAYSIDE HOLDING LLC
150 MT VERNON ST SUITE 500
BOSTON MA 02125

BAYSIDE MERCHANDISE MART
150 MOUNT VERNON ST #520
DORCHESTER MA 02125

BCSP 2 MORRISSEY PROPERTY
200 STATE ST 5TH FLOOR
BOSTON MA 02109

BLAKE BRIAN
289 SAVIN HILL AV
DORCHESTER MA 02125

BLOOM HENRY
47 EASTERN BLVD
GLASTONBURY CT 06033

BOSTON COLLEGE HIGH
160 WM T MORRISSEY BLVD
DORCHESTER MA 02125

BRETT JAMES T
7 WEDMORE ST
DORCHESTER MA 02125

BROOKS RAYMOND ETAL
26 BLANCHE
DORCHESTER MA 02122

BROTCHIE WILLIAM K
285 MORRISSEY BL
DORCHESTER MA 02125

BUI MYDZUNG
84 EVERDEAN ST
DORCHESTER MA 02122

CABRAL CARLOS E
235 SAVIN HILL AV
DORCHESTER MA 02125

CAHOON GEORGE B JR
257 SAVIN HILL AVENUE
DORCHESTER MA 02125

CANTY PATRICK JAMES
25 BLANCHE ST
BOSTON MA 02122

CARDINALE STEPHEN F
401 WM T MORRISSEY VL
DORCHESTER MA 02125

CARNEY BERNARD T
231 SAVIN HILL AVE
DORCHESTER MA 02125

CARNEY ROBERT
240 SAVIN HILL AV
DORCHESTER MA 02125

CHAU CHOW REAL ESTATE LLC
669 WM T MORRISSEY BL
DORCHESTER MA 02122

CHAU CHOW REAL ESTATE LLC
699 WM T MORRISSEY BL
DORCHESTER MA 02122

CHAU HA K
7 EVERDEAN ST
DORCHESTER MA 02122

CLAM POINT NOMINEE REALTY
64 ASHLAND ST
DORCHESTER MA 02122

COLBEA ENTERPRISES LLC
2050 PLAINFIELD PIKE
CRANSTON RI 02921

COLONETTE ISILDAR
11 BLANCHE ST #2
DORCHESTER MA 02122

CONNOLLY THOMAS F JR
20 EVERDEAN ST
DORCHESTER MA 02122

CONNOLLY THOMAS JR
4 BLANCHE ST
DORCHESTER MA 02122

CROKE ROGER L
273 SAVIN HILL AVE
DORCHESTER MA 02125

CROWELL VIVIAN S
1A HAMPSHIRE RD
FRAMINGHAM MA 01702

DANG TAI V
8 EVERDEAN ST
DORCHESTER MA 02122

DAVIS KHAN-DOHERTY FARIDA
18 FOX POINT RD
DORCHESTER MA 02125

DEABLER KEVIN
237 SAVIN HILL AV
DORCHESTER MA 02125

DECHIARA PAUL F LT
269 SAVIN HILL AV
DORCHESTER MA 02125

DELANEY ELLEN R ETAL
15 BLANCHE
DORCHESTER MA 02122

DELETETSKY MARTIN H
2001 NE 59 CT
FORT LAUDERDALE FL 33308

DEVER BRENDAN P
306 SAVIN HILL AV #11
DORCHESTER MA 02125

DIENER ROBERT B
243A SAVIN HILL AVE
DORCHESTER MA 02125

DO LAM K
16 EVERDEAN ST
DORCHESTER MA 02122

DONOVAN ANDREW M
11 FOX POINT RD
DORCHESTER MA 02125

DOWLING RICHARD J
33 BLANCHE ST
DORCHESTER MA 02122

DOYLE BERNARD
78 EVERDEAN ST
DORCHESTER MA 02122

DUONG ADAM TS
85 EVERDEAN ST
DORCHESTER MA 02122

ELLIS DEAN
74 EVERDEAN ST
DORCHESTER MA 02122

EXPRESSWAY MOTORS LLC
700 MORRISSEY BLVD
DORCHESTER MA 02122

FAMILY NOMINEE REALTY TRUST
2001 NE 59 CT
FORT LAUDERDALE FL 33308

FATA ROBERT J
306 SAVIN HILL AV
DORCHESTER MA 02125

FILOMENO ALEXANDER J
296 SAVIN HILL AV #1
DORCHESTER MA 02125

FLOOD COURTNEY E
299 SAVIN HILL AVE #1
DORCHESTER MA 02125

FOUNTAINE PAUL D
3 BERNICE ST
DORCHESTER MA 02122

FOX POINT CONDO TR
308 SAVIN HILL AV
DORCHESTER MA 02125

FRATTAROLI FRANK N ETAL
68 ASHLAND ST
DORCHESTER MA 02122

FREEPORT REALTY LLC
337 FREEPORT ST
DORCHESTER MA 02122

FROMM WALTER F JR
329 FREEPORT ST
DORCHESTER MA 02122

GALES ANTHONY
306 SAVIN HILL AV #15
DORCHESTER MA 02125

GALLUCIO DOMINIC E TS
2001 NE 59 CT
FORT LAUDERDALE FL 33308

GIORDANI JAMES
10 FOX POINT RD
DORCHESTER MA 02125

HACKETT HARRY M
59 EVERDEAN ST
DORCHESTER MA 02122

HARRIGAN KELLY M
28 EVERDEAN ST
DORCHESTER MA 02122

HASTREITER BRIAN W
92 GRAMPIAN WAY
DORCHESTER MA 02125

HAYES JEANNE M
21 BLANCHE
DORCHESTER MA 02122

HOBBS SARAH THERESA
30 BLANCHE ST
DORCHESTER MA 02122

HOLLAND EDWARD J
81 EVERDEAN ST
DORCHESTER MA 02122

HUTCHINSON EDWARD T
238 SAVIN HILL AV
DORCHESTER MA 02125

JABLONSKI PAUL P
76 EVERDEAN ST
DORCHESTER MA 02122

KAREN R PAVIDIS REVOCABLE
233 SAVIN HILL AVE
DORCHESTER MA 02125

KNASAS ALFRED B ETAL
8 EVANDALE TERR
DORCHESTER MA 02125

KNASAS ALFRED B ETAL
8 EVANDALE TERRACE
DORCHESTER MA 02125

LABORERS LOCAL UNION 223
12A EVERDEAN
DORCHESTER MA 02122

LAFFERTY JOSEPH R
291 SAVIN HILL AV
DORCHESTER MA 02125

LAFFERTY MICHAEL J
300 SAVIN HILL AV
DORCHESTER MA 02125

LAM CHIEU V
306 SAVIN HILL AVE #4
DORCHESTER MA 02125

LAMBERT FERDINAND G TRSTS
735 MORRISSEY BLVD
DORCHESTER MA 02122

LATERMAN BARRY J
225 SAVIN HILL AV
DORCHESTER MA 02125

LE NHUT MINH
325 FREEPORT ST
DORCHESTER MA 02122

LESCINSKAS RONALD
241 SAVIN HILL AV
DORCHESTER MA 02125

LEVY DAVID L
73 WALLIS ROAD
CHESTNUT HILL MA 02467

LYDON MARK
10 OLD COLONY TE
DORCHESTER MA 02125

LYDON PETER
12 BLANCHE ST
DORCHESTER MA 02122

LYNCH JOHN M
63 ASHLAND ST
DORCHESTER MA 02122

MADISON PARTNERS LLC
144 GOULD ST SUITE 152
NEEDHAM HEIGHTS MA 02494

MANSOUR JOHN A
PO BOX 53
EAST BOSTON MA 02128

MASCELLUTI PATRICIA C
251 SAVIN HILL AV
DORCHESTER MA 02125

MASS BAY TRANSPORTATION AUTH
10 PARK PLAZA
BOSTON MA 02116

MCCARTHY ELEANOR M
20 BLANCHE ST
DORCHESTER MA 02122

MCDONOUGH REALTY TRUST
242 SAVIN HILL AVE
DORCHESTER MA 02125

MCGOWAN JAMES
306 SAVIN HILL AV # 14
DORCHESTER MA 02125

MCNALLY MICHAEL D
ONE WESTINGHOUSE PLAZA
BOSTON MA 02136

MEDINA HERNANE
11 EVERDEAN ST
DORCHESTER MA 02122

MILLER DOREEN ELIZABETH
253 SAVIN HILL AV
DORCHESTER MA 02125

MILLER RICHARD H TS
259 SAVIN HILL AVE
DORCHESTER MA 02125

MONTANI CHRISTOPHER J
306 SAVIN HILL AVE #5
DORCHESTER MA 02125

MORIN MASSINO GIACONO
296 SAVIN HILL AV #3
DORCHESTER MA 02125

MORRISSEY HOLDINGS LLC
100 FRANKLIN ST 2ND FLOOR
BOSTON MA 02110

MULLANE NEAL A JR
10 BLANCHE ST
DORCHESTER MA 02122

MURPHY KATHLEEN
75 EVERDEAN ST
DORCHESTER MA 02122

MURRAY CYNTHIA A
223 SAVIN HILL AV
DORCHESTER MA 02125

NATIONAL GRID ENERGY SERVICE
40 SYLVAN RD
WALTHAM MA 02451

NEW CREEK II LLC
3333 NEW HYDE PK RD #100
NEW HYDE PARK NY 11042

NGO HIEP
375 MORRISSEY BL
DORCHESTER MA 02125

NGUYEN ANH
51 GREENWOOD AV
HYDE PARK MA 02136

NGUYEN NINH A
10 GREEN HILL ST
DORCHESTER MA 02122

NGUYEN TONY
399 WM T MORRISSEY BLVD
DORCHESTER MA 02125

NGUYEN TRUC T
89 EVERDEAN ST
DORCHESTER MA 02122

NGUYEN TUAN Q
306 SAVIN HILL AV #10
DORCHESTER MA 02125

NGUYEN VINSON
19-21 EVERDEAN ST
DORCHESTER MA 02122

NGUYEN VU THANH
80 EVERDEAN ST
DORCHESTER MA 02122

NWABINWE GOGO JOE
8 BLANCHE ST
DORCHESTER MA 02122

OUTFRONT MEDIA LLC (LESSEE)
405 LEXINGTON AVE
NEW YORK NY 10174

POB CC 75 MORRISSEY LLC
8 STONY BROOK PL
ARMONK NY 10504

POWERS PATRICIA
239 SAVIN HILL AV
DORCHESTER MA 02125

POWERS ROSEMARY J
243B SAVIN HILL AV
DORCHESTER MA 02125

PURICELLI B CHRISTINE
14 BLANCHE ST
DORCHESTER MA 02122

QIANLONG CRITERION VENTURES
1601 TRAPELO RD SUITE #280
WALTHAM MA 02451

QUINLAN THOMAS F
265 SAVIN HILL AVE
DORCHESTER MA 02125

RASO CHARLES TS
339 FREEPORT ST
DORCHESTER MA 02122

RASO CHARLES TS
645 MORRISSEY BLVD
BOSTON MA 02122

RDM 2004 REVOCABLE TRUST -
299 SAVIN HILL AV
DORCHESTER MA 02125

REARDON ALICE M
2570 N W 112TH AV
CORAL SPRINGS FL 33065

RINELLA ANDREA
245 SAVIN HILL AVE
DORCHESTER MA 02125

RITCHIE HOLLIS W ETAL
306 SAVIN HILL AV #6
DORCHESTER MA 02125

RUBY DANIEL
293 SAVIN HILL AVE
DORCHESTER MA 02125

RUSSELL DEIRDRE
247 SAVIN HILL AV #2
DORCHESTER MA 02125

RUSSELL MATTHEW L
8 FOX POINT RD
DORCHESTER MA 02125

RUSSO MARK
50 EVERDEAN ST
DORCHESTER MA 02122

SALAS FRANCISCO
15 EVERDEAN
DORCHESTER MA 02122

SAVIN HILL YACHT CLB INC
400 WM T MORRISSEY BL
DORCHESTER MA 02125

SEVEN-ELEVEN INC
PO BOX 711
DALLAS TX 75221

SHALLOW KENNETH
27 BLANCHE ST
DORCHESTER MA 02122

SILVEY COREEN M
306 SAVIN HILL AV #3
DORCHESTER MA 02124

SKUDRIS PAUL W
88 ASSABET RD &
QUINCY MA 02169

SKWIERAWSKI DOROTHY M TS
116 VICTORY ROAD
DORCHESTER MA 02122

SKWIERAWSKI JOSEPH P
116 VICTORY RD
DORCHESTER MA 02124

SKWIERAWSKI LORRAINE T TS
112 VICTORY RD
DORCHESTER MA 02125

SLEZAS ROMAS VIKTORAS ETAL
244 SAVIN HILL AVE
DORCHESTER MA 02125

SNYDER VANN J
9 FOX POINT RD
DORCHESTER MA 02125

STANGARONE JESSICA
12 EVERDEAN ST #2
DORCHESTER MA 02122

STRAZZULA MATTHEW J
780 WM T MORRISSEY BLVD
DORCHESTER MA 02122

STRAZZULA MATTHEW J TRSTS
800 W T MORRISSEY BLVD
DORCHESTER MA 02122

STRAZZULA PHILLIP A JR TS
780 MORRISSEY BLVD
DORCHESTER MA 02122

SWEENEY JOHN P
306 SAVIN HILL AVE #7
DORCHESTER MA 02125

THAI NGOAN NGOC
9 GREEN HILL ST
DORCHESTER MA 02122

THOMAS OWEN
2 OLD COLONY TE
DORCHESTER MA 02125

THREE-02-304 SAVIN HILL AV
304 SAVIN HILL AVE
DORCHESTER MA 02125

TOBEY KATHRYN MARY
247 SAVIN HILL AV #1
DORCHESTER MA 02125

TORNEY WILLIAM SAMUEL
19 BLANCHE ST
DORCHESTER MA 02122

TRAN HAI L
55 EVERDEAN ST
DORCHESTER MA 02122

TRAN HOAT TRONG
110 VICTORY RD
DORCHESTER MA 02122

TRAN MICHELLE
82 EVERDEAN ST
DORCHESTER MA 02122

TRAN QUOC
22 BLANCHE ST
DORCHESTER MA 02122

TRAN TUAN
2 BLANCHE ST
DORCHESTER MA 02122

TRUONG NGOC LOAN THI
24 EVERDEAN ST
DORCHESTER MA 02122

TUROLSKI STEFAN
4 EVANDALE TE
DORCHESTER MA 02125

TWO 47 SAVIN HILL AV CONDO
247 SAVIN HILL AV
DORCHESTER MA 02125

TWO 99 SAVIN HILL AV CONDO
2309 SHOREWOOD HILLS AV
HENDERSON NV 89052

TWO-96 SAVIN HILL AV CONDO
42 CHELMSFORD ST #2
DORCHESTER MA 02122

UNIVERSITY OF MASS BLDG AUTH
1 BEACON STREET
BOSTON MA 02108

WALPOLE ROBERT HENRY
277 SAVIN HILL AVE
DORCHESTER MA 02125

WALSH DONALD A ETAL
268 SAVIN HILL AVE
DORCHESTER MA 02125

WARD JAMES C
32 SUNFLOWER RD
HOLBROOK MA 02343

WAROT CELINA
7 EVANDALE TE
DORCHESTER MA 02125

WAROT ZDZISLAW A ETAL
3 EVANDALE TERR
DORCHESTER MA 02125

WASH ALLISON
12 EVERDEAN ST #1
DORCHESTER MA 02122

WHALEN DOUGLAS J
249 SAVIN HILL AV
DORCHESTER MA 02125

WHITE EILEEN F
63 EVERDEAN ST
DORCHESTER MA 02122

WILSON ELIZABETH M
243 SAVIN HILL AV
DORCHESTER MA 02125

WOJCIK MICHALINA
257 SAVIN HILL AV
DORCHESTER MA 02125

ZHAO REVOCABLE TRUST
34 BLANCHE ST
DORCHESTER MA 02122

ZWEIG JON
302 SAVIN HILL AV #1
DORCHESTER MA 02125

ZWEIG JONATHAN L
555 S BARRINGTON AV #317
LOS ANGELES CA 90049

ZWEIG KENNETH E
304 SAVIN HILL AV #2
DORCHESTER MA 02125

City of Boston
Environment

City of Boston
Mayor Martin J. Walsh

EXTENSION FORM

The undersigned hereby allows the **Boston Conservation Commission** an extension of time, beyond the statutory limit, to review an application or issue a final decision under the Massachusetts Wetlands Protection Act, M.G.L. Chapter 131, Section 40, and the Boston Wetlands Ordinance, Boston City Code, Ordinances, Chapter 7-1.4d during the state of emergency declared by the Governor on March 10, 2020.

Applicant:

Jason	Santos	DCR
a. First Name	b. Last Name	c. Company

164 Pond Street
d. Mailing Address

Stoneham	MA	02180
e. City/Town	f. State	g. Zip Code

508-414-2924		jason.santos@mass.gov
h. Phone Number	i. Fax Number	j. Email address

Jason A Santos
Signature of Applicant

05/04/21
Date

Property Owner (if different):

Priscilla	Geigis	Deputy Commissioner, DCR
a. First Name	b. Last Name	c. Company

251 Causeway St. Ste. 600
d. Mailing Address

Boston	MA	02114
e. City/Town	f. State	g. Zip Code

		priscilla.geigis@mass.gov
h. Phone Number	i. Fax Number	j. Email address

Priscilla Geigis
Signature of Property Owner (if different)

5-4-21
Date

Applications will only be accepted when submitted with a properly executed Extension Form.

Dear Boston Conservation Commission,

I, Alexandra (Ale) Echandi-Rodriguez, hereby declare that I am fluent in Spanish and English. I hereby certify that I have translated/verified the Notification to Abutters form which is attached to this Affidavit. I further certify that, to the best of my knowledge, the attached document(s) in English is true and accurate translation of the attached document in Spanish.

AEchandi
_____

Alexandra (Ale) Echandi-Rodriguez
5/3/2021

Stormwater Report

Morrissey Boulevard reclaim and repave
Morrissey Boulevard, Boston, MA

May 7, 2021

Applicant: Massachusetts Department of Conservation and Recreation (operator)/Massachusetts Department of Conservation and Recreation (owner)

Project Address: Morrissey Boulevard, Boston, MA

Representative: HDR Engineering, Inc.

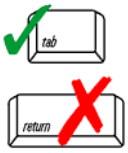
Registered Professional Engineer: Arthur Bonney, PE LEED AP

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

Checklist for Stormwater Report

A. Introduction

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



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 8[2]
- 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.

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

Checklist for Stormwater Report

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.

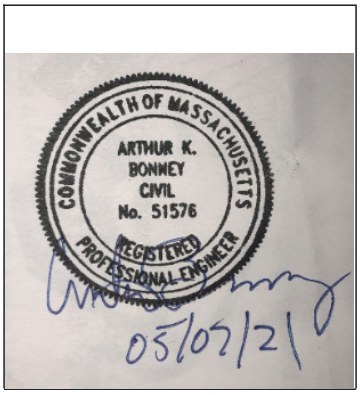
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the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



05 07 2021

Signature and Date

Checklist

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

☐ New development

☒ Redevelopment

☐ Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

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): Resurfacing existing pavement with no widening of roadway box

Standard 1: No New Untreated Discharges

- ☒ 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.

Checklist for Stormwater Report

Checklist (continued)

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 pre-development 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[1]

☐ 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.

[1] 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 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.

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.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

☐ The BMP is sized (and calculations provided) based on:

- ☐ The ½" or 1" 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.

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.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the 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.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

☐ 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;
- ☐ Description and delineation of public safety features;
- ☐ Estimated operation and maintenance budget; and
- ☐ 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;
- ☐ 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;

☐ NO Illicit Discharge Compliance Statement is attached but will be submitted ***prior to*** the discharge of any stormwater to post-construction BMPs.

Morrissey Boulevard Maintenance/Resurfacing Project
WPA Notice of Intent
Stormwater Memorandum

Applicant:	Massachusetts Department of Conservation and Recreation (operator)/Massachusetts Department of Conservation and Recreation (owner)
Project Address:	Morrissey Boulevard, Boston, MA
Representative:	HDR Engineering, Inc.

Registered Professional Engineer: Arthur Bonney, PE LEED AP

Morrissey Boulevard Maintenance/Resurfacing Project is a Limited Project as defined in 310 CMR 10.24 (7)(c) as a project that constitutes "Maintenance and improvement of existing public roadways, but limited to widening less than a single lane, adding shoulders, correcting substandard intersections, and improving drainage systems." and is also a Redevelopment Project as defined in 310 CMR 10.04 Redevelopment (b) as a project that constitutes "development, rehabilitation, expansion and phased projects on previously developed sites provided the redevelopment results in no net increase in impervious area." The purpose of this project is to support public safety and facilitate vehicular transportation. The project scope is a maintenance project to resurface Morrissey Boulevard within two areas, one located north of Beades Bridge and the other located south of Beades Bridge. The area to the south of Beades bridge is defined by Tenean Street to the south and Freeport Street to the north. The area north of Beades Bridge is defined to the south by Bianculli Boulevard and to the north by Kosciuszao Circle.

The construction sequence for the project will be prosecuted to minimize disturbance to the surrounding area. The project will install appropriate sediment and erosion controls, mill out the existing pavement using a cold-planing machine with a smaller ride-on grinding machine to remove approximately 2 inches of paved surface, then prepare the surface to receive hot mix asphalt, repave with asphalt, then later add thermoplastic pavement markings to the newly paved surface. All work will proceed within the existing roadway footprint and no widening is proposed.

The Limited Redevelopment Project will maintain the existing impervious area and not increase impervious area.

This memorandum addresses the stormwater standards as described in 310 CMR 10.05(6)(k)-(q) as a requirement of the Notice of Intent and demonstrates to the greatest extent practicable, compliance with Massachusetts Department of Environmental Protection (DEP) Stormwater Management Policy. A

long-term pollution prevention plan in accordance with Standards 4 through 6 will not be required as those standards are not applicable for this project.

Standard 1 - Stormwater Discharges

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

No new untreated stormwater outfalls or discharges are proposed for the project. This project meets the standard.

Standard 2 - Stormwater Discharge Rates

> *"Stormwater management systems must be designed so that the post-development peak discharge rates do not exceed pre-development peak discharge rates."*

The Limited Redevelopment Project will maintain the existing impervious area (no net increase or decrease). Post-construction peak runoff rates will be **equal to** the pre-construction runoff rates. Post-construction runoff volume will be **equal to** the pre-construction runoff volume. This project meets the standard.

Table 1 – Peak Flow and Volume Comparison

	PRE-DEVELOPMENT		POST-DEVELOPMENT		DELTA	
Return Period (years)	Peak Flow (cfs)	Volume (cf)	Peak Flow (cfs)	Volume (cf)	Peak Flow (cfs)	Volume (cf)
Design Area: North Section of Project						
2 Year	29.52	98,815	29.52	98,815	0.00	0
10 Year	42.72	145,312	42.72	145,312	0.00	0
25 Year	51.18	175,235	51.18	175,235	0.00	0
Design Area: South Section of Project						
2 Year	18.03	60,341	18.03	60,341	0.00	0
10 Year	26.09	88,735	26.09	88,735	0.00	0
25 Year	31.25	107,008	31.25	107,008	0.00	0

Note: The groundcover analysis used to determine the stormwater peak flow and runoff volumes only took into account the actual paving limits which are the limits of work. No net increase in impervious area is proposed for this Limited Redevelopment Project.

Standard 3 - Groundwater Recharge

> *"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 Redevelopment Project will have no net increase in impervious area. As a result, this project will maintain current groundwater recharge conditions. A large portion of the project area is within the resource area for Land Subject to Coastal Storm Flowage and that area does not require groundwater recharge. No new recharge BMP are required.

Standard 4 - 80% Total Suspended Solids Removal

"Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS)"

The project is a Limited Redevelopment Project. As a project intended to replace a portion of an existing impervious surface, no new stormwater management systems are proposed. The existing catch basins will continue to be utilized for managing stormwater runoff based on their existing condition.

Standard 5 - Discharge from Areas with Higher Pollutant Loads

"For land uses with higher 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, snow melt, and stormwater runoff, the proponent shall use the specific structural stormwater BMP's determined by the Department to but suitable for such uses as provided in the Massachusetts Stormwater Handbook."

This project site is not considered a land use with higher potential pollutant loads as defined in 310 CMR 10.04.

Standard 6 - Discharge to Critical Areas

"Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply and stormwater discharge near or to any other critical area, require the use of 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."

This project is not located in an area that discharges to a Wellhead Protection Zone II or Interim Wellhead Protection Area of a public water supply.

Standard 7 - Redevelopment Sites

> *"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 Standard 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."*

The project is a Limited Redevelopment Project. It constitutes a resurfacing of existing pavement surfaces for maintenance purposes. Existing stormwater conditions will be perpetuated. As a result, there are no practicable measures required to be implemented to meet the stormwater management standards. The project meets the standard.

Standard 8 - Erosion and Sedimentation Control

> *"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."*

The project is a Limited Redevelopment Project. It constitutes a resurfacing of existing pavement surfaces for maintenance purposes. Appropriate erosion and sediment controls will be implemented for the project including catch basin inlet protection.

Standard 9 - Operation & Maintenance Plan

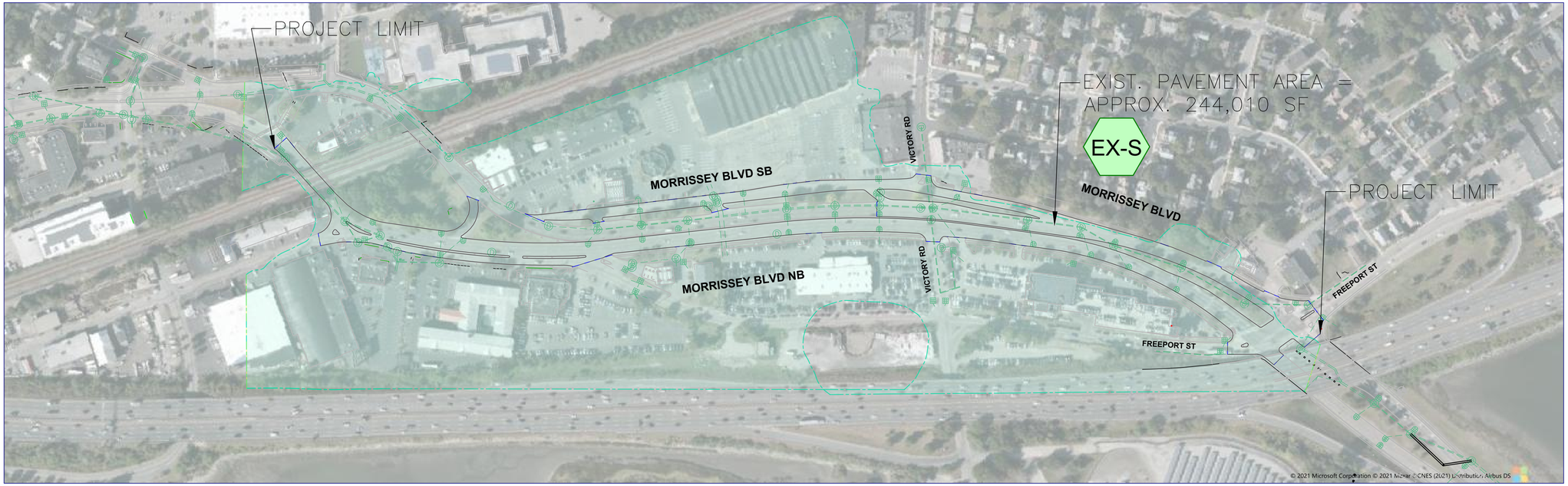
> *"A long-term operation and maintenance plan shall be developed and implemented to ensure that stormwater management systems function as designed."*

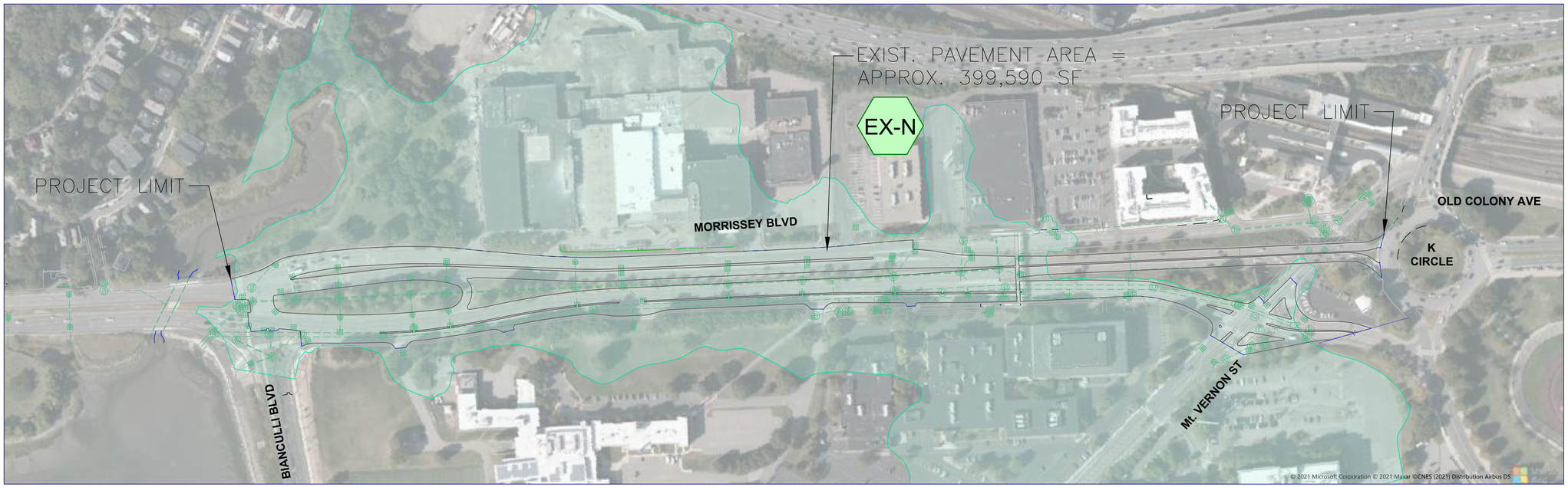
As a project intended to resurface an existing paved surface within the same existing footprint, no new water management system will be created that would require any long-term operation and maintenance plan. The facility will be owned and maintained by Massachusetts Department of Conservation and Recreation .

Standard 10 – Prohibition of Illicit Discharges

> *"All illicit discharges to the stormwater management system are prohibited."*

There is no proposed stormwater management system on the project site that would receive any Illicit discharges. The project meets the standard. An illicit discharge statement is not provided in the stormwater report materials.





N

COMMONWEALTH OF MASSACHUSETTS
ARTHUR K. BONNEY
CIVIL
No. 51576
REGISTERED PROFESSIONAL ENGINEER
05/07/21

FEMA FLOOD BOUNDARY

PROJECT LIMITS

0 150 300 450 600
SCALE: 1" = 150'

MAY 07, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: AB

CHECKED BY: HN

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MASSACHUSETTS 02110-2378
(617) 357-7700

PROJECT TITLE:
MORRISSEY BOULEVARD
MAINTENANCE/RESURFACING
PROJECT

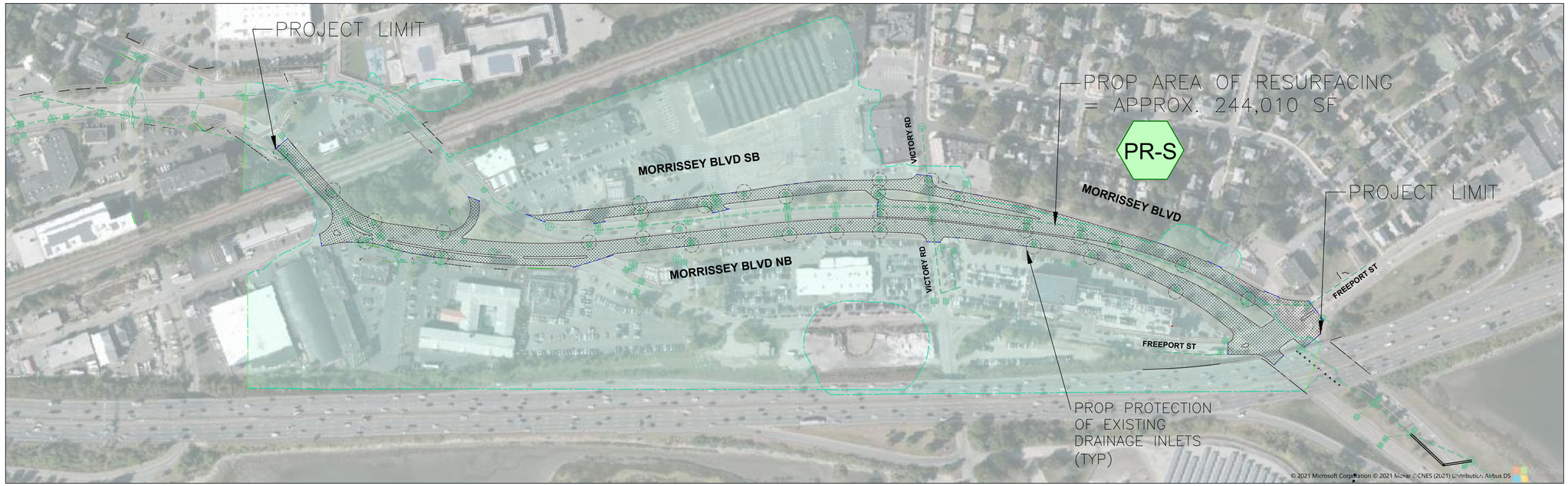
CITY/TOWN: BOSTON

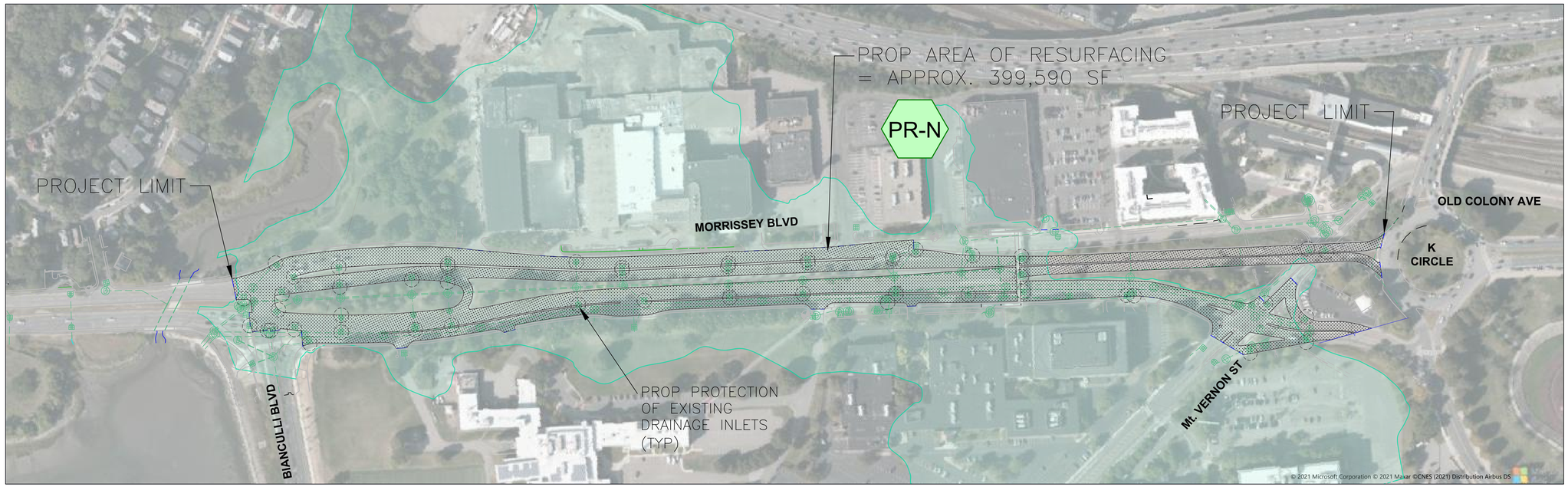
DRAWING TITLE: PRE CONDITION

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: PRE-1

SHEET NO.:





N

COMMONWEALTH OF MASSACHUSETTS
ARTHUR K. BONNEY
CIVIL
No. 51576
REGISTERED PROFESSIONAL ENGINEER
05/07/21

FEMA FLOOD BOUNDARY

PROJECT LIMITS

PROP. PVMT RESURFACING

0 150 300 450 600
SCALE: 1" = 150'

MAY 07, 2021

REV.	DATE:	DESCRIPTION	SHEET #:

dcr Massachusetts

DESIGNER: AB

CHECKED BY: HN

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MASSACHUSETTS 02110-2378
(617) 357-7700

PROJECT TITLE:
MORRISSEY BOULEVARD
MAINTENANCE/RESURFACING
PROJECT

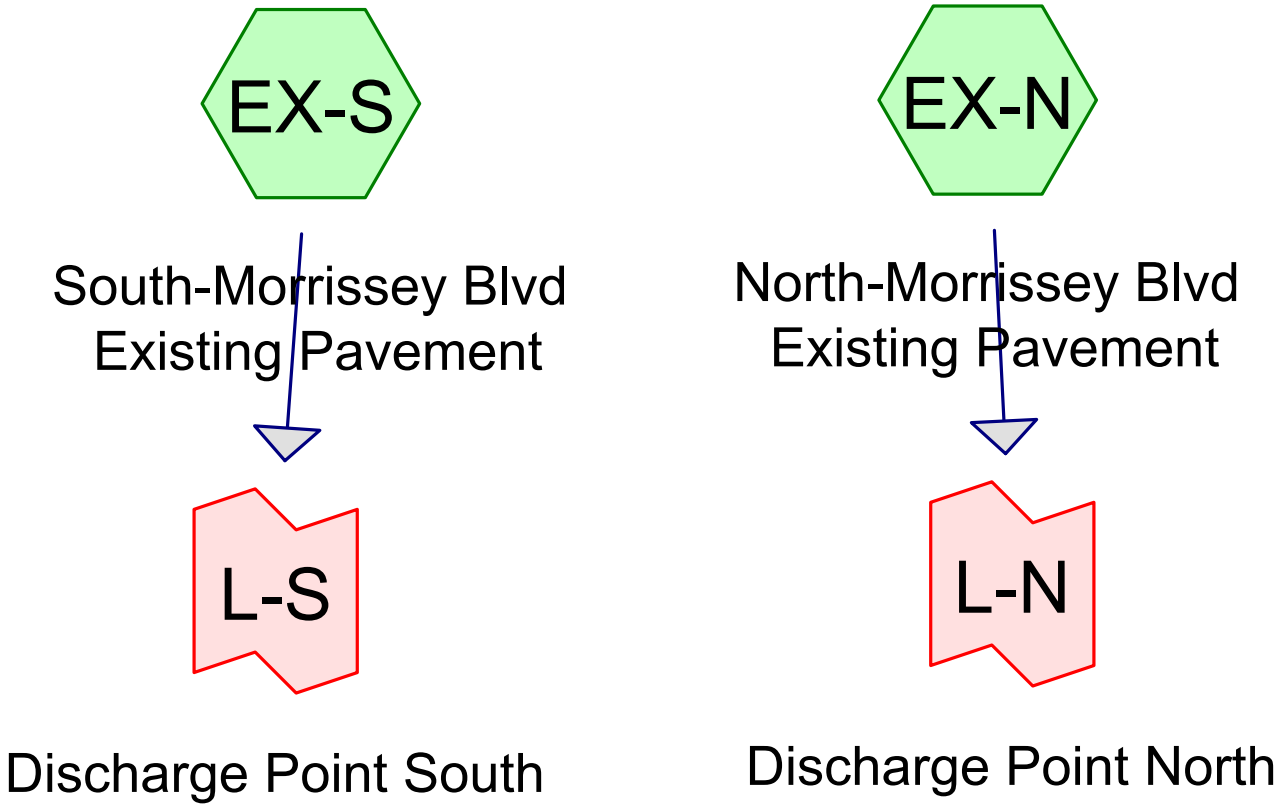
CITY/TOWN: BOSTON

DRAWING TITLE: POST CONDITION

PROJECT NO.: P21-XXXX-XXX

DRAWING NO.: POST-1

SHEET NO.:



Subcat Reach Pond Link

Routing Diagram for MorrisseyBlvdRepave_PRE
Prepared by HDR, Inc, Printed 5/7/2021

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
399,590	98	North Paved Area (EX-N)
244,010	98	South Paved Area (EX-S)
643,600	**98**	**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment EX-N: North-Morrissey Runoff Area=399,590 sf 100.00% Impervious Runoff Depth=2.97"
Tc=5.0 min CN=98 Runoff=29.52 cfs 98,815 cf

Subcatchment EX-S: South-Morrissey Runoff Area=244,010 sf 100.00% Impervious Runoff Depth=2.97"
Tc=5.0 min CN=98 Runoff=18.03 cfs 60,341 cf

Link L-N: Discharge Point North Inflow=29.52 cfs 98,815 cf
Primary=29.52 cfs 98,815 cf

Link L-S: Discharge Point South Inflow=18.03 cfs 60,341 cf
Primary=18.03 cfs 60,341 cf

Total Runoff Area = 643,600 sf Runoff Volume = 159,156 cf Average Runoff Depth = 2.97"
0.00% Pervious = 0 sf 100.00% Impervious = 643,600 sf

Summary for Subcatchment EX-N: North-Morrissey Blvd Existing Pavement

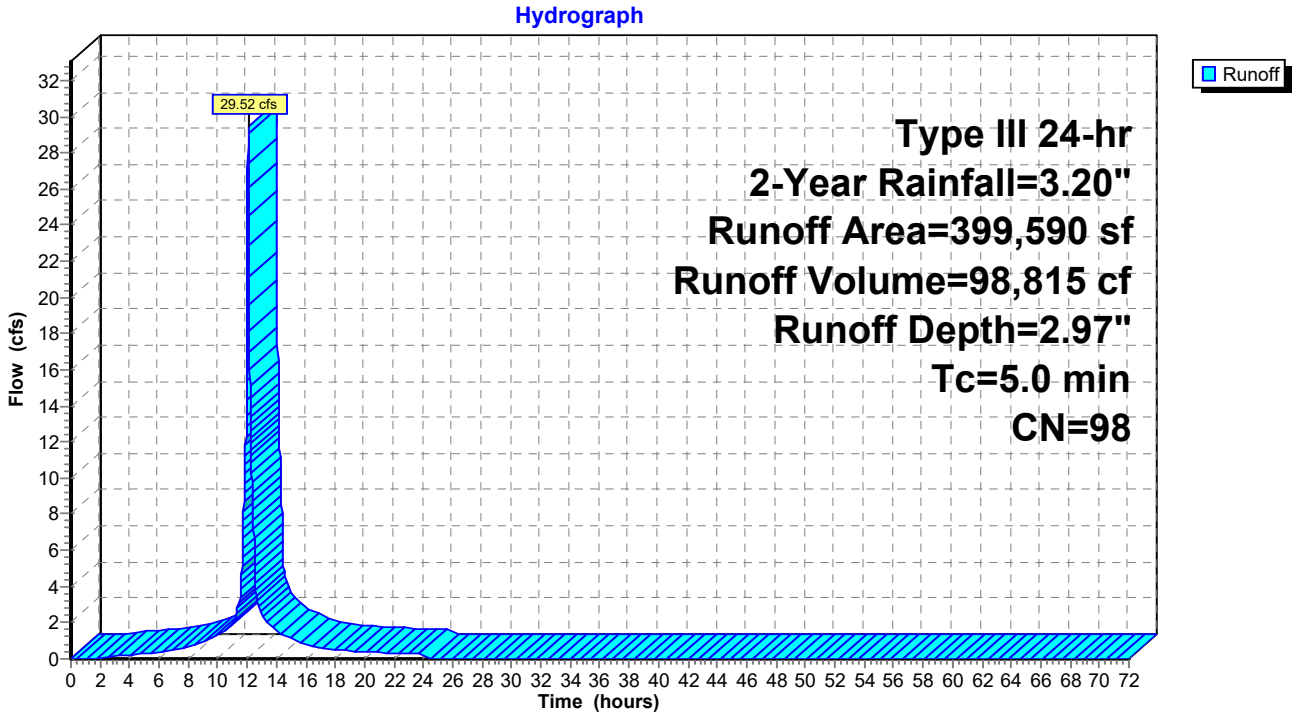
Runoff = 29.52 cfs @ 12.07 hrs, Volume= 98,815 cf, Depth= 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

	Area (sf)	CN	Description
*	399,590	98	North Paved Area
	399,590		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment EX-N: North-Morrissey Blvd Existing Pavement



Summary for Subcatchment EX-S: South-Morrissey Blvd Existing Pavement

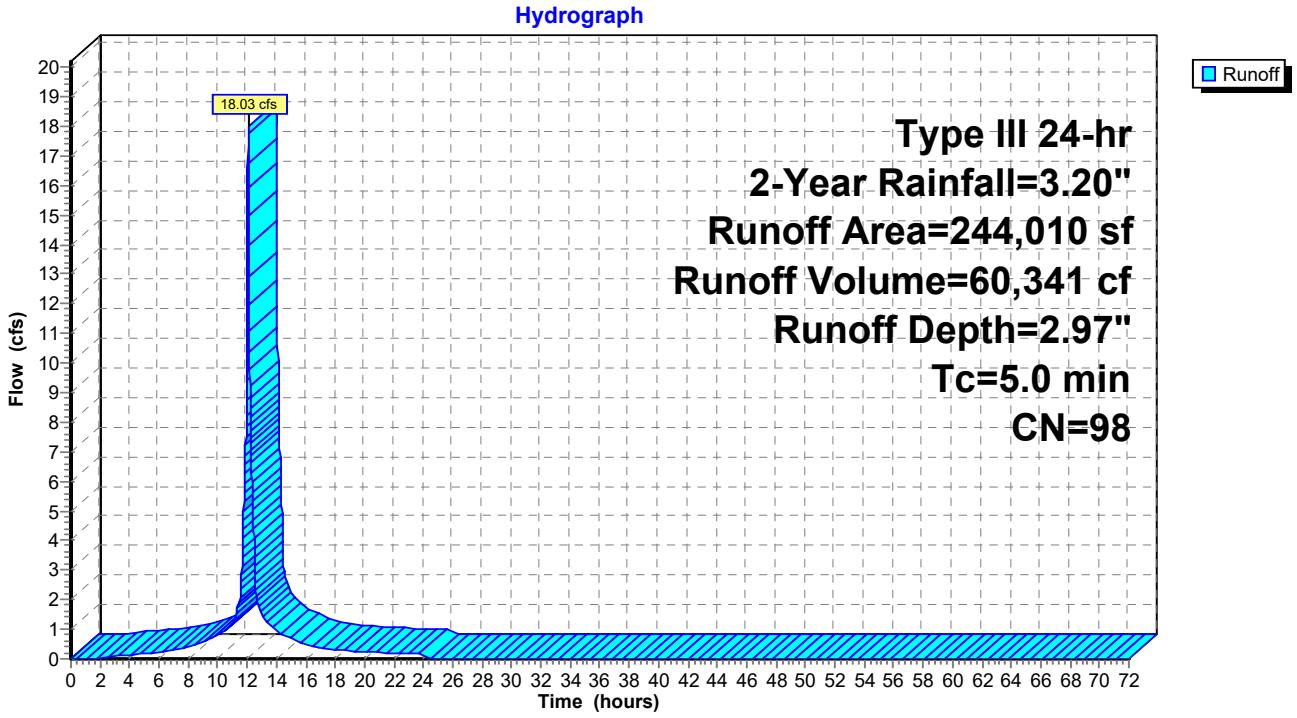
Runoff = 18.03 cfs @ 12.07 hrs, Volume= 60,341 cf, Depth= 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

	Area (sf)	CN	Description
*	244,010	98	South Paved Area
	244,010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment EX-S: South-Morrissey Blvd Existing Pavement

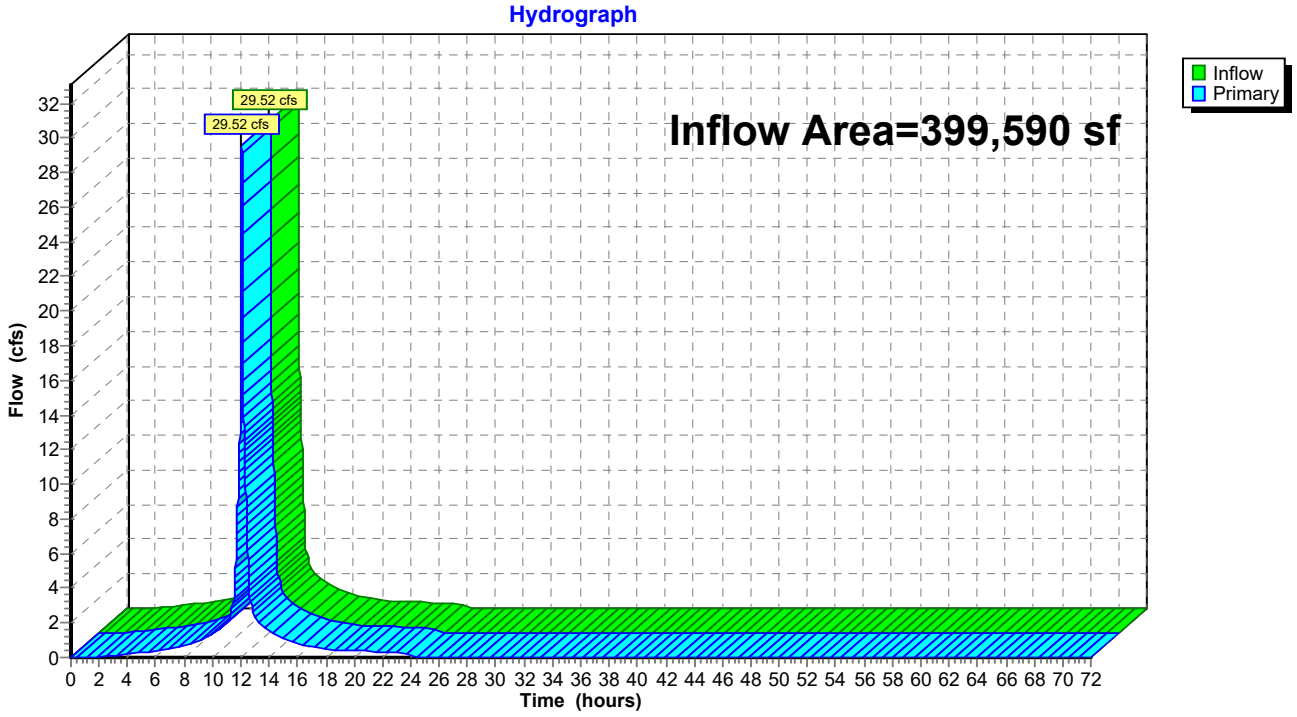


Summary for Link L-N: Discharge Point North

Inflow Area = 399,590 sf,100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 29.52 cfs @ 12.07 hrs, Volume= 98,815 cf
Primary = 29.52 cfs @ 12.07 hrs, Volume= 98,815 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-N: Discharge Point North

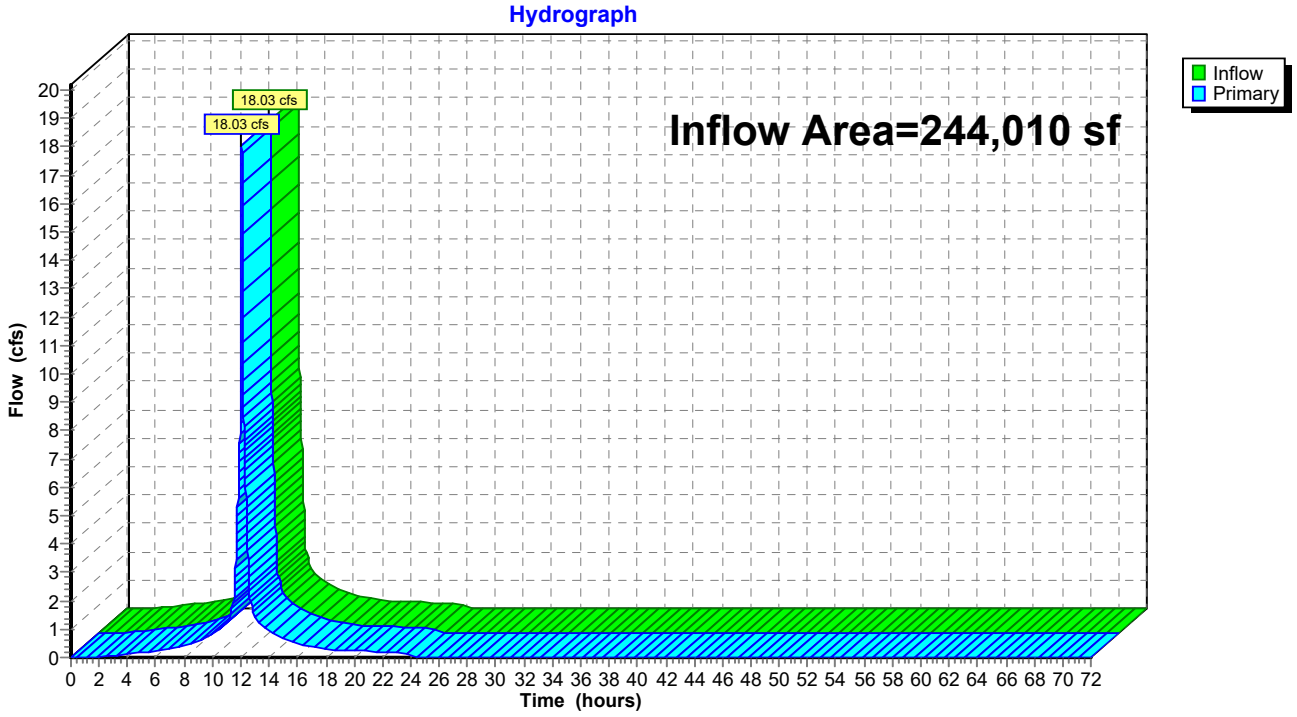


Summary for Link L-S: Discharge Point South

Inflow Area = 244,010 sf,100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 18.03 cfs @ 12.07 hrs, Volume= 60,341 cf
Primary = 18.03 cfs @ 12.07 hrs, Volume= 60,341 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-S: Discharge Point South



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment EX-N: North-Morrissey Runoff Area=399,590 sf 100.00% Impervious Runoff Depth=4.36"
Tc=5.0 min CN=98 Runoff=42.72 cfs 145,312 cf

Subcatchment EX-S: South-Morrissey Runoff Area=244,010 sf 100.00% Impervious Runoff Depth=4.36"
Tc=5.0 min CN=98 Runoff=26.09 cfs 88,735 cf

Link L-N: Discharge Point North Inflow=42.72 cfs 145,312 cf
Primary=42.72 cfs 145,312 cf

Link L-S: Discharge Point South Inflow=26.09 cfs 88,735 cf
Primary=26.09 cfs 88,735 cf

Total Runoff Area = 643,600 sf Runoff Volume = 234,048 cf Average Runoff Depth = 4.36"
0.00% Pervious = 0 sf 100.00% Impervious = 643,600 sf

Summary for Subcatchment EX-N: North-Morrissey Blvd Existing Pavement

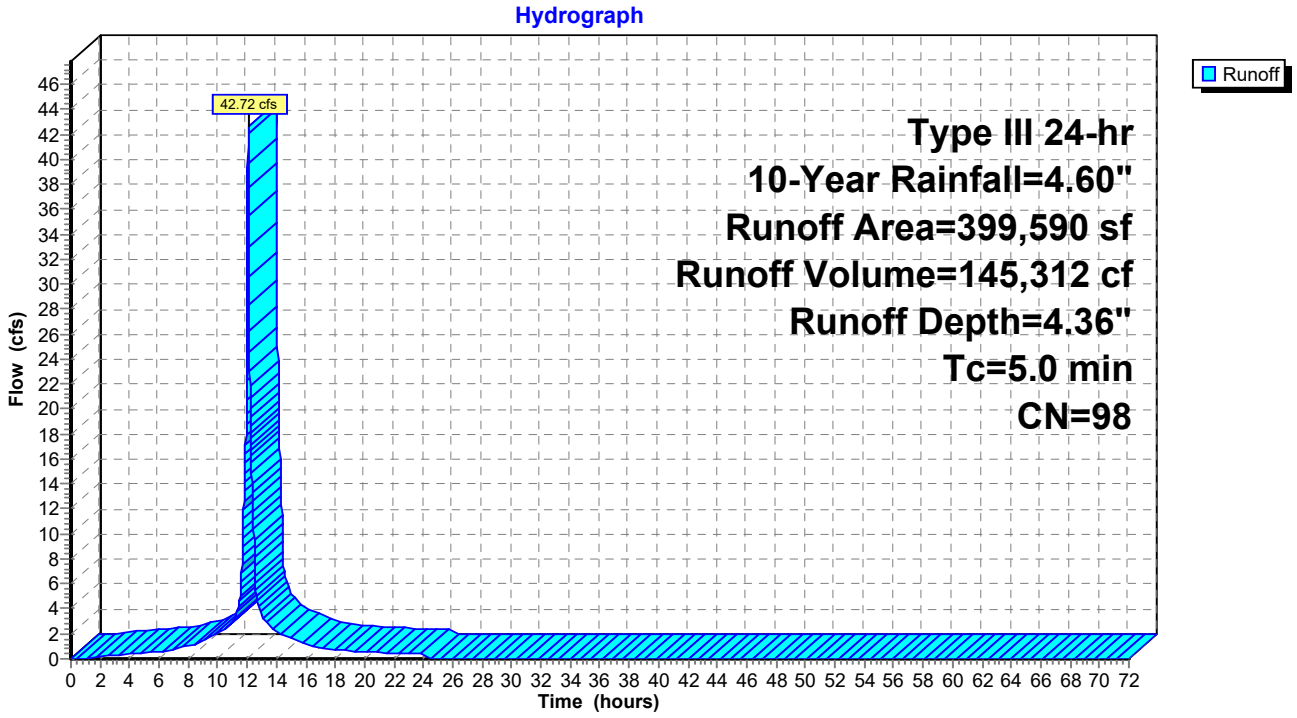
Runoff = 42.72 cfs @ 12.07 hrs, Volume= 145,312 cf, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=4.60"

	Area (sf)	CN	Description
*	399,590	98	North Paved Area
	399,590		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment EX-N: North-Morrissey Blvd Existing Pavement



Summary for Subcatchment EX-S: South-Morrissey Blvd Existing Pavement

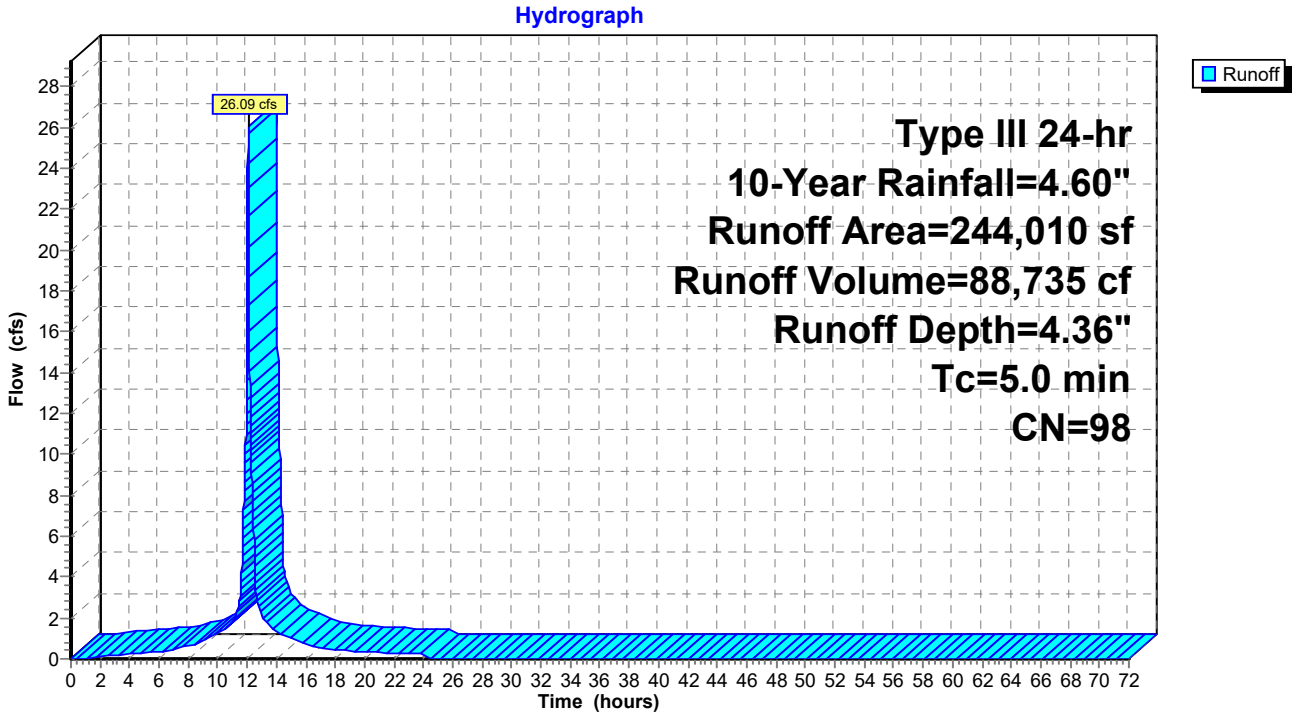
Runoff = 26.09 cfs @ 12.07 hrs, Volume= 88,735 cf, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=4.60"

	Area (sf)	CN	Description
*	244,010	98	South Paved Area
	244,010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment EX-S: South-Morrissey Blvd Existing Pavement

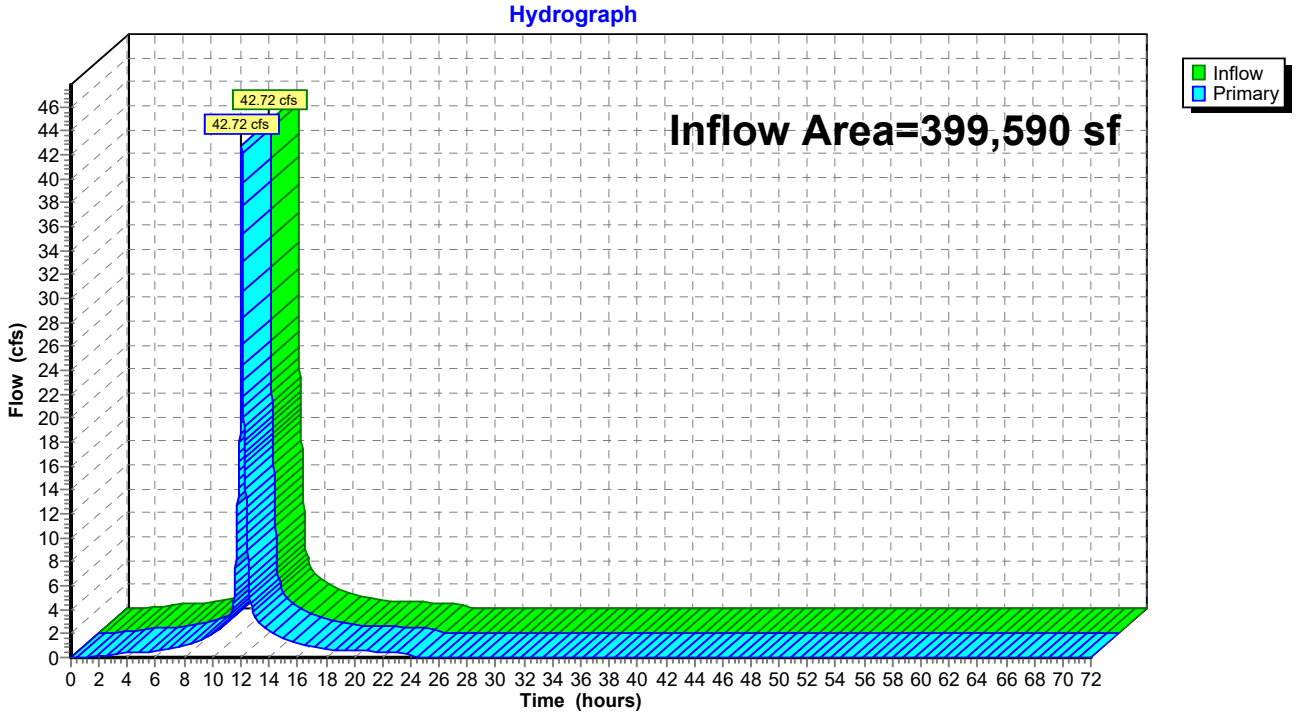


Summary for Link L-N: Discharge Point North

Inflow Area = 399,590 sf,100.00% Impervious, Inflow Depth = 4.36" for 10-Year event
Inflow = 42.72 cfs @ 12.07 hrs, Volume= 145,312 cf
Primary = 42.72 cfs @ 12.07 hrs, Volume= 145,312 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-N: Discharge Point North

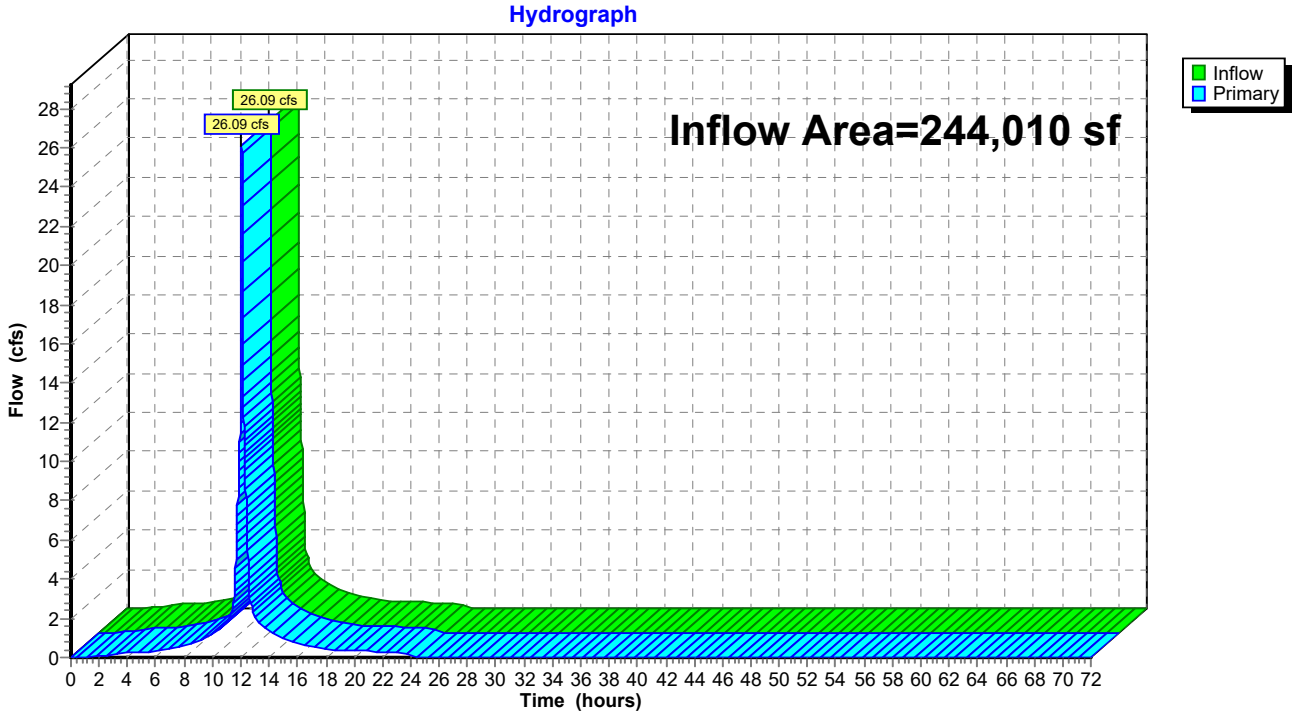


Summary for Link L-S: Discharge Point South

Inflow Area = 244,010 sf,100.00% Impervious, Inflow Depth = 4.36" for 10-Year event
Inflow = 26.09 cfs @ 12.07 hrs, Volume= 88,735 cf
Primary = 26.09 cfs @ 12.07 hrs, Volume= 88,735 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-S: Discharge Point South



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment EX-N: North-Morrissey Runoff Area=399,590 sf 100.00% Impervious Runoff Depth=5.26"
Tc=5.0 min CN=98 Runoff=51.18 cfs 175,235 cf

Subcatchment EX-S: South-Morrissey Runoff Area=244,010 sf 100.00% Impervious Runoff Depth=5.26"
Tc=5.0 min CN=98 Runoff=31.25 cfs 107,008 cf

Link L-N: Discharge Point North Inflow=51.18 cfs 175,235 cf
Primary=51.18 cfs 175,235 cf

Link L-S: Discharge Point South Inflow=31.25 cfs 107,008 cf
Primary=31.25 cfs 107,008 cf

Total Runoff Area = 643,600 sf Runoff Volume = 282,243 cf Average Runoff Depth = 5.26"
0.00% Pervious = 0 sf 100.00% Impervious = 643,600 sf

Summary for Subcatchment EX-N: North-Morrissey Blvd Existing Pavement

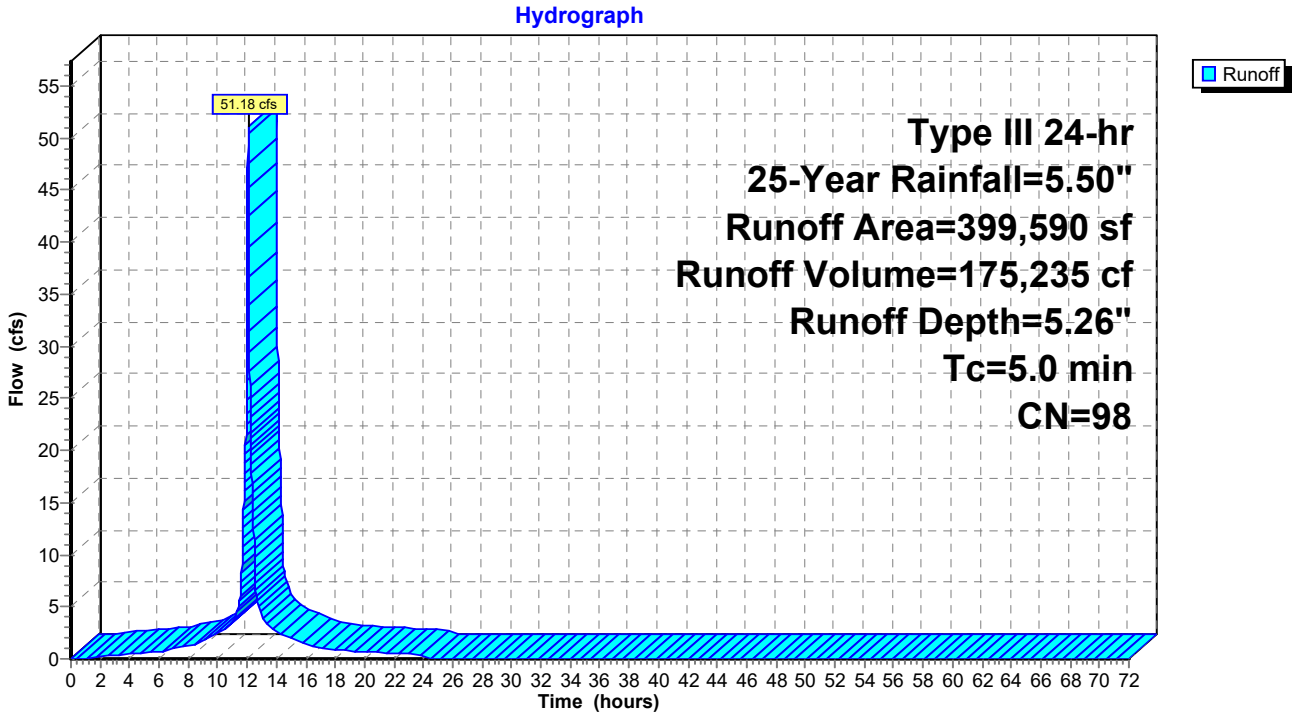
Runoff = 51.18 cfs @ 12.07 hrs, Volume= 175,235 cf, Depth= 5.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=5.50"

	Area (sf)	CN	Description
*	399,590	98	North Paved Area
	399,590		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment EX-N: North-Morrissey Blvd Existing Pavement



Summary for Subcatchment EX-S: South-Morrissey Blvd Existing Pavement

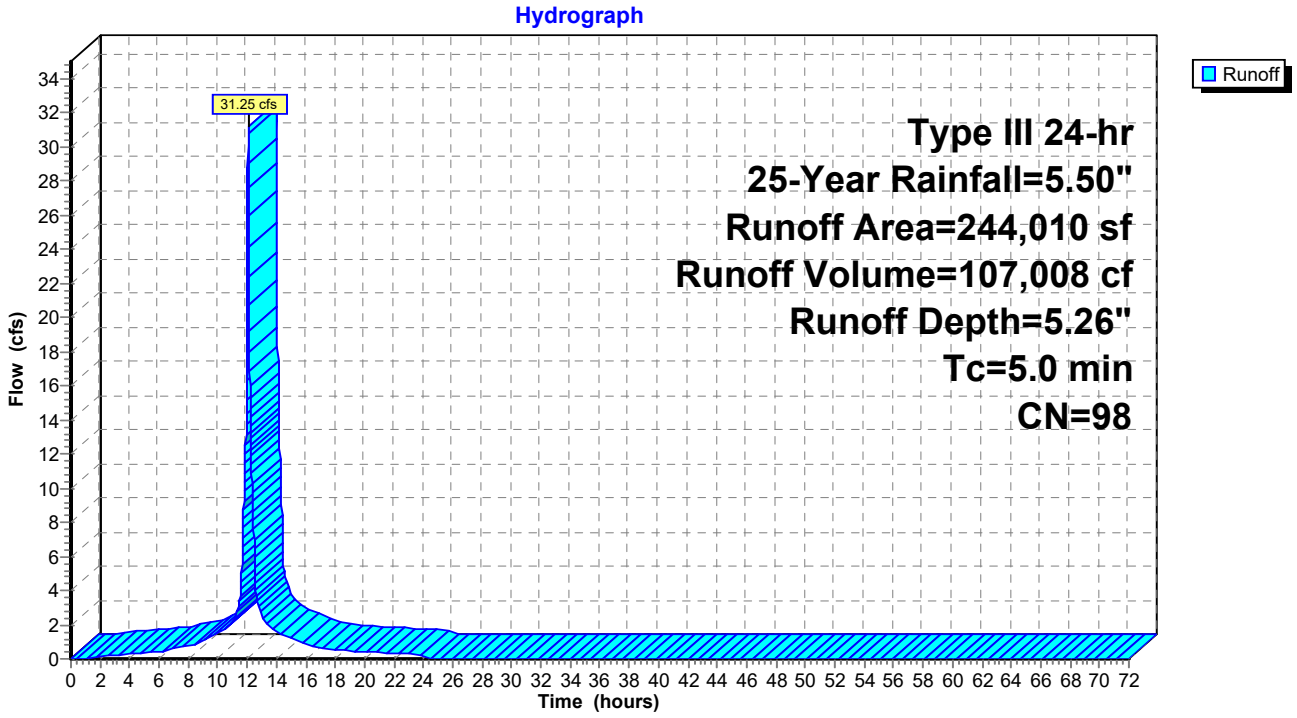
Runoff = 31.25 cfs @ 12.07 hrs, Volume= 107,008 cf, Depth= 5.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=5.50"

	Area (sf)	CN	Description
*	244,010	98	South Paved Area
	244,010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment EX-S: South-Morrissey Blvd Existing Pavement

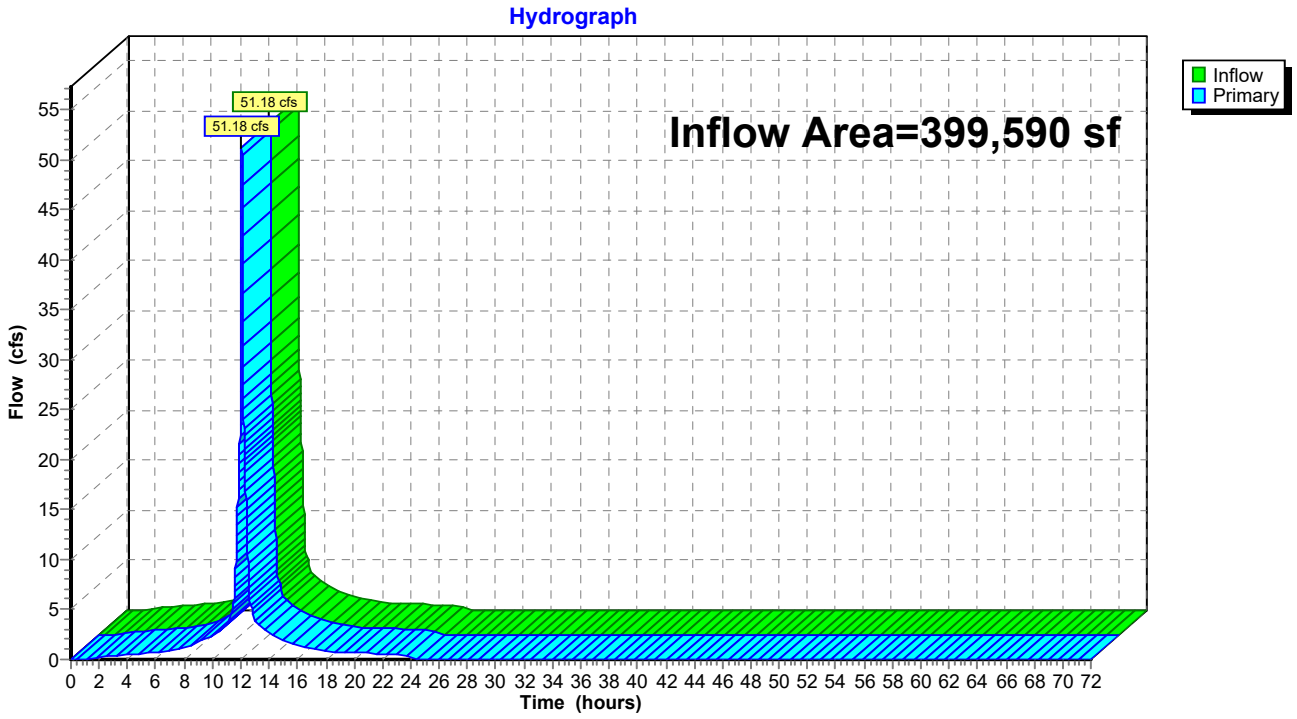


Summary for Link L-N: Discharge Point North

Inflow Area = 399,590 sf,100.00% Impervious, Inflow Depth = 5.26" for 25-Year event
Inflow = 51.18 cfs @ 12.07 hrs, Volume= 175,235 cf
Primary = 51.18 cfs @ 12.07 hrs, Volume= 175,235 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-N: Discharge Point North

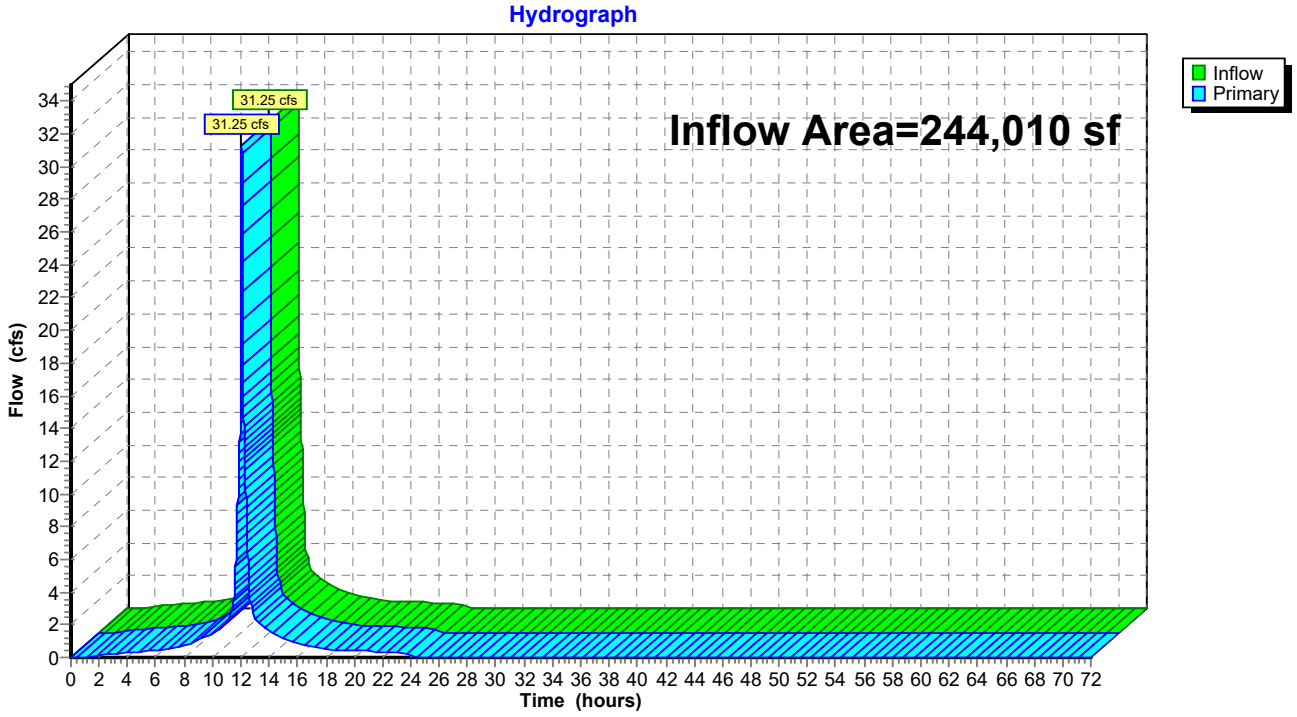


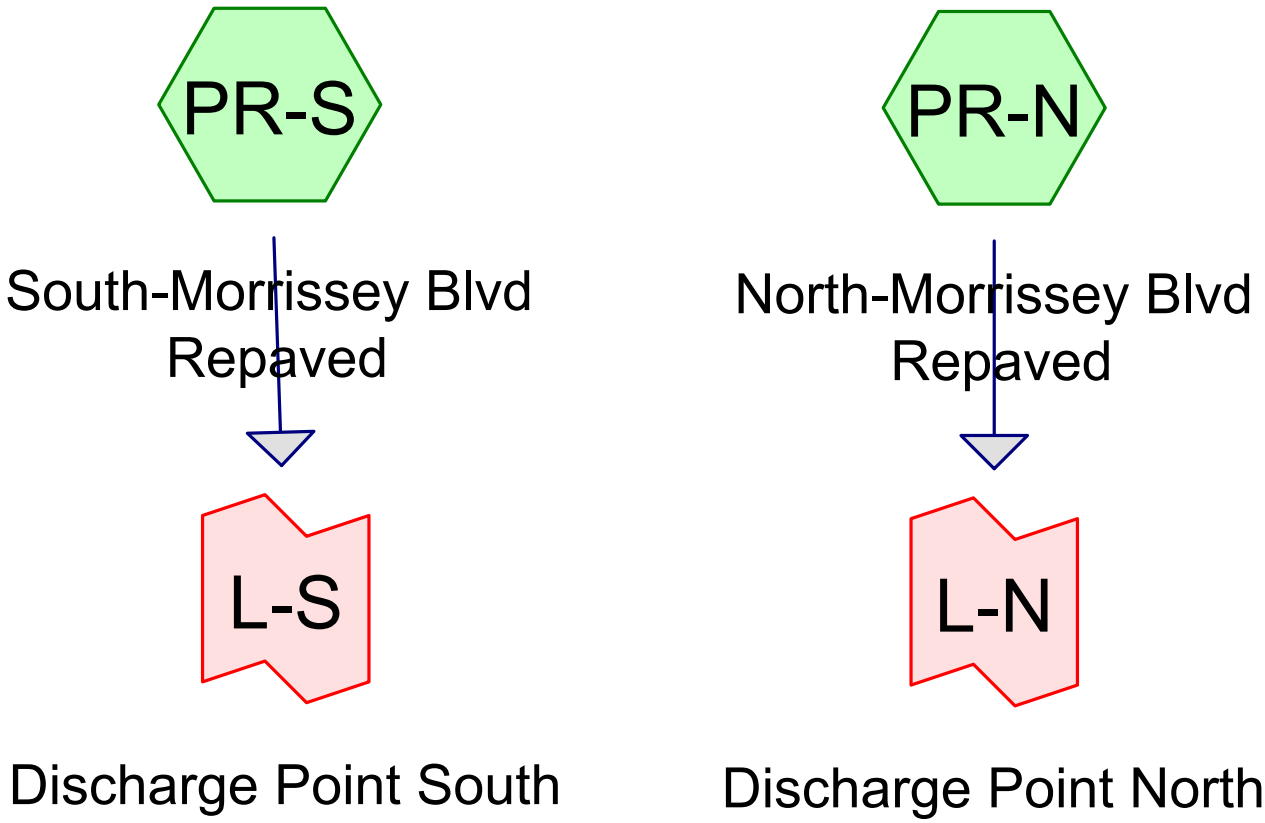
Summary for Link L-S: Discharge Point South

Inflow Area = 244,010 sf,100.00% Impervious, Inflow Depth = 5.26" for 25-Year event
Inflow = 31.25 cfs @ 12.07 hrs, Volume= 107,008 cf
Primary = 31.25 cfs @ 12.07 hrs, Volume= 107,008 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-S: Discharge Point South





Subcat Reach Pond Link

Routing Diagram for MorrisseyBlvdRepave_POST
Prepared by HDR, Inc, Printed 5/7/2021

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
399,590	98	North Paved Area (PR-N)
244,010	98	South Paved Area (PR-S)
643,600	**98**	**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PR-N: North-Morrissey Runoff Area=399,590 sf 100.00% Impervious Runoff Depth=2.97"
Tc=5.0 min CN=98 Runoff=29.52 cfs 98,815 cf

Subcatchment PR-S: South-Morrissey Runoff Area=244,010 sf 100.00% Impervious Runoff Depth=2.97"
Tc=5.0 min CN=98 Runoff=18.03 cfs 60,341 cf

Link L-N: Discharge Point North Inflow=29.52 cfs 98,815 cf
Primary=29.52 cfs 98,815 cf

Link L-S: Discharge Point South Inflow=18.03 cfs 60,341 cf
Primary=18.03 cfs 60,341 cf

Total Runoff Area = 643,600 sf Runoff Volume = 159,156 cf Average Runoff Depth = 2.97"
0.00% Pervious = 0 sf 100.00% Impervious = 643,600 sf

Summary for Subcatchment PR-N: North-Morrissey Blvd Repaved

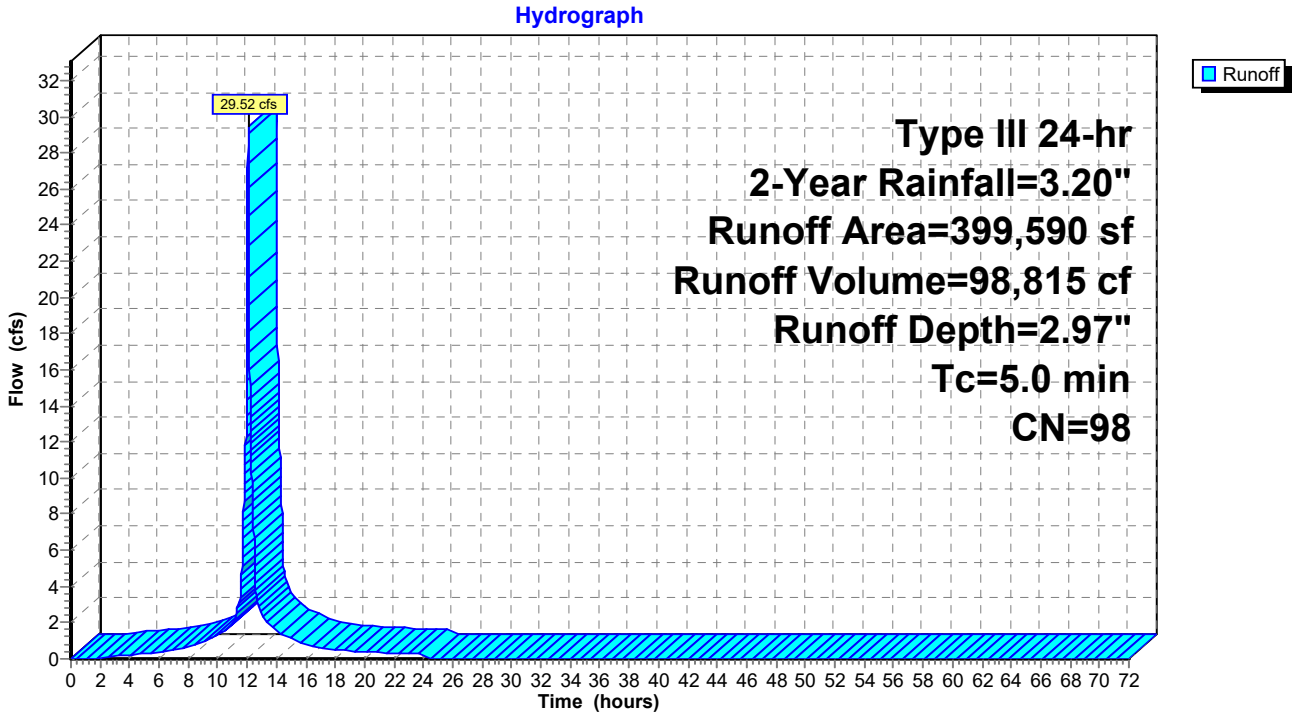
Runoff = 29.52 cfs @ 12.07 hrs, Volume= 98,815 cf, Depth= 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

	Area (sf)	CN	Description
*	399,590	98	North Paved Area
	399,590		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment PR-N: North-Morrissey Blvd Repaved



Summary for Subcatchment PR-S: South-Morrissey Blvd Repaved

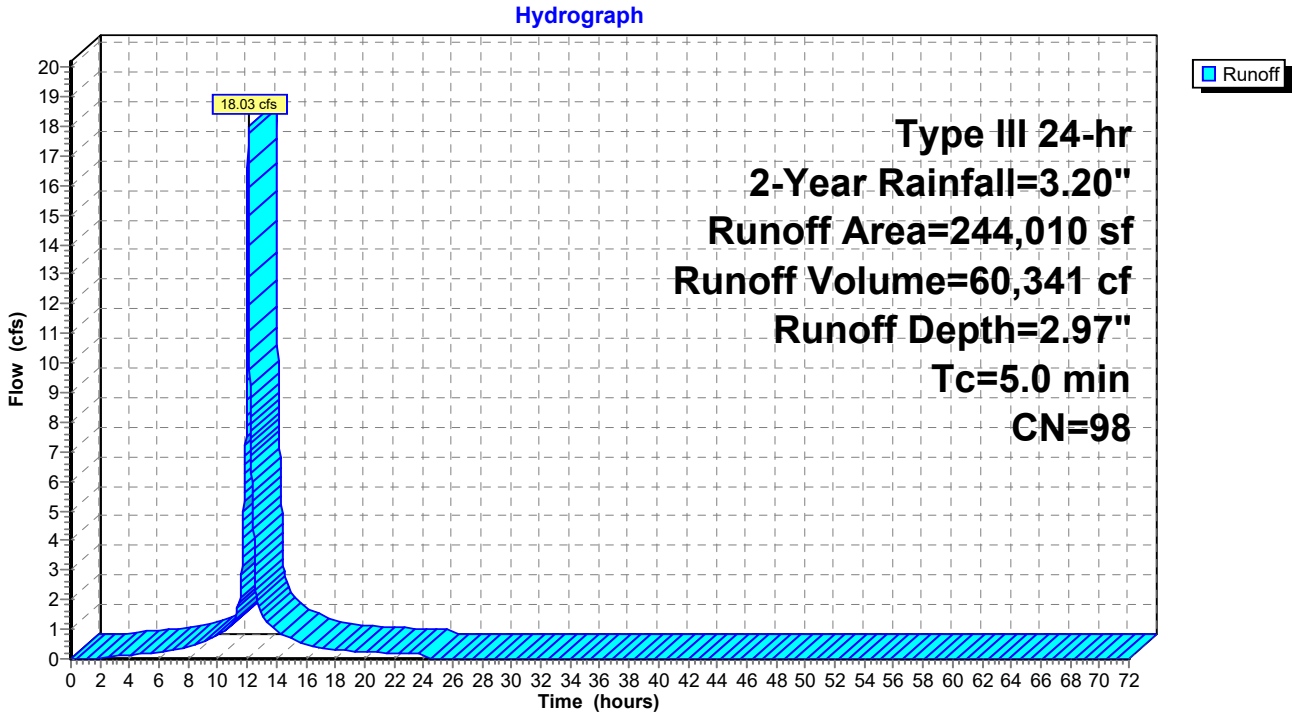
Runoff = 18.03 cfs @ 12.07 hrs, Volume= 60,341 cf, Depth= 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.20"

	Area (sf)	CN	Description
*	244,010	98	South Paved Area
	244,010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment PR-S: South-Morrissey Blvd Repaved

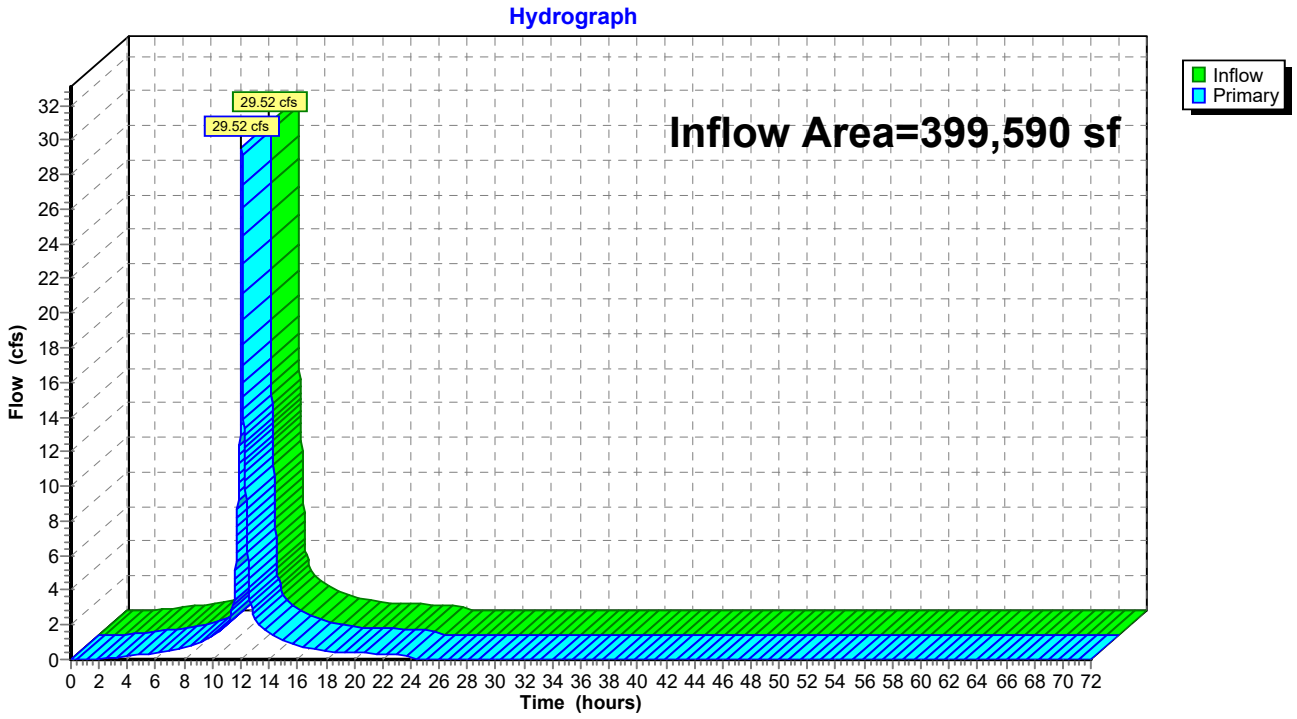


Summary for Link L-N: Discharge Point North

Inflow Area = 399,590 sf,100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 29.52 cfs @ 12.07 hrs, Volume= 98,815 cf
Primary = 29.52 cfs @ 12.07 hrs, Volume= 98,815 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-N: Discharge Point North

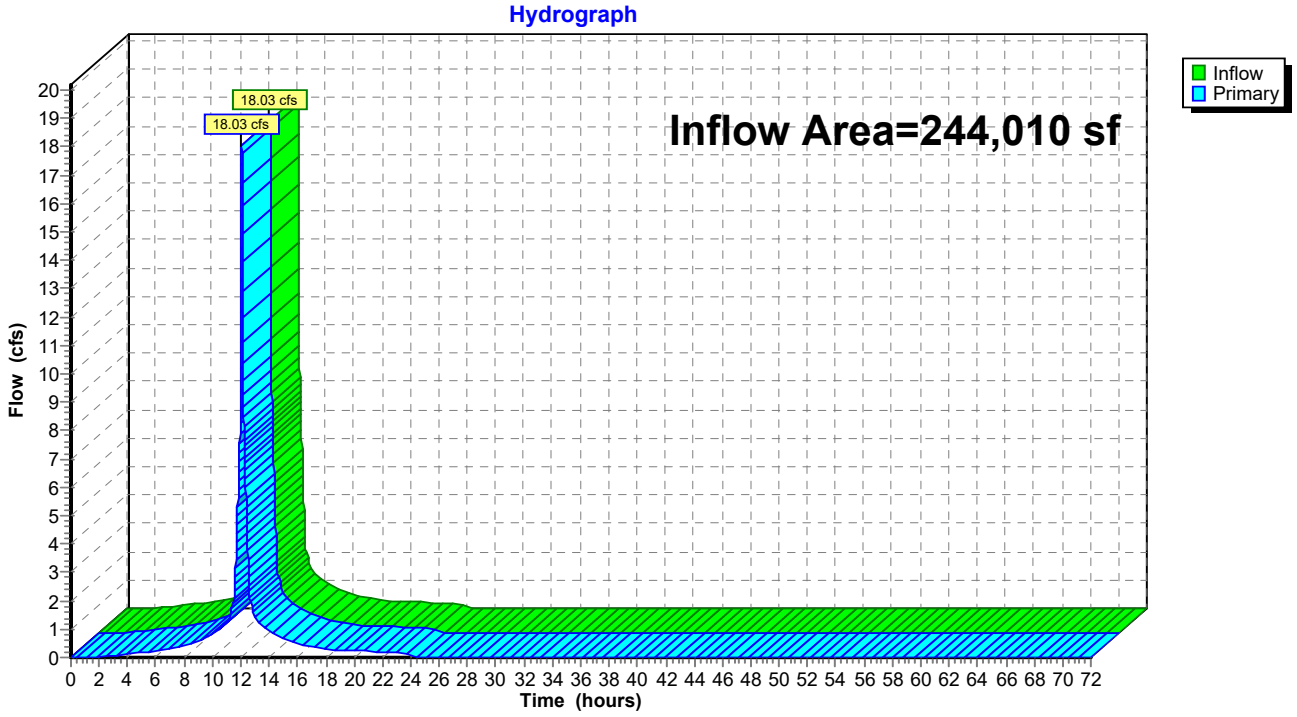


Summary for Link L-S: Discharge Point South

Inflow Area = 244,010 sf,100.00% Impervious, Inflow Depth = 2.97" for 2-Year event
Inflow = 18.03 cfs @ 12.07 hrs, Volume= 60,341 cf
Primary = 18.03 cfs @ 12.07 hrs, Volume= 60,341 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-S: Discharge Point South



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PR-N: North-Morrissey Runoff Area=399,590 sf 100.00% Impervious Runoff Depth=4.36"
Tc=5.0 min CN=98 Runoff=42.72 cfs 145,312 cf

Subcatchment PR-S: South-Morrissey Runoff Area=244,010 sf 100.00% Impervious Runoff Depth=4.36"
Tc=5.0 min CN=98 Runoff=26.09 cfs 88,735 cf

Link L-N: Discharge Point North Inflow=42.72 cfs 145,312 cf
Primary=42.72 cfs 145,312 cf

Link L-S: Discharge Point South Inflow=26.09 cfs 88,735 cf
Primary=26.09 cfs 88,735 cf

Total Runoff Area = 643,600 sf Runoff Volume = 234,048 cf Average Runoff Depth = 4.36"
0.00% Pervious = 0 sf 100.00% Impervious = 643,600 sf

Summary for Subcatchment PR-N: North-Morrissey Blvd Repaved

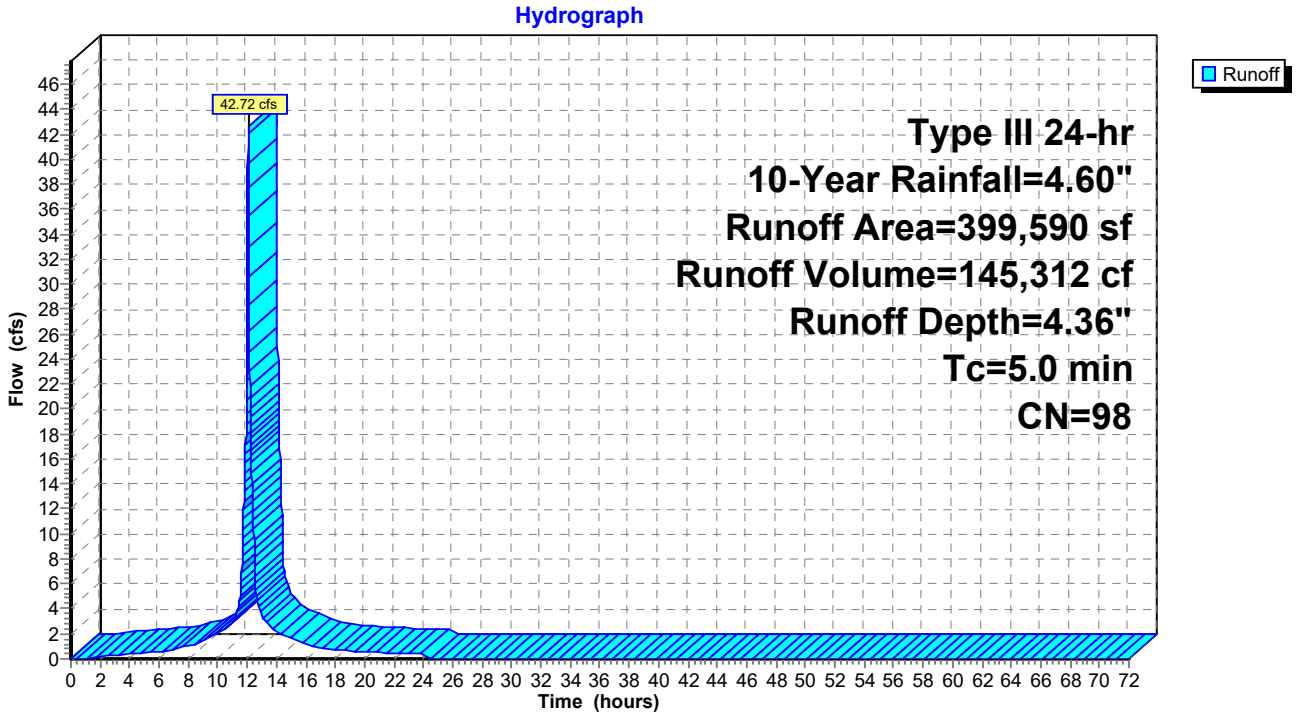
Runoff = 42.72 cfs @ 12.07 hrs, Volume= 145,312 cf, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=4.60"

	Area (sf)	CN	Description
*	399,590	98	North Paved Area
	399,590		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment PR-N: North-Morrissey Blvd Repaved



Summary for Subcatchment PR-S: South-Morrissey Blvd Repaved

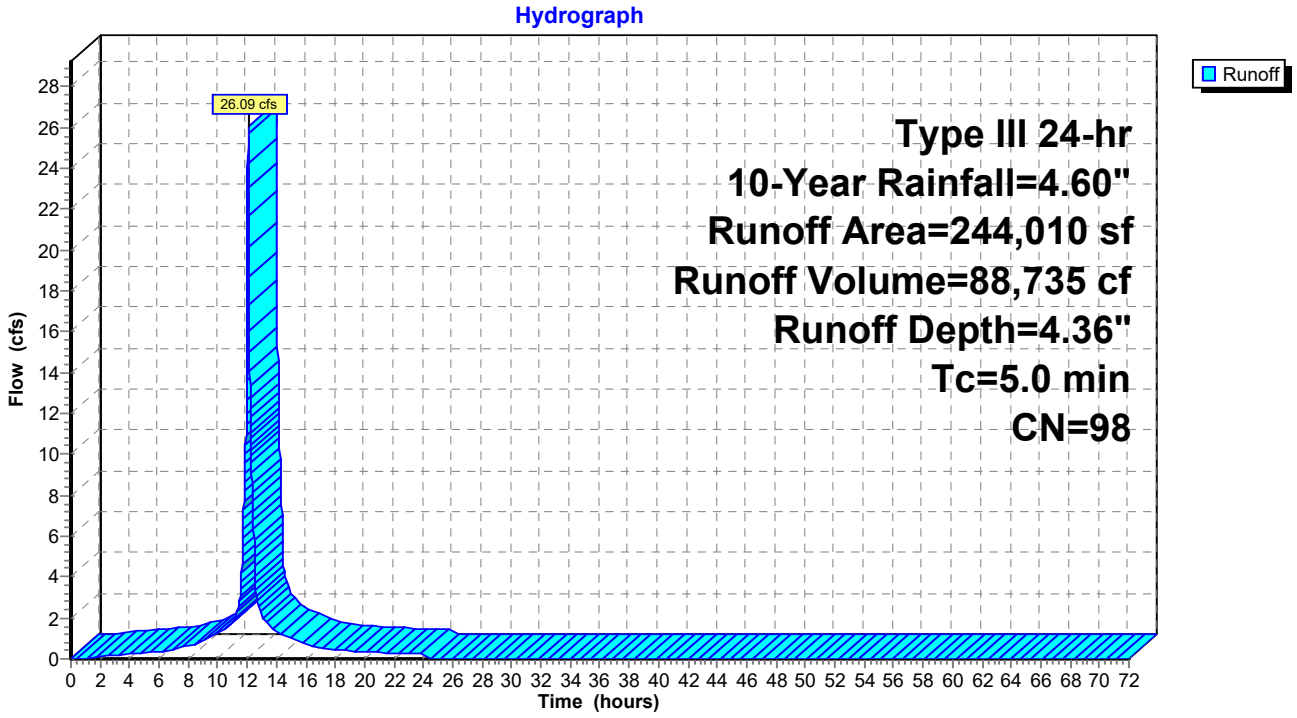
Runoff = 26.09 cfs @ 12.07 hrs, Volume= 88,735 cf, Depth= 4.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=4.60"

	Area (sf)	CN	Description
*	244,010	98	South Paved Area
	244,010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment PR-S: South-Morrissey Blvd Repaved

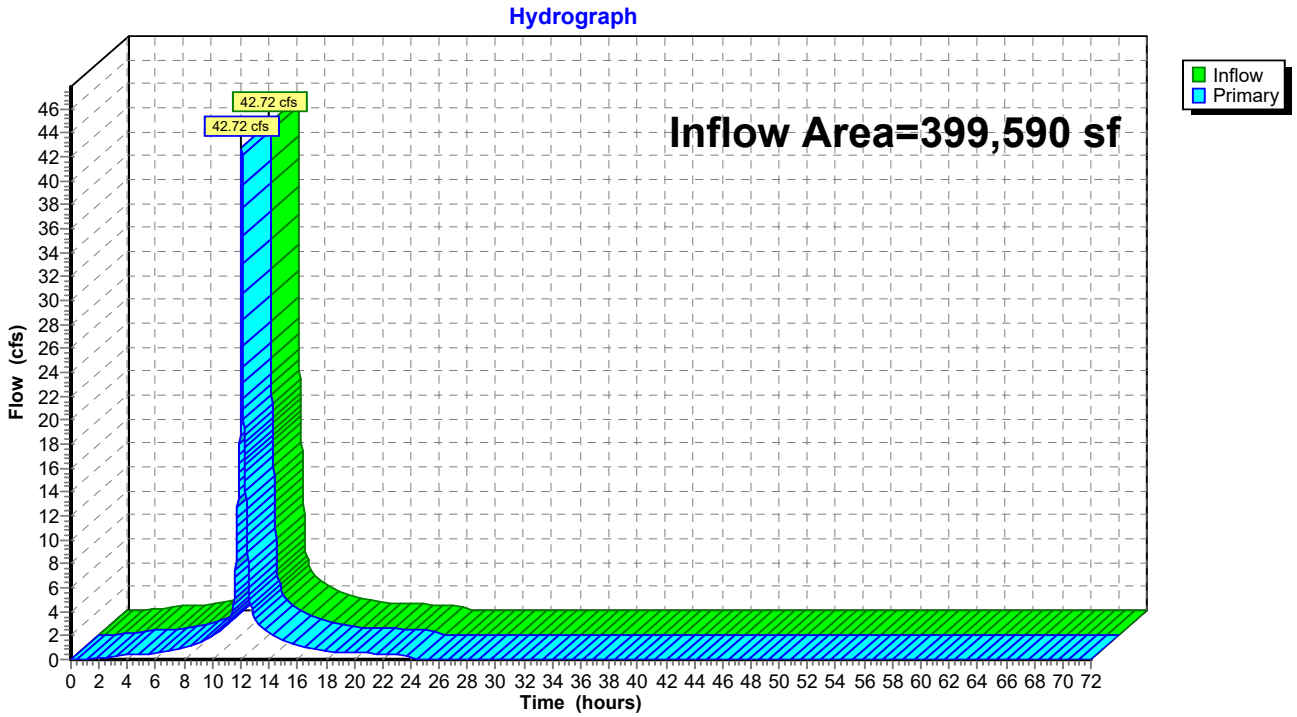


Summary for Link L-N: Discharge Point North

Inflow Area = 399,590 sf,100.00% Impervious, Inflow Depth = 4.36" for 10-Year event
Inflow = 42.72 cfs @ 12.07 hrs, Volume= 145,312 cf
Primary = 42.72 cfs @ 12.07 hrs, Volume= 145,312 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-N: Discharge Point North

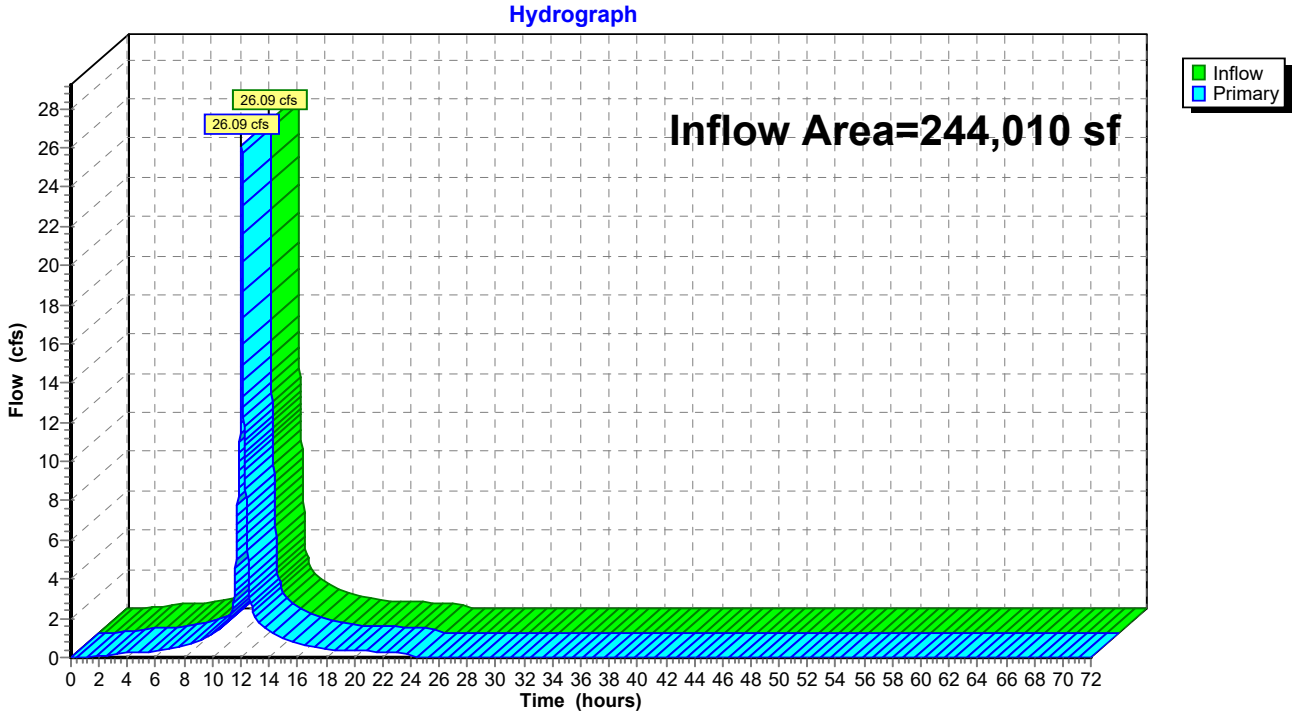


Summary for Link L-S: Discharge Point South

Inflow Area = 244,010 sf,100.00% Impervious, Inflow Depth = 4.36" for 10-Year event
Inflow = 26.09 cfs @ 12.07 hrs, Volume= 88,735 cf
Primary = 26.09 cfs @ 12.07 hrs, Volume= 88,735 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-S: Discharge Point South



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PR-N: North-Morrissey Runoff Area=399,590 sf 100.00% Impervious Runoff Depth=5.26"
Tc=5.0 min CN=98 Runoff=51.18 cfs 175,235 cf

Subcatchment PR-S: South-Morrissey Runoff Area=244,010 sf 100.00% Impervious Runoff Depth=5.26"
Tc=5.0 min CN=98 Runoff=31.25 cfs 107,008 cf

Link L-N: Discharge Point North Inflow=51.18 cfs 175,235 cf
Primary=51.18 cfs 175,235 cf

Link L-S: Discharge Point South Inflow=31.25 cfs 107,008 cf
Primary=31.25 cfs 107,008 cf

Total Runoff Area = 643,600 sf Runoff Volume = 282,243 cf Average Runoff Depth = 5.26"
0.00% Pervious = 0 sf 100.00% Impervious = 643,600 sf

Summary for Subcatchment PR-N: North-Morrissey Blvd Repaved

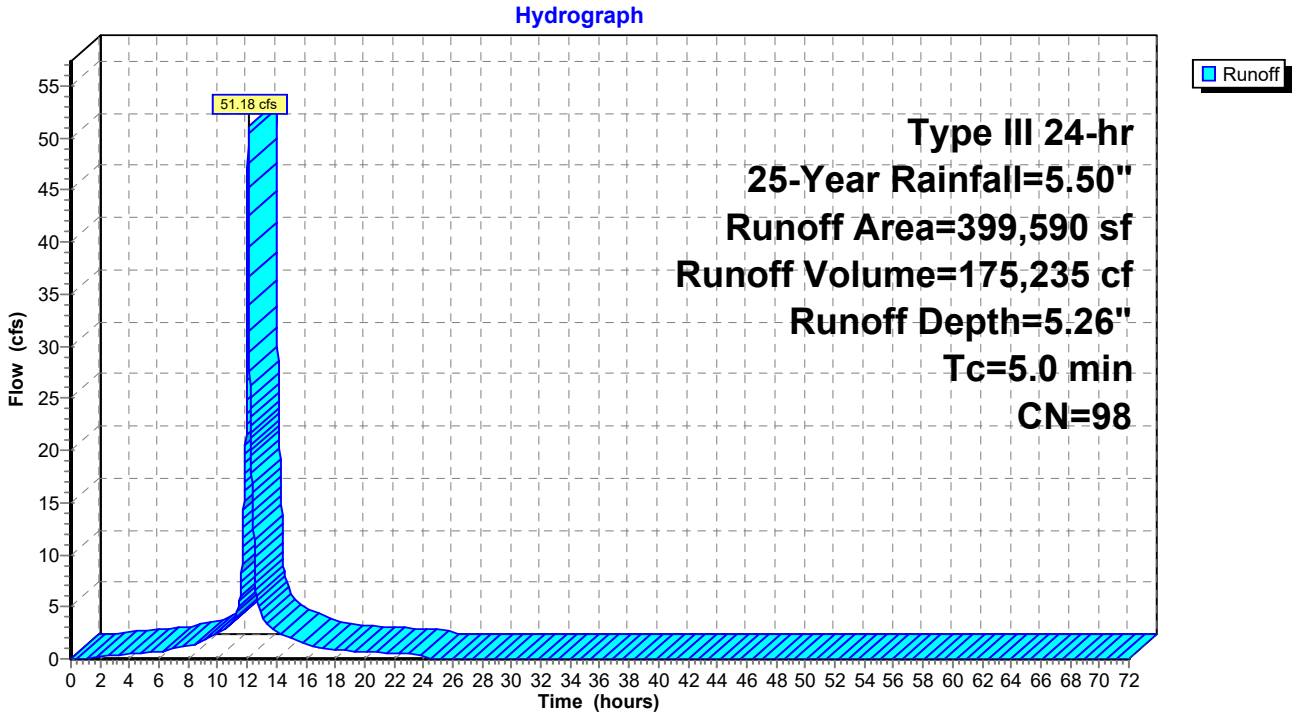
Runoff = 51.18 cfs @ 12.07 hrs, Volume= 175,235 cf, Depth= 5.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=5.50"

	Area (sf)	CN	Description
*	399,590	98	North Paved Area
	399,590		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment PR-N: North-Morrissey Blvd Repaved



Summary for Subcatchment PR-S: South-Morrissey Blvd Repaved

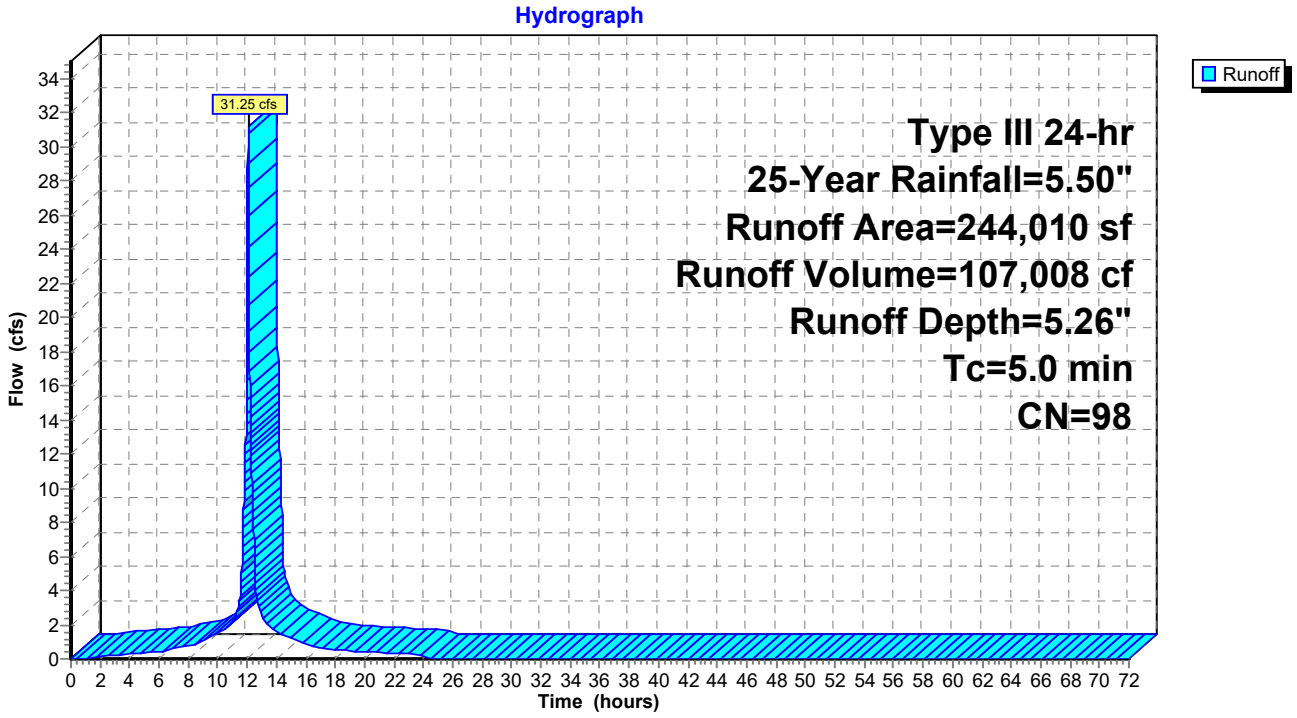
Runoff = 31.25 cfs @ 12.07 hrs, Volume= 107,008 cf, Depth= 5.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=5.50"

	Area (sf)	CN	Description
*	244,010	98	South Paved Area
	244,010		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, Direct**

Subcatchment PR-S: South-Morrissey Blvd Repaved

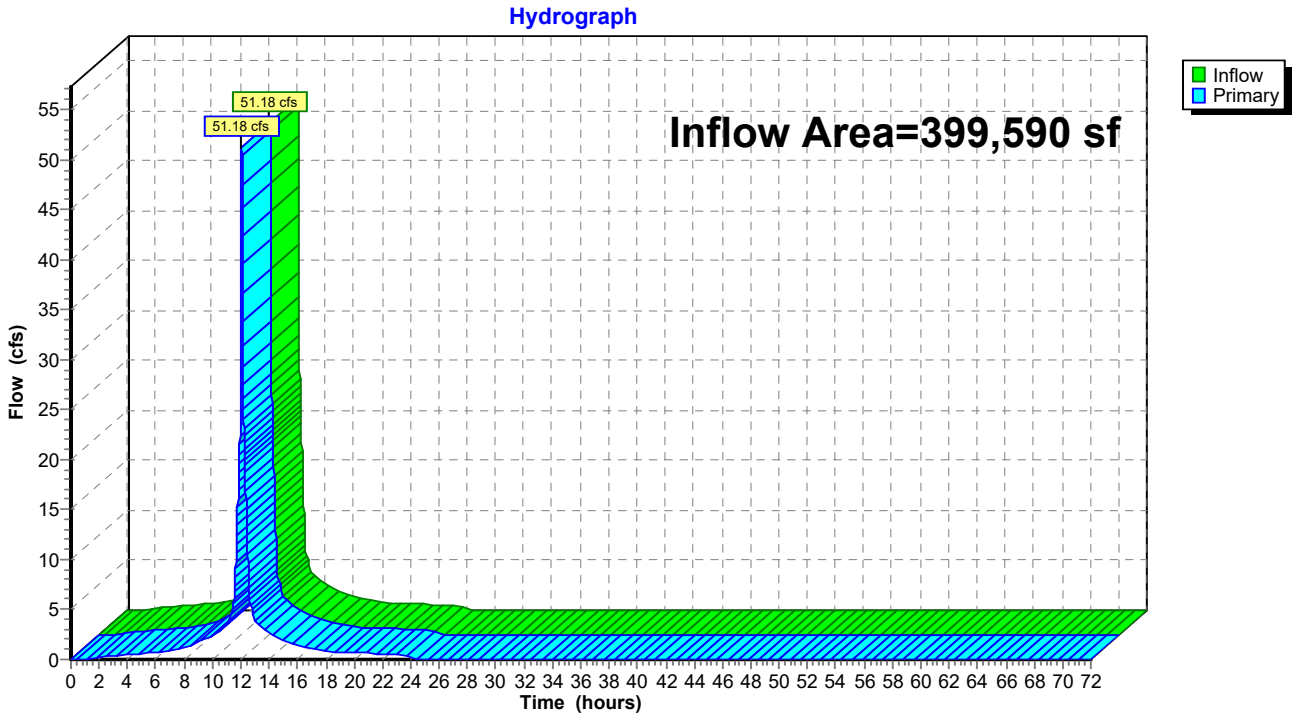


Summary for Link L-N: Discharge Point North

Inflow Area = 399,590 sf,100.00% Impervious, Inflow Depth = 5.26" for 25-Year event
Inflow = 51.18 cfs @ 12.07 hrs, Volume= 175,235 cf
Primary = 51.18 cfs @ 12.07 hrs, Volume= 175,235 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-N: Discharge Point North



Summary for Link L-S: Discharge Point South

Inflow Area = 244,010 sf,100.00% Impervious, Inflow Depth = 5.26" for 25-Year event
Inflow = 31.25 cfs @ 12.07 hrs, Volume= 107,008 cf
Primary = 31.25 cfs @ 12.07 hrs, Volume= 107,008 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Link L-S: Discharge Point South