

**Reconstruction of Sumner Avenue at
Dickinson Street and Belmont Avenue
(The "X")**
Expanded Environmental Notification Form

Proponent: City of Springfield
Springfield, Massachusetts

July 17, 2023

Preparer:



FUSS & O'NEILL

1550 Main Street, Suite 400
Springfield, MA 01103



FUSS & O'NEILL

July 17, 2023

Secretary Rebecca Tepper
Attn: MEPA Office
100 Cambridge Street, Suite 900
Boston, MA 02114

RE: Expanded Environmental Notification Form (EENF)
Reconstruction of Sumner Avenue at Dickinson Street and Belmont Avenue (The "X")
Springfield, Massachusetts

Dear Secretary Tepper,

On behalf of the City of Springfield (City), Fuss & O'Neill is submitting this Expanded Environmental Notification Form (EENF) for the Reconstruction of Sumner Avenue at Dickinson Street and Belmont Avenue (The "X") project in Springfield, Massachusetts. Through the submittal of this dual EENF and Proposed Environmental Impact Report (PEIR) (submitted under separate cover), the City requests authorization for a rollover EIR as discussed with the MEPA Office during the April 20, 2023 pre-filing meeting.

The proposed project includes roadway reconstruction of the Sumner Avenue corridor and abutting intersections to improve vehicular safety and traffic flow. The project also includes sidewalk and bike lane improvements to promote safer and improved access for pedestrians and bicycle traffic.

On April 20, 2023, Fuss & O'Neill met with the MEPA Office for a MEPA-Environmental Justice (EJ) pre-filing meeting to discuss the submittal type and outreach to environmental justice communities. The MEPA Director and Deputy Director of EJ for External Stakeholder Coordination attended. Feedback received during the pre-filing meeting has been incorporated into the project.

The project exceeds one review threshold for transportation and is within 1 mile of EJ populations. No mandatory EIR thresholds are exceeded. Although there are impacts associated with the proposed reconstruction, the project will result in a net benefit to public safety and access to the surrounding EJ communities.

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Connecticut

Maine

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Vermont



Enclosed with this submittal are the EENF form, project figures and plans, and other required materials. This EENF is being submitted for publication in the July 26, 2023 edition of the Environmental Monitor. Public Notices in English, Spanish, and Vietnamese will also be published in the Springfield Republican newspaper.

We look forward to discussing this project with you. Should you have any questions or require additional information, please contact Alex Maxwell at 617-379-5876 / email at amaxwell@fando.com.

Sincerely,

Alex Maxwell, PhD
Resilience Planner
Fuss & O'Neill, Inc.

Copy:
See distribution list

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Expanded Environmental Notification Form

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Expanded Environmental Notification Form

Commonwealth of Massachusetts
 Executive Office of Energy and Environmental Affairs
 Massachusetts Environmental Policy Act (MEPA) Office

Environmental Notification Form

For Office Use Only

EEA#: _____

MEPA Analyst: _____

The information requested on this form must be completed in order to submit a document electronically for review under the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Reconstruction of Sumner Avenue at Dickinson Street and Belmont Avenue (The "X")		
Street Address: Sumner Avenue; Dickinson Street; Belmont Avenue		
Municipality: Springfield	Watershed: Connecticut	
Universal Transverse Mercator Coordinates: E: 701996.75, N: 4662237.01, Zone 18T	Latitude: 42°05'10.5" N Longitude: 72°33'28.0" W	
Estimated commencement date: September 2024	Estimated completion date: September 2026	
Project Type: Transportation – Roadways/Transit	Status of project design: 100 % complete	
Proponent: City of Springfield c/o Christopher M. Cignoli, P.E. Director of Public Works		
Street Address: 70 Tapley Street		
Municipality: Springfield	State: MA	Zip Code: 01104
Name of Contact Person: Alex Maxwell, PhD		
Firm/Agency: Fuss & O'Neill, Inc.	Street Address: 115 Broad Street 6th Floor	
Municipality: Boston	State: MA	Zip Code: 02110
Phone: (617) 379-5876	Fax:	E-mail: amaxwell@fando.com

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?

Yes No

If this is an Expanded Environmental Notification Form (ENF) (see 301 CMR 11.05(7)) or a Notice of Project Change (NPC), are you requesting:

a Single EIR? (see 301 CMR 11.06(8))

Yes No

a Rollover EIR? (see 301 CMR 11.06(13))

Yes No

a Special Review Procedure? (see 301CMR 11.09)

Yes No

a Waiver of mandatory EIR? (see 301 CMR 11.11)

Yes No

a Phase I Waiver? (see 301 CMR 11.11)

Yes No

(Note: Greenhouse Gas Emissions analysis must be included in the Expanded ENF.)

Which MEPA review threshold(s) does the project meet or exceed (see 301 CMR 11.03)?

ENF and Other MEPA Review if the Secretary So Requires

301 CMR 11.03(6)(b)(2)(b) - Construction, widening or maintenance of a roadway or its right-of-way that will cut five or more living public shade trees of 14 or more inches in diameter at breast height.

Which State Agency Permits will the project require?

None.

Identify any financial assistance or land transfer from an Agency of the Commonwealth, including the Agency name and the amount of funding or land area in acres:

**Financial Assistance – Massachusetts Department of Transportation
(\$3,455,162.06)**

Financial Assistance – FHWA (\$13,820,648.23)

No land transfer from an Agency of the Commonwealth will be required for the project.

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			
Total site acreage	12.60		
New acres of land altered		12.60	
Acres of impervious area	11.97	+0.45	12.42
Square feet of new bordering vegetated wetlands alteration		N/A	
Square feet of new other wetland alteration		N/A	
Acres of new non-water dependent use of tidelands or waterways		N/A	
STRUCTURES			
Gross square footage	N/A	N/A	N/A
Number of housing units	N/A	N/A	N/A
Maximum height (feet)	N/A	N/A	N/A
TRANSPORTATION			
Vehicle trips per day	N/A	N/A	N/A
Parking spaces	N/A	N/A	N/A
WASTEWATER			
Water Use (Gallons per day)	N/A	N/A	N/A
Water withdrawal (GPD)	N/A	N/A	N/A
Wastewater generation/treatment (GPD)	N/A	N/A	N/A
Length of water mains (miles)	N/A	N/A	N/A
Length of sewer mains (miles)	N/A	N/A	N/A
<p>Has this project been filed with MEPA before? <input type="checkbox"/> Yes (EEA # _____) <input checked="" type="checkbox"/> No</p>			
<p>Has any project on this site been filed with MEPA before? <input type="checkbox"/> Yes (EEA # _____) <input checked="" type="checkbox"/> No</p>			

GENERAL PROJECT INFORMATION – all proponents must fill out this section

PROJECT DESCRIPTION:

Describe the existing conditions and land uses on the project site:

The project site, within the limits of work, consists of existing roadways, right-of-way and associated sidewalks for Sumner Avenue, Dickinson Street, Belmont Avenue, Oakland Street, Cliftwood Street, Burlington Street, Lenox Street, Commonwealth Avenue, and Ormond Street.

Within the limits of work:

- Sumner Avenue is a four-lane road with sidewalks, no bike lanes, and no on-street parking.
- Dickinson Street is a two-lane road with sidewalks, no bike lanes, and on-street parking on the north side of Sumner Avenue.
- Belmont Avenue is a two-lane road with sidewalks, no bike lanes, and on-street parking.
- Oakland Street is a two-lane road with sidewalks, no bike lanes, and on-street parking.
- Cliftwood Street is a southbound one-way one lane road with sidewalks, no bike lanes, and no on-street parking.
- Burlington Street is a two-lane road with a sidewalk on the north/west side and partial sidewalk on the south/east side, no bike lanes, and on-street parking on the north/west side.
- Lenox Street is a northbound one-way two-lane road with sidewalks, no bike lanes, and no on-street parking.
- Commonwealth Avenue is a two-lane road with sidewalks, no bike lanes, and no on-street parking.
- Ormond Street is a two-lane road with sidewalks, no bike lanes, and on-street parking on the east side of the street.

The project area abuts the General Business (Bus A), Service Business (Bus B), Neighborhood Commercial (Com A), Commercial Parking (Com P), Non owner occupied Residential Office (Office A), Urban Residential (Res B), High Density Residential (Res C), and Open Space zoning districts, and is partially located within Neighborhood Commercial Overlay District. Existing issues associated with the project site include intersection safety, traffic congestion and delay, cut-through traffic, deficient pedestrian facilities, inadequate bicycle accommodation, and obsolete signal equipment.

Summary of Deficiencies

Within the project limits there are several operational and safety deficiencies including:

- Intersection Safety
- Congestion and Delay
- Cut-Through Traffic
- Deficient Pedestrian Facilities
- Inadequate Bicycle Accommodation
- Obsolete Signal Equipment

Wetland Resource Areas

There are no wetland resource areas within the project limits.

Sensitive Environmental Areas

There are no Sensitive Environmental Areas, including NHESP Priority Habitat of Rare Species/ Estimated Habitat of Rare Wildlife, Areas of Critical Environmental Concern (ACEC), Stormwater Critical Areas, or Outstanding Resource Waters, within or adjacent to the project limits.

Environmental Justice Populations

There are 150 census block groups that meet Environmental Justice (EJ) population criteria

within five (5) miles of the project limits, 34 of which are located within one (1) mile of the project limits. The environmental justice populations that the project intersects (i.e., within the project limits) have identifying criteria of Minority, and Minority and Income. The environmental justice populations within the DGA of 1 mile have identifying criteria of Minority; Minority and Income; Minority, Income and English Isolation. Additional information regarding these environmental justice populations, including languages spoken, is provided in the Environmental Justice Section of this form.

Open Space

There is no open space within the project limits. The westernmost edge of the project limits abuts the Sumner Avenue entrance to Forest Park. Forest Park is subject to protection under Section 4(f) of the Department of Transportation Act. The park is open to the public and serves a significant public recreational function with walking trails, baseball fields, gardens, and the Forest Park Zoo.

Historic Properties

Research conducted through the Massachusetts Cultural Resources Information System (MACRIS) indicates that within 1 mile of the project limits there are 957 inventoried points and 13 inventoried areas. Of the 957, 2 individual properties are listed on the National Register of Historic Places Individual, 491 are within a National Register of Historic Places District, and 481 are within a Local Historic District. A map of the historic properties adjacent to the project limits is provided in Figure 2 in Appendix A.

Describe the proposed project and its programmatic and physical elements:

NOTE: The project description should summarize both the project's direct and indirect impacts (including construction period impacts) in terms of their magnitude, geographic extent, duration and frequency, and reversibility, as applicable. It should also discuss the infrastructure requirements of the project and the capacity of the municipal and/or regional infrastructure to sustain these requirements into the future.

The proposed work consists of improvements to the Sumner Avenue corridor and abutting intersections starting in the Forest Park neighborhood of Springfield. The project begins at the Sumner Avenue intersection with Forest Park Main Greeting Road and goes approximately 3,100 feet east to the intersection with Daytona Street. The Belmont Avenue segment begins just northwest of its intersection with Burlington Street and runs approximately 1,650 feet south to the intersection with Ormond Street. The Dickinson Street segment begins at the intersection with Burlington Street and runs south approximately 1,050 feet to the intersection with Cliftwood Street. The proposed project will result in 12.60 acres of disturbance within the roadway right-of-way. Construction is anticipated to last from September 2024 to September 2026.

This project includes the re-alignment of Belmont Avenue at "The X" intersection and the conversion to a one-way street, going away from "The X" intersection until reaching Burlington Street to the west and Commonwealth Avenue to the east. As part of the proposed project, the intersection of Belmont Avenue and Commonwealth Avenue would be converted into a roundabout. Associated work includes:

- Modification of traffic patterns
- Updates to traffic signal equipment
- Updates to signal coordination
- Addition of 5-foot bicycle lanes
- Reconstruction and reconfiguration of sidewalks, pedestrian facilities
- Upgrades to accessibility
- Improvements to transit stops, street furniture, and landscaping
- Addition of auxiliary lanes

This Expanded Environmental Notification Form (EENF) is being submitted with a Proposed Environmental Impact Report (EIR) as part of City of Springfield's request that the Secretary allow a Rollover EIR in accordance with 301 CMR 11.06(13). The proposed EIR follows the form

and content of 301 CMR 11.07(6) and describes and analyzes the project and its alternatives, assesses its potential environmental and public health impacts and mitigation measures, and contains a full environmental justice analysis using the methodology set forth in the Massachusetts Environmental Policy Act (MEPA) Interim Protocol for Analysis for Project Impacts on Environmental Justice Populations.

Describe the on-site project alternatives (and alternative off-site locations, if applicable), considered by the proponent, including at least one feasible alternative that is allowed under current zoning, and the reasons(s) that they were not selected as the preferred alternative:

NOTE: *The purpose of the alternatives analysis is to consider what effect changing the parameters and/or siting of a project, or components thereof, will have on the environment, keeping in mind that the objective of the MEPA review process is to avoid or minimize damage to the environment to the greatest extent feasible. Examples of alternative projects include alternative site locations, alternative site uses, and alternative site configurations.*

Alternative 1: No Action

The no action alternative includes no additional safety improvements or traffic pattern modifications to the Sumner Avenue corridor and abutting intersections (the "X"). No action would likely result in the persistence of unsafe conditions leading to car crashes and other collisions. This alternative was discarded from consideration as it does not provide any safety or complete streets improvements to the X.

Alternative 2: X Reconstruction - Larger Footprint

Alternative 2 consists of improvements to the Sumner Avenue corridor and abutting intersections starting in the Forest Park neighborhood of Springfield. Associated work would include traffic pattern modifications, new traffic signal equipment, new signal coordination, 5-foot bicycle lanes, reconstruction and reconfiguration of sidewalks, pedestrian facility and accessibility upgrades, street furniture and landscaping, auxiliary lane additions, and would provide all incidental materials and labor necessary for the operation of the traffic control signals in accordance with the project plans and specifications. Alternative 2 includes removing 35 more shade trees than the preferred alternative (Alternative 3). This concept widens the roadway from 55 feet to 64 feet to provide 5-foot bicycle lanes. Alternative 2 includes a shared use path within Forest Park with connections to Sumner Avenue and Cliftwood Street, as well as a shared use path along Trafton Road. This concept includes modifying the Belmont Avenue and Burlington Street intersection to incorporate a roundabout and includes a contraflow bicycle lane on Belmont Avenue north. Modification to the right-of-way in Alternative 2 results in 5 fee takings, 4 permanent easements, 111 temporary easements, and the potential permanent conversion of parkland to provide unrestricted public occupancy of the Forest Park paths. This alternative was discarded from consideration due to pushback against the number of shade trees being removed, the proposed width of the roadway, the contraflow bike lane on Belmont Avenue, and the inability to acquire sufficient private property to accommodate the proposed roundabout at Belmont Avenue and Burlington Street.

Alternative 3: X Reconstruction - Smaller Footprint – PREFERRED ALTERNATIVE

Refer to the project description above.

The preferred alternative consists of improvements to the Sumner Avenue corridor and abutting intersections starting in the Forest Park neighborhood of Springfield. The preferred alternative reduces the number of trees removed compared to Alternative 2 and results in a net gain of 57 trees. This concept widens the roadway from 55 feet to 58 feet, utilizing existing sidewalk space to create 8-foot separated shared use paths. Due to unresolved concerns regarding ROW requirements raised for Alternative 2, the Forest Park shared use path (within the park) with connections to Sumner Avenue and Cliftwood Street has been removed from the preferred alternative, as well as the Trafton Road path at the request of the Springfield Parks

Department. The roundabout proposed in Alternative 2 at the Belmont Avenue and Burlington Street intersection has been changed to a T intersection due to the inability of the City to acquire sufficient private property to accommodate the roundabout. The preferred alternative has reversed the contraflow bicycle lane on Belmont Avenue, instead including a bicycle lane traveling with traffic. The preferred alternative includes a new mid-block pedestrian crossing with rectangular rapid flashing beacons and a median refuge island on Sumner Avenue west of the Forest Park Main Greeting Road. Modification to right-of-way results in 4 fee takings, 5 permanent easements, and 116 temporary easements.

Summarize the mitigation measures proposed to offset the impacts of the preferred alternative:

- **Best management practices have been included in the planning and design to minimize construction-period impacts**
- **Use of appropriate erosion and sediment controls during construction**
- **Planting of trees and native plant species to sequester carbon and mitigate heat island impact (Note: The project will result in a net increase in tree plantings and hundreds of new landscape plants.)**

The project has been designed to avoid, minimize, and mitigate environmental impacts associated with an increase in impervious surface. There are no jurisdictional wetland resource areas within the project limits.

Public Shade Tree Mitigation

To mitigate the proposed shade tree removals, the proposed project includes planting 118 new trees, resulting in a net gain of 57 trees. The project also includes landscape improvement and tree protection for all trees to be retained. All excavation within ten feet of designated trees shall be performed by hand labor to preserve the root system of the tree.

Stormwater Mitigation

To mitigate the proposed increase in impervious surface cover the proposed project includes installing 4 deep sump catch basins and repairing, replacing, or cleaning (as necessary) the existing drainage pipes and structures within the project limits. Proposed deep sump catch basins will provide stormwater improvements by allowing sediments and other suspended solids to settle out of stormwater runoff before discharging to receiving waters. The proposed project includes the installation of hay bales/silt fences (or similarly effective devices) and catch basin silt sacks during construction to prevent sediments or other suspended solids from entering the closed drainage system and discharging to receiving waterbodies.

Climate Change Mitigation and Air Quality

Contractor specifications will require that the contractor comply with the provisions of MGL Chapter 90 Section 16A and the DEP Anti-Idling Regulations (310 CMR 7.11(b)) that prohibit unnecessary engine idling and require that engines be shut down if the vehicle will be stopped for more than five minutes. Construction equipment will be required to abide by the Massachusetts 5-minute idle law. Operation of equipment will be limited to between 7:00 AM and 3:30 PM from Monday to Friday. Work will be performed in accordance with the City of Springfield Noise Ordinance. Contractors will be encouraged to use construction equipment with engines manufactured to Tier 4 federal emission standards. Selection of project contractors that have installed retrofit emissions control devices or vehicles that use alternative fuels to reduce emissions of volatile organic compounds (VOCs), carbon monoxide (CO) and particulate matter (PM) from diesel-powered equipment to the maximum extent practicable.

If the project is proposed to be constructed in phases, please describe each phase:

N/A

AREAS OF CRITICAL ENVIRONMENTAL CONCERN:

Is the project within or adjacent to an Area of Critical Environmental Concern?

- Yes (Specify _____)
- No

if yes, does the ACEC have an approved Resource Management Plan?

- Yes (Specify _____)
 No

If yes, describe how the project complies with this plan.

Will there be stormwater runoff or discharge to the designated ACEC?

- Yes (Specify _____)
 No

If yes, describe and assess the potential impacts of such stormwater runoff/discharge to the designated ACEC.

RARE SPECIES:

Does the project site include Estimated and/or Priority Habitat of State-Listed Rare Species? (see http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/priority_habitat/priority_habitat_home.htm)

- Yes (Specify _____)
 No

HISTORICAL /ARCHAEOLOGICAL RESOURCES:

Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

- Yes (Specify _____)

MassDOT Cultural Resources Unit (CRU) has reviewed the proposed project under the Massachusetts Statewide Programmatic Agreement for Section 106 of the National Historic Preservation Act of 1966, as amended [36 CFR 800], and has determined that "The X" improvements have No Adverse Effects on the adjacent historical properties. There are multiple historical properties within or near the project limits according to the MACRIS database. These properties are the Forest Park Heights Historic District, Forest Park Trolley Pavillion, Trinity Methodist Episcopal Church, Chapin Block, and the houses of Nattie Buckland, Frank Morse, Arthur Redmond, A. M. Stone, and Charles Teske. These historical properties will not be adversely affected by any of the proposed work in the vicinity, which may consist of roadway widening, bike paths, sidewalks, ADA accessibility improvements, driveway replacements, grading of slopes, and seeding of lawn. The project received a concurrence of a Section 106 finding of No-Adverse-Effect from the Massachusetts Historic Commission (MHC) on 09/27/2022.

- No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

- Yes (Specify _____)
 No

WATER RESOURCES:

Is there an Outstanding Resource Water (ORW) on or within a half-mile radius of the project site?

- Yes
 No

If yes, identify the ORW and its location. _____

(NOTE: Outstanding Resource Waters include Class A public water supplies, their tributaries, and bordering wetlands; active and inactive reservoirs approved by MassDEP; certain waters within Areas of Critical Environmental Concern, and certified vernal pools. Outstanding resource waters are listed in the Surface Water Quality Standards, 314 CMR 4.00.)

Are there any impaired water bodies on or within a half-mile radius of the project site?

- Yes (Specify _____)
 No

If yes, identify the water body and pollutant(s) causing the impairment:

_____.

Is the project within a medium or high stress basin, as established by the Massachusetts Water Resources Commission?

- Yes (Specify _____)
 No

STORMWATER MANAGEMENT:

Generally describe the project's stormwater impacts and measures that the project will take to comply with the standards found in MassDEP's Stormwater Management Regulations: _____

The proposed project consists of roadway geometry and intersection alignment improvements, as well as traffic, safety, pedestrian, and bicycle enhancements. There are no major areas of construction, significant increases in impervious cover, or substantial drainage alterations to existing drainage patterns proposed. The proposed project includes the installation of 4 deep sump catch basins and repairing, replacing, or cleaning (as necessary) the existing drainage pipes and structures within the project limits. Proposed deep sump catch basins will provide stormwater improvements by allowing sediments and other suspended solids to settle out of stormwater runoff before discharging to receiving waters.

Stormwater impacts will be minimized to the extent practicable by minimizing the work area and implementing best management practices such as erosion and sediment controls. No wetland resource areas are located within the limits of the project. The proposed project is not subject to the Wetlands Protection Act Regulations set forth at 310 CMR 10.0 or the Water Quality Certification Regulations set forth at 314 CMR 9.00. The proposed project is not subject to the MassDEP Stormwater Management Regulations, but it complies with them to the maximum extent practicable as described below:

Standard 1: No New Untreated Discharges

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

There are no new, untreated discharges proposed as part of this project. The project will retain the existing outfalls and drainage patterns within the project limits. The project complies with Standard 1.

Standard 2: Peak Rate Attenuation

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

The project is a redevelopment effort and will result in a minor increase in the post-development peak discharge rates due to the proposed increase in impervious surface. This proposed increase in impervious surface cover is associated with the construction of pedestrian and bicycle accommodations intended for non-motorized vehicular use. The project has minimized the construction of new impervious areas to the extent practicable while still achieving the necessary capacity, accessibility, and safety improvements. The project complies with Standard 2 to the maximum extent practicable.

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 pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

The project meets the criteria for redevelopment based on the Stormwater Handbook. No new infiltration systems are proposed. Opportunities for the implementation of additional treatment best management practices (BMPs) are limited due to a lack of available space within the public right-of-way, and the residential and commercial density of the area.

Standard 4: Water Quality

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

- a. Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan, and thereafter are implemented and maintained;
- b. Structural stormwater best management practices are sized to capture the required water quality volume determined in accordance with the Massachusetts Stormwater Handbook; and
- c. Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook.

As a result of the proposed realignment and reconstruction of existing roadways along with construction of additional pedestrian and bicycle accommodations, the project will result in an increase in impervious surface cover totaling 19,602 square feet. Opportunities for the implementation of additional treatment best management practices (BMPs) are limited due to a lack of available space within the public right-of-way, and the residential and commercial density of the area. The project complies with Standard 4 to the maximum extent practicable.

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

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

The project consists of work on roadways, sidewalks, bicycle lanes, and commercial/residential driveways, none of which are considered land uses with higher potential pollutant loads.

Standard 6: Critical Areas

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

a public water supply.

There are no Stormwater Critical Areas within or adjacent to the project limits.

Standard 7: Redevelopment

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

The project consists of the redevelopment of the existing roadways and portions of the adjacent residential and commercial properties. The project complies with the Stormwater Management Standards to the maximum extent practicable and provides an improvement over the existing conditions through maintenance and improvements to the existing drainage infrastructure. Proposed improvements include repairs to the existing closed drainage system and the installation of new deep sump catch basins which will provide an opportunity for sediment and suspended solids to settle out of stormwater runoff prior to discharging to receiving waters.

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

A plan to control construction-related impacts such as 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.

Since the project will disturb more than one acre of land, the Contractor will be required to file a Notice of Intent to the EPA for coverage under the National Pollution Discharge Elimination System (NPDES) Construction General Permit. As part of the application, the Applicant is required to prepare a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP will be prepared by the Contractor and will include erosion and sediment controls, temporary stormwater management measures, Contractor inspection schedules, materials management, waste disposal, spill prevention and response, sanitation, and non-stormwater discharges.

Erosion controls shall consist of compost filter tubes, silt fences or similarly effective devices. In addition, silt sacks will be installed in catch basins. The erosion and sedimentation control measures will be installed and maintained in accordance with the Massachusetts Erosion and Sedimentation Control in the Site Development Massachusetts Conservation Guide, September 1983.

Temporary erosion and sedimentation control measures shall be installed prior to the commencement of any site work, maintained during construction and remain in place until site work is completed, and ground cover is established (at least 75% uniform coverage by new seedlings). All erosion and sedimentation control measures shall be maintained in effective condition throughout the construction period. The contractor shall inspect the erosion controls daily and clean accumulated materials from behind them as necessary. All erosion and sedimentation control measures found to need repair or replacement shall be immediately corrected. Any sediment removed from control structures shall be disposed of in an appropriate manner. No equipment or material of any kind shall be stockpiled or deposited in a regulated area. Stockpiled soil within jurisdictional areas shall be surrounded with siltation fences to prevent and control siltation and erosion. Stockpiles that will remain exposed for more than 30 days shall be stabilized with mulch or seeded for temporary vegetative cover. All disturbed areas that remain exposed or undisturbed for a period of fourteen days or longer shall be stabilized with mulch or seeded for temporary vegetative cover.

The contractor shall inspect all portions of the site in anticipation of rainfall events to determine if site grading is sufficient to prevent erosion of slopes and / or the

transportation of sediments to wetlands and watercourses in the surrounding areas. All disturbed earth slopes shall be stabilized with permanent vegetative cover as soon as possible. There shall be no direct discharge from dewatering operations in any wetland, watercourse or drainage system unless allowed by regulatory permits.

A stockpile of erosion control materials shall be kept on site throughout the construction work and shall be installed at the direction of the engineer to mitigate any erosion/sedimentation conditions that may arise.

Standard 9: Long Term Operation and Maintenance Plan

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

The Springfield DPW is responsible for maintenance of stormwater structures, including the four (4) deep sump catch basins that are part of the preferred alternative design. Maintenance includes street sweeping and sediment removal.

Standard 10: Illicit Discharges

All illicit discharges to the stormwater management system are prohibited. There are no known illicit discharges to the existing system within the project limits.

If any potential illicit connections are detected during the construction, the nature and source of the discharge will be determined and, if no permit exists, the connection will be plugged and abandoned.

MASSACHUSETTS CONTINGENCY PLAN:

Has the project site been, or is it currently being, regulated under M.G.L.c.21E or the Massachusetts Contingency Plan?

Yes

No

If yes, please describe the current status of the site (including Release Tracking Number (RTN), cleanup phase, and Response Action Outcome classification): _____

Is there an Activity and Use Limitation (AUL) on any portion of the project site?

Yes

No

If yes, describe which portion of the site and how the project will be consistent with the AUL:

_____.

Are you aware of any Reportable Conditions at the property that have not yet been assigned an RTN?

Yes (Specify _____)

No

If yes, please describe: _____

SOLID AND HAZARDOUS WASTE:

If the project will generate solid waste during demolition or construction, describe alternatives considered for re-use, recycling, and disposal of, e.g., asphalt, brick, concrete, gypsum, metal, wood: _____

The solid waste generated from this project will include, but is not limited to asphalt pavement, concrete, and wood. The disposal of these items will be conducted in accordance with all local, state, and federal laws.

Materials will be re-used and recycled to the maximum extent practicable. MassDEP shall be notified if oil and/or hazardous materials are found during construction in accordance with the

Massachusetts Contingency Plan (310 CMR 40.00). All construction and demolition activities will be managed in accordance with applicable Solid Waste Facilities regulations (310 CMR 16.00 and 310 CMR 19.00).

(NOTE: Asphalt pavement, brick, concrete and metal are banned from disposal at Massachusetts landfills and waste combustion facilities and wood is banned from disposal at Massachusetts landfills. See 310 CMR 19.017 for the complete list of banned materials.)

Will your project disturb asbestos containing materials?

Yes (Specify _____)
 No

If yes, please consult state asbestos requirements at <http://mass.gov/MassDEP/air/asbhom01.htm>

Describe anti-idling and other measures to limit emissions from construction equipment:

On and off-road idling will be restricted to the maximum extent practicable. All construction and demolition activities will be managed in accordance with applicable Air Pollution Control (310 CMR 7.01, 7.09-7.10).

DESIGNATED WILD AND SCENIC RIVER:

Is this project site located wholly or partially within a defined river corridor of a federally designated Wild and Scenic River or a state designated Scenic River?

Yes (Specify _____)
 No

If yes, specify name of river and designation:

If yes, does the project have the potential to impact any of the “outstandingly remarkable” resources of a federally Wild and Scenic River or the stated purpose of a state designated Scenic River?

Yes (Specify name of river and designations _____)
 No

If yes, will the project will result in any impacts to any of the designated “outstandingly remarkable” resources of the Wild and Scenic River or the stated purposes of a Scenic River.

Yes (Specify _____)
 No

If yes, describe the potential impacts to one or more of the “outstandingly remarkable” resources or stated purposes and mitigation measures proposed.

ATTACHMENTS:

1. List of all attachments to this document.
Refer to the Table of Contents
2. U.S.G.S. map (good quality color copy, 8-½ x 11 inches or larger, at a scale of 1:24,000) indicating the project location and boundaries.
Refer to Appendix A – Figure 1
3. Plan, at an appropriate scale, of existing conditions on the project site and its immediate environs, showing all known structures, roadways and parking lots, railroad rights-of-way, wetlands and water bodies, wooded areas, farmland, steep slopes, public open spaces, and major utilities.
Refer to Appendix B
4. Plan, at an appropriate scale, depicting environmental constraints on or adjacent to the project site such as Priority and/or Estimated Habitat of state-listed rare species, Areas of Critical Environmental Concern, Chapter 91 jurisdictional areas, Article 97 lands, wetland resource area delineations, water supply protection areas, and historic resources and/or districts.
Refer to Appendix A – Figure 2
5. Plan, at an appropriate scale, of proposed conditions upon completion of project (if construction of the project is proposed to be phased, there should be a site plan showing conditions upon the completion of each phase).
Refer to Appendix B
6. List of all agencies and persons to whom the proponent circulated the ENF, in accordance with 301 CMR 11.16(2).
Refer to Appendix D
7. List of municipal and federal permits and reviews required by the project, as applicable.
Refer to Appendix E
8. Printout of output report from RMA Climate Resilience Design Standards Tool, available [here](#).
Refer to Appendix F
9. Printout from the EEA [EJ Maps Viewer](#) showing the project location relative to Environmental Justice (EJ) Populations located in whole or in part within a 1-mile and 5-mile radius of the project site.
Refer to Appendix G – Figure 3
10. Site photographs.
Refer to Appendix C
11. Environmental Justice (EJ) Populations extended outreach materials.
Refer to Appendix G
12. Historical and Archaeological Information.
Refer to Appendix H
13. Public Notices.
Refer to Appendix I

LAND SECTION – all proponents must fill out this section

I. Thresholds / Permits

A. Does the project meet or exceed any review thresholds related to **land** (see 301 CMR 11.03(1))

Yes

No

If yes, specify each threshold:

II. Impacts and Permits

A. Describe, in acres, the current and proposed character of the project site, as follows:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Footprint of buildings	<u>0</u>	<u>0</u>	<u>0</u>
Internal roadways	<u>11.97</u>	<u>0.45</u>	<u>12.42</u>
Parking and other paved areas	<u>0</u>	<u>0</u>	<u>0</u>
Other altered areas	<u>0.63</u>	<u>-0.45</u>	<u>0.18</u>
Undeveloped areas	<u>0</u>	<u>0</u>	<u>0</u>
Total: Project Site Acreage	<u>12.60</u>	<u>0</u>	<u>12.60</u>

B. Has any part of the project site been in active agricultural use in the last five years?

Yes

No

If yes, how many acres of land in agricultural use (with prime state or locally important agricultural soils) will be converted to nonagricultural use?

C. Is any part of the project site currently or proposed to be in active forestry use?

Yes

No

If yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a forest management plan approved by the Department of Conservation and Recreation:

D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97?

Yes

No

If yes, describe:

E. Is any part of the project site currently subject to a conservation restriction, preservation restriction, agricultural preservation restriction or watershed preservation restriction?

Yes

No

If yes, does the project involve the release or modification of such restriction?

Yes

No

If yes, describe:

F. Does the project require approval of a new urban redevelopment project or a fundamental change in an existing urban redevelopment project under M.G.L.c.121A?

Yes

No

If yes, describe:

F. Does the project require approval of a new urban renewal plan or a major modification of an existing urban renewal plan under M.G.L.c.121B?

Yes

No

If yes, describe:

III. Consistency

A. Identify the current municipal comprehensive land use plan

Title: **Open Space and Recreation Plan**

Date: **September 1, 2015 – August 31, 2022**

Title: **Draft Community Development Action Plan**

Date: **2023-2024**

Title: **Safety Action Plan**

Date: **September 2022**

B. Describe the project's consistency with that plan with regard to:

1) economic development

The proposed project is consistent with the goals in the Draft Community Development Action Plan, including the goal to strengthen neighborhoods by improving the physical environment through enhancement of streets, parks, streetscapes, bikeways, and open space.

2) adequacy of infrastructure

The proposed project is consistent with the goal in the City of Springfield's Safety Action Plan to use data-informed analysis and community needs to identify and prioritize opportunities to reduce fatal and serious injury crashes and crash risk for all road users. The proposed project aims to enhance transportation infrastructure surrounding the X intersection.

3) open space impacts

The proposed project is consistent with goals in the City of Springfield's Open Space and Recreation Plan, including the goal to envision, promote, and create programs and projects that further healthy living in the city by creating safe access to recreational facilities. The proposed project includes improvements to pedestrian and bicycle facilities on Sumner Avenue, creating safer connectivity to Forest Park.

4) compatibility with adjacent land uses

The proposed project is compatible with adjacent land uses. There are no proposed changes to existing land use.

C. Identify the current Regional Policy Plan of the applicable Regional Planning Agency (RPA)

RPA: Pioneer Valley Planning Commission (PVPC)

Title: **Valley Vision 4: The Regional Land Use Plan for the Pioneer Valley**

Date: **February 2024**

D. Describe the project's consistency with that plan with regard to:

1) economic development _____

2) adequacy of infrastructure _____

3) open space impacts _____

The proposed project is consistent with the goals set forth in the PVPC's Valley Vision 4 Plan. Valley Vision 4 identifies the following goals for communities in the Pioneer Valley:

- **New development should be designed to enhance community character, maximize quality of life, and support a diversified economy**
- **A coordinated, multi-modal, environmentally sound transportation system which moves people and goods safely, dependably, and efficiently**
- **Build and maintain needed infrastructure, striving to promote smart, sustainable development**
- **Revitalize existing commercial and industrial centers**

RARE SPECIES SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **rare species or habitat** (see 301 CMR 11.03(2))? .

Yes

No

If yes, specify, in quantitative terms:

(NOTE: If you are uncertain, it is recommended that you consult with the Natural Heritage and Endangered Species Program (NHESP) prior to submitting the ENF.)

B. Does the project require any state permits related to **rare species or habitat**?

Yes

No

C. Does the project site fall within mapped rare species habitat (Priority or Estimated Habitat?) in the current Massachusetts Natural Heritage Atlas (attach relevant page)?

Yes

No

D. If you answered "No" to all questions A, B and C, proceed to the **Wetlands, Waterways, and Tidelands Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Rare Species section below.

II. Impacts and Permits

A. Does the project site fall within Priority or Estimated Habitat in the current Massachusetts Natural Heritage Atlas (attach relevant page)?

Yes

No

If yes,

1. Have you consulted with the Division of Fisheries and Wildlife Natural Heritage and Endangered Species Program (NHESP)?

Yes

No

If yes, have you received a determination as to whether the project will result in the "take" of a rare species?

Yes

No

If yes, attach the letter of determination to this submission.

2. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)?

Yes

No

If yes, provide a summary of proposed measures to minimize and mitigate rare species impacts

3. Which rare species are known to occur within the Priority or Estimated Habitat?

4. Has the site been surveyed for rare species in accordance with the Massachusetts Endangered Species Act?

Yes

No

5. If your project is within Estimated Habitat, have you filed a Notice of Intent or received an

Order of Conditions for this project?

Yes

No

If yes, did you send a copy of the Notice of Intent to the Natural Heritage and Endangered Species Program, in accordance with the Wetlands Protection Act regulations?

Yes

No

B. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)?

Yes

No

If yes, provide a summary of proposed measures to minimize and mitigate impacts to significant habitat:

WETLANDS, WATERWAYS, AND TIDELANDS SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wetlands, waterways, and tidelands** (see 301 CMR 11.03(3))?

- Yes
- No

If yes, specify, in quantitative terms:

C. Does the project require any state permits (or a local Order of Conditions) related to **wetlands, waterways, or tidelands**?

- Yes
- No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Water Supply Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wetlands, Waterways, and Tidelands Section below.

II. Wetlands Impacts and Permits

A. Does the project require a new or amended Order of Conditions under the Wetlands Protection Act (M.G.L. c.131A)?

- Yes
- No

If yes, has a Notice of Intent been filed?

- Yes
- No

If yes, list the date and MassDEP file number: _____;

If yes, has a local Order of Conditions been issued?

- Yes
- No

Was the Order of Conditions appealed?

- Yes
- No

Will the project require a Variance from the Wetlands regulations?

- Yes
- No

B. Describe any proposed permanent or temporary impacts to wetland resource areas located on the project site:

C. Estimate the extent and type of impact that the project will have on wetland resources, and indicate whether the impacts are temporary or permanent:

<u>Coastal Wetlands</u>	<u>Area (square feet) or Length (linear feet)</u>	<u>Temporary or Permanent Impact?</u>
Land Under the Ocean	_____	_____
Designated Port Areas	_____	_____
Coastal Beaches	_____	_____
Coastal Dunes	_____	_____
Barrier Beaches	_____	_____
Coastal Banks	_____	_____
Rocky Intertidal Shores	_____	_____
Salt Marshes	_____	_____

Land Under Salt Ponds	_____	_____
Land Containing Shellfish	_____	_____
Fish Runs	_____	_____
Land Subject to Coastal Storm Flowage	_____	_____

Inland Wetlands

Bank (lf)	_____	_____
Bordering Vegetated Wetlands	_____	_____
Isolated Vegetated Wetlands	_____	_____
Land under Water	_____	_____
Isolated Land Subject to Flooding	_____	_____
Bordering Land Subject to Flooding	_____	_____
Riverfront Area	_____	_____

D. Is any part of the project:

1. proposed as a **limited project**?

Yes

No

If yes, what is the area (in sf)? _____

2. the construction or alteration of a **dam**?

Yes

No

If yes, describe:

3. fill or structure in a **velocity zone** or **regulatory floodway**?

Yes

No

4. dredging or disposal of dredged material?

Yes

No

If yes, describe the volume of dredged material and the proposed disposal site:

6. a discharge to an **Outstanding Resource Water (ORW)** or an **Area of Critical Environmental Concern (ACEC)**?

Yes

No

7. subject to a wetlands restriction order?

Yes

No

If yes, identify the area (in sf):

8. located in buffer zones?

Yes

No

If yes, how much (in sf) _____

E. Will the project:

1. be subject to a local wetlands ordinance or bylaw?

Yes

No

2. alter any federally-protected wetlands not regulated under state law?

Yes

No
If yes, what is the area (sf)?

III. Waterways and Tidelands Impacts and Permits

A. Does the project site contain waterways or tidelands (including filled former tidelands) that are subject to the Waterways Act, M.G.L.c.91?

Yes
 No

If yes, is there a current Chapter 91 License or Permit affecting the project site?

Yes
 No

If yes, list the date and license or permit number and provide a copy of the historic map used to determine extent of filled tidelands:

B. Does the project require a new or modified license or permit under M.G.L.c.91?

Yes
 No

If yes, how many acres of the project site subject to M.G.L.c.91 will be for non-water-dependent use? Current ___ Change ___ Total ___

If yes, how many square feet of solid fill or pile-supported structures (in sf)?

C. For non-water-dependent use projects, indicate the following:

Area of filled tidelands on the site: _____

Area of filled tidelands covered by buildings: _____

For portions of site on filled tidelands, list ground floor uses and area of each use:

_____ Does the project include new non-water-dependent uses located over flowed tidelands?

Yes
 No

Height of building on filled tidelands _____

Also show the following on a site plan: Mean High Water, Mean Low Water, Water-dependent Use Zone, location of uses within buildings on tidelands, and interior and exterior areas and facilities dedicated for public use, and historic high and historic low water marks.

D. Is the project located on landlocked tidelands?

Yes
 No

If yes, describe the project's impact on the public's right to access, use and enjoy jurisdictional tidelands and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

E. Is the project located in an area where low groundwater levels have been identified by a municipality or by a state or federal agency as a threat to building foundations?

Yes
 No

If yes, describe the project's impact on groundwater levels and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

F. Is the project non-water-dependent **and** located on landlocked tidelands **or** waterways or tidelands subject to the Waterways Act **and** subject to a mandatory EIR?

Yes
 No

(NOTE: If yes, then the project will be subject to Public Benefit Review and Determination.)

G. Does the project include dredging?

Yes

No

If yes, answer the following questions:

What type of dredging? Improvement ___ Maintenance ___ Both ___

What is the proposed dredge volume, in cubic yards (cys) _____

What is the proposed dredge footprint ___length (ft) ___width (ft)___depth (ft);

Will dredging impact the following resource areas?

Intertidal Yes No; if yes, ___ sq ft

Outstanding Resource Waters Yes No; if yes, ___ sq ft

Other resource area (i.e. shellfish beds, eel grass beds) Yes No; if yes ___ sq ft

If yes to any of the above, have you evaluated appropriate and practicable steps to: 1) avoidance; 2) if avoidance is not possible, minimization; 3) if either avoidance or minimize is not possible, mitigation?

If no to any of the above, what information or documentation was used to support this determination?

Provide a comprehensive analysis of practicable alternatives for improvement dredging in accordance with 314 CMR 9.07(1)(b). Physical and chemical data of the sediment shall be included in the comprehensive analysis.

Sediment Characterization

Existing gradation analysis results?

Yes

No

If yes, provide results.

Existing chemical results for parameters listed in 314 CMR 9.07(2)(b)6?

Yes

No

If yes, provide results.

Do you have sufficient information to evaluate feasibility of the following management options for dredged sediment?

Yes

No

If yes, check the appropriate option.

Beach Nourishment

Unconfined Ocean Disposal

Confined Disposal:

Confined Aquatic Disposal (CAD)

Confined Disposal Facility (CDF)

Landfill Reuse in accordance with COMM-97-001

Shoreline Placement

Upland Material Reuse

In-State landfill disposal

Out-of-state landfill disposal

(NOTE: This information is required for a 401 Water Quality Certification.)

IV. Consistency:

A. Does the project have effects on the coastal resources or uses, and/or is the project located within the Coastal Zone?

Yes

No

If yes, describe these effects and the projects consistency with the policies of the Office of Coastal Zone Management:

B. Is the project located within an area subject to a Municipal Harbor Plan?

- Yes
- No

If yes, identify the Municipal Harbor Plan and describe the project's consistency with that plan:

WATER SUPPLY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **water supply** (see 301 CMR 11.03(4))?

Yes

No

If yes, specify, in quantitative terms:

B. Does the project require any state permits related to **water supply**?

Yes

No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Wastewater Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Water Supply Section below.

II. Impacts and Permits

A. Describe, in gallons per day (gpd), the volume and source of water use for existing and proposed activities at the project site:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Municipal or regional water supply	_____	_____	_____
Withdrawal from groundwater	_____	_____	_____
Withdrawal from surface water	_____	_____	_____
Interbasin transfer	_____	_____	_____

(NOTE: Interbasin Transfer approval will be required if the basin and community where the proposed water supply source is located is different from the basin and community where the wastewater from the source will be discharged.)

B. If the source is a municipal or regional supply, has the municipality or region indicated that there is adequate capacity in the system to accommodate the project?

Yes

No

C. If the project involves a new or expanded withdrawal from a groundwater or surface water source, has a pumping test been conducted?

Yes

No

If yes, attach a map of the drilling sites and a summary of the alternatives considered and the results. _____

D. What is the currently permitted withdrawal at the proposed water supply source (in gallons per day)? ___ Will the project require an increase in that withdrawal?

Yes

No

If yes, then how much of an increase (gpd)? _____

E. Does the project site currently contain a water supply well, a drinking water treatment facility, water main, or other water supply facility, or will the project involve construction of a new facility?

Yes

No

If yes, describe existing and proposed water supply facilities at the project site:

Permitted Existing Avg Project Flow Total

	<u>Flow</u>	<u>Daily Flow</u>		
Capacity of water supply well(s) (gpd)	_____	_____	_____	_____
Capacity of water treatment plant (gpd)	_____	_____	_____	_____

F. If the project involves a new interbasin transfer of water, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or proposed?

G. Does the project involve:

1. new water service by the Massachusetts Water Resources Authority or other agency of the Commonwealth to a municipality or water district?

- Yes
 No

2. a Watershed Protection Act variance?

- Yes
 No

If yes, how many acres of alteration?

3. a non-bridged stream crossing 1,000 or less feet upstream of a public surface drinking water supply for purpose of forest harvesting activities?

- Yes
 No

III. Consistency

Describe the project's consistency with water conservation plans or other plans to enhance water resources, quality, facilities and services:

WASTEWATER SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wastewater** (see 301 CMR 11.03(5))?

Yes

No

If yes, specify, in quantitative terms:

B. Does the project require any state permits related to **wastewater**?

Yes

No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Transportation -- Traffic Generation Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wastewater Section below.

II. Impacts and Permits

A. Describe the volume (in gallons per day) and type of disposal of wastewater generation for existing and proposed activities at the project site (calculate according to 310 CMR 15.00 for septic systems or 314 CMR 7.00 for sewer systems):

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Discharge of sanitary wastewater	_____	_____	_____
Discharge of industrial wastewater	_____	_____	_____
TOTAL	_____	_____	_____
	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Discharge to groundwater	_____	_____	_____
Discharge to outstanding resource water	_____	_____	_____
Discharge to surface water	_____	_____	_____
Discharge to municipal or regional wastewater facility	_____	_____	_____
TOTAL	_____	_____	_____

B. Is the existing collection system at or near its capacity?

Yes

No

If yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

C. Is the existing wastewater disposal facility at or near its permitted capacity?

Yes

No

If yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

D. Does the project site currently contain a wastewater treatment facility, sewer main, or other wastewater disposal facility, or will the project involve construction of a new facility?

- Yes
- No

If yes, describe as follows:

	<u>Permitted</u>	<u>Existing Avg Daily Flow</u>	<u>Project Flow</u>	<u>Total</u>
Wastewater treatment plant capacity (in gallons per day)	_____	_____	_____	_____

E. If the project requires an interbasin transfer of wastewater, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or new?

(NOTE: Interbasin Transfer approval may be needed if the basin and community where wastewater will be discharged is different from the basin and community where the source of water supply is located.)

F. Does the project involve new sewer service by the Massachusetts Water Resources Authority (MWRA) or other Agency of the Commonwealth to a municipality or sewer district?

- Yes
- No

G. Is there an existing facility, or is a new facility proposed at the project site for the storage, treatment, processing, combustion or disposal of sewage sludge, sludge ash, grit, screenings, wastewater reuse (gray water) or other sewage residual materials? ___ Yes ___ No; if yes, what is the capacity (tons per day):

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Storage	_____	_____	_____
Treatment	_____	_____	_____
Processing	_____	_____	_____
Combustion	_____	_____	_____
Disposal	_____	_____	_____

H. Describe the water conservation measures to be undertaken by the project, and other wastewater mitigation, such as infiltration and inflow removal.

III. Consistency

A. Describe measures that the proponent will take to comply with applicable state, regional, and local plans and policies related to wastewater management:

B. If the project requires a sewer extension permit, is that extension included in a comprehensive wastewater management plan?

- Yes
- No

If yes, indicate the EEA number for the plan and whether the project site is within a sewer service area recommended or approved in that plan:

TRANSPORTATION SECTION (TRAFFIC GENERATION)

I. Thresholds / Permit

A. Will the project meet or exceed any review thresholds related to **traffic generation** (see 301 CMR 11.03(6))?

Yes

No

If yes, specify, in quantitative terms:

B. Does the project require any state permits related to **state-controlled roadways**?

Yes

No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Roadways and Other Transportation Facilities Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Traffic Generation Section below.

II. Traffic Impacts and Permits

A. Describe existing and proposed vehicular traffic generated by activities at the project site:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Number of parking spaces	_____	_____	_____
Number of vehicle trips per day	_____	_____	_____
ITE Land Use Code(s):	_____	_____	_____

B. What is the estimated average daily traffic on roadways serving the site?

<u>Roadway</u>	<u>Existing</u>	<u>Change</u>	<u>Total</u>
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____

C. If applicable, describe proposed mitigation measures on state-controlled roadways that the project proponent will implement:

D. How will the project implement and/or promote the use of transit, pedestrian and bicycle facilities and services to provide access to and from the project site?

C. Is there a Transportation Management Association (TMA) that provides transportation demand management (TDM) services in the area of the project site?

Yes

No

If yes, describe if and how will the project will participate in the TMA:

D. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation facilities?

Yes

No

If yes, generally describe:

E. If the project will penetrate approach airspace of a nearby airport, has the proponent filed a Massachusetts Aeronautics Commission Airspace Review Form (780 CMR 111.7) and a Notice of Proposed Construction or Alteration with the Federal Aviation Administration (FAA) (CFR Title 14 Part 77.13, forms 7460-1 and 7460-2)?

III. Consistency

Describe measures that the proponent will take to comply with municipal, regional, state, and federal plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services:

TRANSPORTATION SECTION (ROADWAYS AND OTHER TRANSPORTATION FACILITIES)

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **roadways or other transportation facilities** (see 301 CMR 11.03(6))?

Yes

No

If yes, specify, in quantitative terms:

The proposed project exceeds 301 CMR 11.03(6)(b)(2)(b) - Construction, widening or maintenance of a roadway or its right-of-way that will cut five or more living public shade trees of 14 or more inches in diameter at breast height.

There are 169 existing trees within the project limits. The proposed project requires a total of 61 trees to be removed. A total of 118 trees would be planted as part of the proposed project, yielding a net gain of 57 trees within the project limits. See Appendix B for the Construction Plans which include locations of trees to be removed, and the Planting Plans that include locations of trees to be planted.

Below is a quantitative tree summary:

Roadway	Existing Trees within Project Limits	Removed Trees	Proposed Trees	Gain/Loss Trees
Sumner Ave East	23	8	15	7
Sumner Ave West	66	17	29	12
Belmont Ave East	24	13	21	8
Belmont Ave West	14	9	23	14
Dickinson St North	2	0	4	4
Dickinson St South	9	6	13	7
Oakland St	8	7	12	5
Ormond St	11	0	1	1
Commonwealth Ave	3	1	0	-1
Burlington St	5	0	0	0
Cliftwood St	4	0	0	0
Lenox St	0	0	0	0
Totals	169	61	118	57

B. Does the project require any state permits related to **roadways or other transportation facilities**?

Yes

No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Energy Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Roadways Section below.

II. Transportation Facility Impacts

A. Describe existing and proposed transportation facilities in the immediate vicinity of the project site:

Existing:

- History of crashes in this area, and "The X" intersection was identified by MassDOT as a Statewide Top 200 Crash Intersection in the 2016 Top Crash Locations Report
- Traffic delays
- Inadequate pedestrian and bicycle connections
- Outdated signal equipment
- Cut-through traffic

Proposed:

- Re-alignment of Belmont Avenue at "The X" intersection and the conversion to a one-way street, going away from "The X" intersection until reaching Burlington Street to the west and Commonwealth Avenue to the east
- Proposed conversion of intersection of Belmont Avenue and Commonwealth Avenue to a roundabout
- Intersection upgrades
- Bicycle accommodations
- Roadway widening and center median construction on Sumner Avenue
- Sidewalk and wheelchair ramp reconstruction

The proposed project includes improves to the project area by adding turn lanes on Sumner Avenue, concrete and raised vegetated median islands to separate traffic, reconfiguring Belmont Avenue into a one-lane one-way street northbound between Sumner Avenue and Burlington Street and southbound between Sumner Avenue and Commonwealth Avenue, adding signalized driveway exit for Trinity United Methodist Church onto Sumner Avenue, reconfiguring Cliftwood Street to include a single left-turn lane and a through-right lane onto Sumner Avenue, modifying the T intersection at Belmont Avenue and Burlington Street to include bump outs, and reconfiguring the Belmont Avenue and Commonwealth Avenue intersection into a roundabout to improve traffic flow.

Proposed pedestrian and bicycle improvements include:

- Addition of a crosswalk with a rectangular rapid flashing beacon on Sumner Avenue, west of the Forest Park entrance
- Addition of crosswalks at Cliftwood Street and Sumner Avenue, Belmont Avenue and Burlington Street, and Belmont Avenue and Ormond Street
- Use of high visibility, more durable, recessed, reflective crosswalks as opposed to low visibility, standard painted crosswalks
- Reconfiguration of existing sidewalk on the north side of Sumner Avenue into an 8-foot wide shared-use path between Cliftwood Street and the westernmost project limits
- Reconfiguration of existing sidewalk on the south side of Sumner Avenue into an 8-foot wide shared-use path between the westernmost project limits and Parkwood Street
- Addition of a 5-foot wide, on-street, painted bike lane on the south side of Sumner

Avenue between Parkwood Street and Dickinson Street with a 5-foot-wide exit ramp from the shared-use path

- **Addition of a 5-foot wide, on-street, painted bike lane on the north side of Sumner Avenue between Ventura Street and Cliftwood Avenue with a 5-foot-wide entrance ramp onto the shared-use path**
- **Addition of a 5-foot wide on-street bike lane on Belmont Avenue northbound from Sumner Avenue to Burlington Street**
- **Addition of pedestrian plazas at Sumner Avenue and Belmont Avenue**

B. Will the project involve any

- | | |
|--|-----------|
| 1. Alteration of bank or terrain (in linear feet)? | <u>0</u> |
| 2. Cutting of living public shade trees (number)? | <u>61</u> |
| 3. Elimination of stone wall (in linear feet)? | <u>0</u> |

III. Consistency -- Describe the project's consistency with other federal, state, regional, and local plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services, including consistency with the applicable regional transportation plan and the Transportation Improvements Plan (TIP), the State Bicycle Plan, and the State Pedestrian Plan:

The proposed project includes upgrades to the intersection and road alignment to create safer travel conditions. Additionally, the proposed project includes improved pedestrian and bicycle transportation facilities and services. The proposed improvements align with the goals set forth in federal, state, regional, and local plans and policies to create safer corridors and travel options for all users and mobilities.

ENERGY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **energy** (see 301 CMR 11.03(7))?

Yes

No

If yes, specify, in quantitative terms:

B. Does the project require any state permits related to **energy**?

Yes

No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Air Quality Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Energy Section below.

II. Impacts and Permits

A. Describe existing and proposed energy generation and transmission facilities at the project site:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Capacity of electric generating facility (megawatts)	_____	_____	_____
Length of fuel line (in miles)	_____	_____	_____
Length of transmission lines (in miles)	_____	_____	_____
Capacity of transmission lines (in kilovolts)	_____	_____	_____

B. If the project involves construction or expansion of an electric generating facility, what are:

1. the facility's current and proposed fuel source(s)?
2. the facility's current and proposed cooling source(s)?

C. If the project involves construction of an electrical transmission line, will it be located on a new, unused, or abandoned right of way?

Yes

No

If yes, please describe:

D. Describe the project's other impacts on energy facilities and services:

III. Consistency

Describe the project's consistency with state, municipal, regional, and federal plans and policies for enhancing energy facilities and services:

AIR QUALITY SECTION

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **air quality** (see 301 CMR 11.03(8))?

Yes

No

If yes, specify, in quantitative terms:

B. Does the project require any state permits related to **air quality**?

Yes

No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Solid and Hazardous Waste Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Air Quality Section below.

II. Impacts and Permits

A. Does the project involve construction or modification of a major stationary source (see 310 CMR 7.00, Appendix A)?

Yes

No

If yes, describe existing and proposed emissions (in tons per day) of:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Particulate matter	_____	_____	_____
Carbon monoxide	_____	_____	_____
Sulfur dioxide	_____	_____	_____
Volatile organic compounds	_____	_____	_____
Oxides of nitrogen	_____	_____	_____
Lead	_____	_____	_____
Any hazardous air pollutant	_____	_____	_____
Carbon dioxide	_____	_____	_____

B. Describe the project's other impacts on air resources and air quality, including noise impacts:

III. Consistency

A. Describe the project's consistency with the State Implementation Plan:

B. Describe measures that the proponent will take to comply with other federal, state, regional, and local plans and policies related to air resources and air quality:

SOLID AND HAZARDOUS WASTE SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **solid or hazardous waste** (see 301 CMR 11.03(9))?

Yes

No

If yes, specify, in quantitative terms:

B. Does the project require any state permits related to **solid and hazardous waste**?

Yes

No

If yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Historical and Archaeological Resources Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Solid and Hazardous Waste Section below.

II. Impacts and Permits

A. Is there any current or proposed facility at the project site for the storage, treatment, processing, combustion or disposal of solid waste?

Yes

No

If yes, what is the volume (in tons per day) of the capacity:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Storage	_____	_____	_____
Treatment, processing	_____	_____	_____
Combustion	_____	_____	_____
Disposal	_____	_____	_____

B. Is there any current or proposed facility at the project site for the storage, recycling, treatment or disposal of hazardous waste? ___ Yes ___ No; if yes, what is the volume (in tons or gallons per day) of the capacity:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Storage	_____	_____	_____
Recycling	_____	_____	_____
Treatment	_____	_____	_____
Disposal	_____	_____	_____

C. If the project will generate solid waste (for example, during demolition or construction), describe alternatives considered for re-use, recycling, and disposal:

D. If the project involves demolition, do any buildings to be demolished contain asbestos?

Yes

No

E. Describe the project's other solid and hazardous waste impacts (including indirect impacts):

III. Consistency

Describe measures that the proponent will take to comply with the State Solid Waste Master Plan:

HISTORICAL AND ARCHAEOLOGICAL RESOURCES SECTION

I. Thresholds / Impacts

A. Have you consulted with the Massachusetts Historical Commission?

Yes

No

If yes, attach correspondence.

The project received a concurrence of a Section 106 finding of No-Adverse-Effect from the Massachusetts Historic Commission (MHC) on 09/27/2022. For more information, refer to Appendix H.

For project sites involving lands under water, have you consulted with the Massachusetts Board of Underwater Archaeological Resources? Yes No N/A; if yes, attach correspondence

B. Is any part of the project site a historic structure, or a structure within a historic district, in either case listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth?

Yes

No

If yes, does the project involve the demolition of all or any exterior part of such historic structure?

Yes

No

If yes, please describe:

C. Is any part of the project site an archaeological site listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth?

Yes

No

If yes, does the project involve the destruction of all or any part of such archaeological site?

Yes

No

If yes, please describe:

D. If you answered "No" to all parts of both questions A, B and C, proceed to the **Attachments and Certifications** Sections. If you answered "Yes" to any part of either question A or question B, fill out the remainder of the Historical and Archaeological Resources Section below.

II. Impacts

Describe and assess the project's impacts, direct and indirect, on listed or inventoried historical and archaeological resources:

No impacts to historical or archaeological resources are anticipated. The project received a concurrence of a Section 106 finding of No-Adverse-Effect from the Massachusetts Historic Commission (MHC) on 09/27/2022. Refer to Appendix H for the concurrence.

III. Consistency

Describe measures that the proponent will take to comply with federal, state, regional, and local plans and policies related to preserving historical and archaeological resources:

If historical and archaeological resources are encountered during the course of the project, the selected contractor shall take steps to limit adverse effects and notify the SHPO and the

Massachusetts Historical Commission (as well as other appropriate agencies) immediately, in accordance with state, regional, and local plans and policies.

CLIMATE CHANGE ADAPTATION AND RESILIENCY SECTION

This section of the Environmental Notification Form (ENF) solicits information and disclosures related to climate change adaptation and resiliency, in accordance with the MEPA Interim Protocol on Climate Change Adaptation and Resiliency (the “MEPA Interim Protocol”), effective October 1, 2021. The Interim Protocol builds on the analysis and recommendations of the 2018 Massachusetts Integrated State Hazard Mitigation and Climate Adaptation Plan (SHMCAP), and incorporates the efforts of the Resilient Massachusetts Action Team (RMAT), the inter-agency steering committee responsible for implementation, monitoring, and maintenance of the SHMCAP, including the “Climate Resilience Design Standards and Guidelines” project. The RMAT team recently released the RMAT Climate Resilience Design Standards Tool, which is available [here](#).

The MEPA Interim Protocol is intended to gather project-level data in a standardized manner that will both inform the MEPA review process and assist the RMAT team in evaluating the accuracy and effectiveness of the RMAT Climate Resilience Design Standards Tool. Once this testing process is completed, the MEPA Office anticipates developing a formal Climate Change Adaptation and Resiliency Policy through a public stakeholder process. Questions about the RMAT Climate Resilience Design Standards Tool can be directed to rmat@mass.gov.

All Proponents must complete the following section, referencing as appropriate the results of the output report generated by the RMAT Climate Resilience Design Standards Tool and attached to the ENF. In completing this section, Proponents are encouraged, but not required at this time, to utilize the recommended design standards and associated Tier 1/2/3 methodologies outlined in the RMAT Climate Resilience Design Standards Tool to analyze the project design. However, Proponents are requested to respond to a [user feedback survey](#) on the RMAT website or to provide feedback to rmat@mass.gov, which will be used by the RMAT team to further refine the tool. Proponents are also encouraged to consult general guidance and best practices as described in the [RMAT Climate Resilience Design Guidelines](#).

Climate Change Adaptation and Resiliency Strategies

I. Has the project taken measures to adapt to climate change for all of the climate parameters analyzed in the RMAT Climate Resilience Design Standards Tool (sea level rise/storm surge, extreme precipitation (urban or riverine flooding), extreme heat)?

Yes

No

Note: Climate adaptation and resiliency strategies include actions that seek to reduce vulnerability to anticipated climate risks and improve resiliency for future climate conditions. Examples of climate adaptation and resiliency strategies include flood barriers, increased stormwater infiltration, living shorelines, elevated infrastructure, increased tree canopy, etc. Projects should address any planning priorities identified by the affected municipality through the Municipal Vulnerability Preparedness (MVP) program or other planning efforts, and should consider a flexible adaptive pathways approach, an adaptation best practice that encourages design strategies that adapt over time to respond to changing climate conditions. General guidance and best practices for designing for climate risk are described in the [RMAT Climate Resilience Design Guidelines](#).

A. If no, explain why.

While not quantified specifically to a planning horizon identified using the RMAT Climate Resilience Design Standards Tool, the proposed project incorporates actions that will reduce vulnerability to anticipated climate risks and improve resiliency for future climate conditions. The proposed project includes adding amenities for multi-modal transport (e.g., improved pedestrian facilities and bicycle accommodations), which contribute to reducing GHG emissions by providing safe options for alternative modes of transport and reducing vehicle miles traveled (VMT). Additionally, while the proposed project removes trees to accommodate the construction

of improved bicycle and pedestrian amenities, more trees will be planted than previously existed, resulting in a net increase in trees around the project site. Additional trees will help to sequester carbon and reduce localized heat island effect. Refer to Appendix F for the RMA Climate Resilience Design Standards Tool report.

B. If yes, describe the measures the project will take, including identifying the planning horizon and climate data used in designing project components. If applicable, specify the return period and design storm used (e.g., 100-year, 24-hour storm).

C. Is the project contributing to regional adaptation strategies?

Yes

No

If yes, describe.

The project contributes to the Pioneer Valley GHG Reduction Target by reducing GHG emissions from the transportation sector. Additionally, the project aligns with several goals set in the City of Springfield's Climate Action and Resilience Plan including: increase the number of residents who commute to work by means other than single-vehicle, improve air quality, reduce vulnerability/enhance resilience of existing and planned infrastructure, and increased tree canopy cover.

II. Has the Proponent considered alternative locations for the project in light of climate change risks?

Yes

No

A. If no, explain why.

The proposed project is limited to the area of the "X" and abutting intersections. There is no feasible off-site alternative.

B. If yes, describe alternatives considered.

III. Is the project located in Land Subject to Coastal Storm Flowage (LSCSF) or Bordering Land Subject to Flooding (BLSF) as defined in the Wetlands Protection Act?

Yes

No

If yes, describe how/whether proposed changes to the site's topography (including the addition of fill) will result in changes to floodwater flow paths and/or velocities that could impact adjacent properties or the functioning of the floodplain. General guidance on providing this analysis can be found in the CZM/MassDEP Coastal Wetlands Manual, available [here](#).

ENVIRONMENTAL JUSTICE SECTION

I. Identifying Characteristics of EJ Populations

- A. If an Environmental Justice (EJ) population has been identified as located in whole or in part within 5 miles of the project site, describe the characteristics of each EJ populations as identified in the EJ Maps Viewer (i.e., the census block group identification number and EJ characteristics of "Minority," "Minority and Income," etc.). Provide a breakdown of those EJ populations within 1 mile of the project site, and those within 5 miles of the site.

There are 150 census block groups that meet Environmental Justice (EJ) population criteria within five (5) miles of the project limits, 34 of which are located within one (1) mile of the project limits. The environmental justice populations within the DGA of 1 mile have identifying criteria of Minority; Minority and Income; Minority, Income and English Isolation. The environmental justice populations that the project intersects (i.e., within the project limits) have identifying criteria of Minority, and Minority and Income. These environmental justice populations within the project limits have median household incomes ranging from \$28,700 to \$75,129 and total minority populations between 65% and 87%. See below for a Summary of EJ Characteristics within the vicinity of the project site.

Summary of Environmental Justice (EJ) Characteristics within the Vicinity of the Project Site

Block Group	Census Tract	Municipality	County	EJ Characteristic	1 Mile	5 miles
2	8001	Springfield	Hampden	Minority and income		X
3	8001	Springfield	Hampden	Minority and income		X
1	8001.01	Springfield	Hampden	Minority and income		X
2	8002	Springfield	Hampden	Minority		X
3	8002	Springfield	Hampden	Minority		X
4	8002	Springfield	Hampden	Minority and income		X
5	8002	Springfield	Hampden	Minority and income		X
1	8002.01	Springfield	Hampden	Minority and income		X
1	8002.02	Springfield	Hampden	Minority and income		X
1	8003	Springfield	Hampden	Minority		X
2	8003	Springfield	Hampden	Minority and income		X
3	8003	Springfield	Hampden	Minority		X
4	8003	Springfield	Hampden	Minority and income		X
1	8004	Springfield	Hampden	Minority, income and English isolation		X
2	8004	Springfield	Hampden	Minority, income and English isolation		X
3	8004	Springfield	Hampden	Minority		X
4	8004	Springfield	Hampden	Minority and income		X
5	8004	Springfield	Hampden	Minority, income and English isolation		X
1	8005	Springfield	Hampden	Minority, income and English isolation		X
2	8005	Springfield	Hampden	Minority		X
3	8005	Springfield	Hampden	Minority		X
1	8006	Springfield	Hampden	Minority, income and English isolation		X
2	8006	Springfield	Hampden	Minority, income and English isolation		X
3	8006	Springfield	Hampden	Minority, income and English isolation		X
1	8007	Springfield	Hampden	Minority, income and English isolation		X

Block Group	Census Tract	Municipality	County	EJ Characteristic	1 Mile	5 miles
2	8007	Springfield	Hampden	Minority, income and English isolation		X
1	8008	Springfield	Hampden	Minority, income and English isolation		X
2	8008	Springfield	Hampden	Minority, income and English isolation		X
1	8009	Springfield	Hampden	Minority, income and English isolation		X
2	8009	Springfield	Hampden	Minority, income and English isolation		X
3	8009	Springfield	Hampden	Minority and income		X
1	8011.01	Springfield	Hampden	Minority, income and English isolation		X
1	8011.02	Springfield	Hampden	Minority and income		X
2	8011.02	Springfield	Hampden	Minority, income and English isolation		X
1	8012	Springfield	Hampden	Minority, income and English isolation		X
2	8012	Springfield	Hampden	Minority and income		X
3	8012	Springfield	Hampden	Minority and income		X
1	8013	Springfield	Hampden	Minority, income and English isolation		X
2	8013	Springfield	Hampden	Minority and income		X
3	8013	Springfield	Hampden	Minority and income		X
4	8013	Springfield	Hampden	Minority		X
2	8014	Springfield	Hampden	Minority, income and English isolation		X
1	8014.01	Springfield	Hampden	Minority and income		X
1	8014.02	Springfield	Hampden	Minority and income		X
2	8014.02	Springfield	Hampden	Minority and income		X
2	8015	Springfield	Hampden	Minority		X
3	8015	Springfield	Hampden	Minority		X
4	8015	Springfield	Hampden	Minority		X
1	8015.01	Springfield	Hampden	Minority and income		X
1	8015.02	Springfield	Hampden	Minority and income		X
2	8015.02	Springfield	Hampden	Minority and income		X
3	8015.02	Springfield	Hampden	Minority, income and English isolation		X

Block Group	Census Tract	Municipality	County	EJ Characteristic	1 Mile	5 miles
1	8015.03	Springfield	Hampden	Minority and income		X
2	8015.03	Springfield	Hampden	Minority and income		X
3	8015.03	Springfield	Hampden	Minority		X
1	8016	Springfield	Hampden	Minority		X
2	8016	Springfield	Hampden	Minority		X
3	8016	Springfield	Hampden	Minority and income		X
4	8016	Springfield	Hampden	Minority and income		X
1	8016.02	Springfield	Hampden	Minority and income		X
2	8016.02	Springfield	Hampden	Minority		X
3	8016.02	Springfield	Hampden	Minority		X
1	8016.03	Springfield	Hampden	Minority		X
2	8016.03	Springfield	Hampden	Minority		X
1	8016.04	Springfield	Hampden	Minority		X
2	8016.04	Springfield	Hampden	Minority		X
1	8016.05	Springfield	Hampden	Minority and income		X
2	8016.05	Springfield	Hampden	Minority		X
3	8016.05	Springfield	Hampden	Minority		X
1	8017	Springfield	Hampden	Minority and income		X
2	8017	Springfield	Hampden	Minority and income		X
3	8017	Springfield	Hampden	Minority and income		X
4	8017	Springfield	Hampden	Minority and income		X
5	8017	Springfield	Hampden	Minority and income	X	
6	8017	Springfield	Hampden	Minority and income		X
1	8018	Springfield	Hampden	Minority and income		X
2	8018	Springfield	Hampden	Minority and income		X
3	8018	Springfield	Hampden	Minority and income	X	
4	8018	Springfield	Hampden	Minority, income and English isolation		X

Block Group	Census Tract	Municipality	County	EJ Characteristic	1 Mile	5 miles
5	8018	Springfield	Hampden	Minority and income	X	
1	8019	Springfield	Hampden	Minority and income	X	
2	8019	Springfield	Hampden	Minority and income	X	
1	8019.02	Springfield	Hampden	Minority, income and English isolation		X
2	8019.02	Springfield	Hampden	Minority and income		X
3	8019.02	Springfield	Hampden	Minority, income and English isolation	X	
1	8020	Springfield	Hampden	Minority, income and English isolation		X
2	8020	Springfield	Hampden	Minority, income and English isolation	X	
3	8020	Springfield	Hampden	Minority, income and English isolation	X	
1	8021	Springfield	Hampden	Minority and income	X	
2	8021	Springfield	Hampden	Minority	X	
3	8021	Springfield	Hampden	Minority	X	
4	8021	Springfield	Hampden	Minority	X	
5	8021	Springfield	Hampden	Minority and income	X	
6	8021	Springfield	Hampden	Minority and income	X	
1	8022	Springfield	Hampden	Minority and income	X	
2	8022	Springfield	Hampden	Minority, income and English isolation	X	
3	8022	Springfield	Hampden	Minority and income	X	
1	8023	Springfield	Hampden	Minority and income	X	
2	8023	Springfield	Hampden	Minority	X	
3	8023	Springfield	Hampden	Minority, income and English isolation	X	
4	8023	Springfield	Hampden	Minority and income	X	
5	8023	Springfield	Hampden	Minority and income	X	
1	8024	Springfield	Hampden	Minority		X
2	8024	Springfield	Hampden	Minority		X
3	8024	Springfield	Hampden	Minority	X	
4	8024	Springfield	Hampden	Minority and income	X	

Block Group	Census Tract	Municipality	County	EJ Characteristic	1 Mile	5 miles
1	8025	Springfield	Hampden	Minority		X
2	8025	Springfield	Hampden	Minority		X
3	8025	Springfield	Hampden	Minority and income		X
4	8025	Springfield	Hampden	Minority	X	
5	8025	Springfield	Hampden	Minority and income	X	
6	8025	Springfield	Hampden	Minority	X	
1	8026	Springfield	Hampden	Minority and income	X	
2	8026	Springfield	Hampden	Minority	X	
3	8026	Springfield	Hampden	Minority and income	X	
4	8026	Springfield	Hampden	Minority and income	X	
5	8026	Springfield	Hampden	Minority and income	X	
6	8026	Springfield	Hampden	Minority	X	
1	8026.02	Springfield	Hampden	Minority	X	
1	8107	Chicopee	Hampden	Minority and income		X
2	8107	Chicopee	Hampden	Minority		X
3	8107	Chicopee	Hampden	Minority and income		X
4	8107	Chicopee	Hampden	Minority and income		X
5	8107	Chicopee	Hampden	Minority		X
1	8108	Chicopee	Hampden	Minority and income		X
2	8108	Chicopee	Hampden	Minority and income		X
3	8108	Chicopee	Hampden	Minority		X
1	8109	Chicopee	Hampden	Minority and income		X
2	8109	Chicopee	Hampden	Minority and income		X
1	8109.02	Chicopee	Hampden	Minority		X
2	8109.02	Chicopee	Hampden	Minority		X
3	8109.02	Chicopee	Hampden	Minority and income		X
4	8109.02	Chicopee	Hampden	Minority and income		X

Block Group	Census Tract	Municipality	County	EJ Characteristic	1 Mile	5 miles
4	8110	Chicopee	Hampden	Income		X
1	8122	West Springfield	Hampden	Minority and income		X
2	8122	West Springfield	Hampden	Minority and income		X
3	8122	West Springfield	Hampden	Minority and income		X
2	8122.02	West Springfield	Hampden	Income		X
3	8122.02	West Springfield	Hampden	Minority and income		X
4	8122.02	West Springfield	Hampden	Minority and income		X
1	8123	West Springfield	Hampden	Minority and income		X
2	8123	West Springfield	Hampden	Minority and income		X
3	8123	West Springfield	Hampden	Minority and income		X
4	8123	West Springfield	Hampden	Minority and income		X
5	8123	West Springfield	Hampden	Minority and income		X
1	8124.03	West Springfield	Hampden	Minority		X
2	8124.03	West Springfield	Hampden	Minority and income		X
1	8124.04	West Springfield	Hampden	Minority		X
2	8132.07	Agawam	Hampden	Income		X
2	8132.08	Agawam	Hampden	Income		X

- B. Identify all languages identified in the “Languages Spoken in Massachusetts” tab of the EJ Maps Viewer as spoken by 5 percent or more of the EJ population who also identify as not speaking English “very well.” The languages should be identified for each census tract located in whole or in part within 1 mile and 5 miles of the project site, regardless of whether such census tract contains any designated EJ populations.

Languages spoken by 5 percent or more of the EJ population who also identify as not speaking English “very well” include Spanish or Spanish Creole. See below for a Summary of Languages Spoken within the vicinity of the project site.

Summary of Languages Spoken within the Vicinity of the Project Site

Census Tract	Municipality	County	Language	1 mile	5 miles
8001.01	Springfield	Hampden	Spanish or Spanish Creole		X
8002.01	Springfield	Hampden	Spanish or Spanish Creole		X
8002.02	Springfield	Hampden	Spanish or Spanish Creole		X
8003	Springfield	Hampden	Spanish or Spanish Creole		X
8004	Springfield	Hampden	Spanish or Spanish Creole		X
8005	Springfield	Hampden	Spanish or Spanish Creole		X
8006	Springfield	Hampden	Spanish or Spanish Creole		X
8007	Springfield	Hampden	Spanish or Spanish Creole		X
8008	Springfield	Hampden	Spanish or Spanish Creole		X
8009	Springfield	Hampden	Spanish or Spanish Creole		X
8011.01	Springfield	Hampden	Spanish or Spanish Creole		X
8011.02	Springfield	Hampden	Spanish or Spanish Creole		X
8012	Springfield	Hampden	Spanish or Spanish Creole		X
8013	Springfield	Hampden	Spanish or Spanish Creole		X
8014.01	Springfield	Hampden	Spanish or Spanish Creole		X
8015.01	Springfield	Hampden	Spanish or Spanish Creole		X
8015.02	Springfield	Hampden	Spanish or Spanish Creole		X
8015.03	Springfield	Hampden	Spanish or Spanish Creole		X
8012.02	Springfield	Hampden	Spanish or Spanish Creole		X
8016.03	Springfield	Hampden	Spanish or Spanish Creole		X
8018	Springfield	Hampden	Spanish or Spanish Creole	X	
8019.01	Springfield	Hampden	Spanish or Spanish Creole	X	
8019.02	Springfield	Hampden	Spanish or Spanish Creole		X
8020	Springfield	Hampden	Spanish or Spanish Creole		X
8021	Springfield	Hampden	Spanish or Spanish Creole	X	
8022	Springfield	Hampden	Spanish or Spanish Creole	X	

Census Tract	Municipality	County	Language	1 mile	5 miles
8023	Springfield	Hampden	Spanish or Spanish Creole	X	
8026.01	Springfield	Hampden	Spanish or Spanish Creole	X	
8122.02	Springfield	Hampden	Spanish or Spanish Creole		X
8123	Springfield	Hampden	Spanish or Spanish Creole		X

- C. If the list of languages identified under Section I.B. has been modified with approval of the EEA EJ Director, provide a list of approved languages that the project will use to provide public involvement opportunities during the course of MEPA review. If the list has been expanded by the Proponent (without input from the EEA EJ Director), provide a list of the additional languages that will be used to provide public involvement opportunities during the course of MEPA review as required by Part II of the MEPA Public Involvement Protocol for Environmental Justice Populations (“MEPA EJ Public Involvement Protocol”). If the project is exempt from Part II of the protocol, please specify.

Additional languages used to provide public involvement opportunities during the course of the MEPA review (as expanded by the Proponent) include Vietnamese. The City of Springfield Planning Department, Board of Health, and School District officials were contacted to get a better understanding of additional languages commonly spoken in the area of the project site that may not appear on the EJ Maps Viewer. Each individual contacted mentioned Vietnamese as being a common language spoken in the area; therefore, Vietnamese was added to the list of languages used for public engagement and this was approved during the MEPA pre-app meeting.

II. Potential Effects on EJ Populations

- A. If an EJ population has been identified using the EJ Maps Viewer within 1 mile of the project site, describe the likely effects of the project (both adverse and beneficial) on the identified EJ population(s).

The Massachusetts Department of Public Health (DPH) EJ Tool was used to identify whether municipalities or census tracts that include one or more of the identified EJ populations exhibited one or more of four “vulnerable health EJ criteria.” The EJ populations within a 1-mile and 5-mile radius of the project site do exhibit health indicators that place an “unfair or inequitable” environmental burden and related public health consequences to these communities. However, the project that has been proposed will not have an adverse impact on the health of nearby environmental justice communities.

According to the DPH EJ Tool, Springfield exhibits all four “vulnerable health EJ criteria,” including elevated blood lead prevalence, low birth weight, heart attack, and childhood asthma. It is not anticipated that any of these vulnerable health EJ criteria will be exacerbated by the proposed project.

The project is anticipated to result in long-term benefits that promote improved health outcomes. The reduced traffic congestion from the road reconfiguration is anticipated to result in improved air quality compared to existing conditions. Also, the addition of 57 trees will increase the potential for trees to remove particles and gases from the atmosphere that could exacerbate asthma. The additions and/or improvements to pedestrian and bicycle access will promote opportunities for physical activity in the project area. These improvements enhance opportunities to decrease the risk of heart disease, as not getting enough exercise can lead to heart disease.

Research conducted using MADPH’s Environmental Justice Tool indicated that within the municipality identified above the Elevated Blood Lead Prevalence per 1,000 for the years 2016 – 2020 was 32. The data also indicated that the Low Birth Weight Rate per 10,000 for the years

2011 – 2015 was 255. The Pediatric Asthma Emergency Department Visit Rate per 10,000 and Heart Attack Rate per 10,000 are 221 and 36 respectively.

Second, other layers of the DPH Tool were consulted to identify other potential sources of pollution within the boundaries of the EJ populations that fall within a 1-mile radius of the project site. Areas within a 1 and 5- miles radius of the site do experience unfair and inequitable environmental burdens; but again, none of these burdens will be exacerbated by the proposed project.

The proposed project will result in long term environmental and public health benefits. The project is designed to address safety and accessibility deficiencies and to reduce traffic congestion and enhanced pedestrian and bicycle amenities will result in improved air quality. The stormwater management improvements will result in improved water quality. Creating a safe, multi-modal streetscape is conducive to healthy living.

The proposed project will result in temporary construction-period impacts on air quality resulting from increased noise and the transport and operation of construction equipment. Diesel emissions resulting from transport and operation of equipment will result in a minor and temporary increase in pollution generation resulting from the project. Given that access to the area will need to be restricted to a certain degree for construction work to be completed safely, and that certain heavy equipment is required to complete roadway construction, these temporary impacts are unavoidable but will be minimized to the extent practicable.

To mitigate emissions, on and off-road idling will be restricted to the maximum extent practicable, and contractors will be encouraged to use construction equipment with engines manufactured to Tier 4 federal emission standards. To mitigate noise, contractors will be required to comply with the Springfield Noise Ordinance. Operation of equipment will be limited to between 7:00 AM and 3:30 PM from Monday to Friday. The proposed project area will be made accessible to the maximum extent possible with police officer or flagger controlled, alternating, single-lane traffic control and restriction of work in traveled ways to non-peak hours (9:00 AM to 3:00 PM).

The Contractor will be required to provide safe and convenient access to all abutters during the prosecution of the work. Necessary access for fire apparatus and other emergency vehicles shall be maintained at all times. The Contractor shall pay particular attention to the project's Transportation Management Plan, which shall be detailed and followed relative to construction work staging and safe maintenance of traffic.

Additional project environmental impacts include cutting of 61 public shade trees with a DBH greater than 14", which could impact heat conditions in the project area. Satellite imagery and land use coverage (MassMapper) of the project area show that the existing environment is predominantly built and or paved impervious surface, with an abundance of forested area located to the southwest of the project area within Forest Park. The planned cutting of public shade trees may have impacts on local heat conditions directly within the project area. To mitigate these impacts, the project plans to plant 118 trees, resulting in a net gain of 57 trees. Because there is a commitment to plant 118 trees to mitigate this impact, it has been determined that the project is not reasonably likely to negatively affect environmental justice populations within 1-mile proximity to the project.

- B. If an EJ population has been identified using the EJ Maps Viewer within 5 miles of the project site, will the project: (i) meet or exceed MEPA review thresholds under 301 CMR 11.03(8)(a)-

(b)

Yes

No

or (ii) generate 150 or more new average daily trips (adt) of diesel vehicle traffic, excluding public transit trips, over a duration of 1 year or more.

Yes

No

- C. If you answered “Yes” to either question in Section II.B., describe the likely effects of the project (both adverse and beneficial) on the identified EJ population(s).

III. Public Involvement Activities

- A. Provide a description of activities conducted prior to filing to promote public involvement by EJ populations, in accordance with Part II of the MEPA EJ Public Involvement Protocol. In particular:
1. If advance notification was provided under Part II.A., attach a copy of the Environmental Justice Screening Form and provide list of CBOs/tribes contacted (with dates). Copies of email correspondence can be attached in lieu of a separate list.
 2. State how CBOs and tribes were informed of ways to request a community meeting, and if any meeting was requested. If public meetings were held, describe any issues of concern that were raised at such meetings, and any steps taken (including modifications to the project design) to address such concerns.

A design public hearing for the proposed project was held on September 17, 2019 at the Forest Park Middle School Auditorium. The public notice for the design public hearing indicated that any opinions or comments raised at the meeting would be analyzed and considered to the maximum extent possible. The notice also stated that reasonable accommodations and translation services for the public hearing, including but not limited to: sign language and non-English interpreters, open or closed captioning for videos, assistive listening devices, and alternative formats of material, such as audiotapes, Braille, and large print, would be provided free of charge upon request.

A community meeting is scheduled for Tuesday, July 18, 2023 at 6:30 PM at the John J. Shea Bright Nights Building in Forest Park. This location was chosen due to its proximity to the project site, ADA accommodations, and the community’s familiarity with the location. The purpose of the meeting is to provide the surrounding community with the opportunity to learn about the project and provide final comments and feedback. The meeting was advertised through the City of Springfield’s project website, via email to the Forest Park Civic Association, and is being published in the Springfield Republican newspaper. Flyers with meeting information were also posted around the City.

Through the Environmental Justice screening form, CBOs and tribes were informed of the proposed project and notified of an upcoming community meeting. Details about time and location will be provided on the City of Springfield DPW Projects website for “The X” at <https://www.springfield-ma.gov/dpw/dpw-projects/projects-in-design-phase/the-x>, and via flyer. CBOs and tribes can also inquire about the community meeting by emailing April Doroski at adoroski@fando.com.

CBOs and tribes may request a meeting to discuss the project. For all meeting accommodations, including location and time of day, or to request language translation please inquire by emailing April Doroski at adoroski@fando.com.

See Appendix G for a copy of the Environmental Justice Screening Form and a list of CBOs/tribes contacted.

3. If the project is exempt from Part II of the protocol, please specify.

N/A

- B. Provide below (or attach) a distribution list (if different from the list in Section III.A. above) of CBOs and tribes, or other individuals or entities the Proponent intends to maintain for the notice of the MEPA Site Visit and circulation of other materials and notices during the course of MEPA review.

Refer to Appendix G for the distribution list of CBOs and tribes.

- C. Describe (or submit as a separate document) the Proponent's plan to maintain the same level of community engagement throughout the MEPA review process, as conducted prior to filing.

Outreach Activity	Details	Timeline
Environmental Justice-Screening Form	English, Spanish & Vietnamese <ol style="list-style-type: none"> 1. EJ Reference List – Email 2. City of Springfield project website 	May 10, 2023
Distribution of Project Information	Translated factsheet, community meeting invitation, and email notifications: <ol style="list-style-type: none"> 1. City of Springfield City Hall 2. City of Springfield project website 3. Forest Park Civic Association 4. Places of Worship (Trinity United Methodist Church, Calvary’s Love Church, St Barnabas & All Saints Church, HOLY NAME Parish) 5. Public Libraries (Springfield City Library: Forest Park Branch) 	June – July 2023
Project Website	Maintain project website	May – September 2023
Community Meeting	John J. Shea Nights Building	July 18, 2023
Public Notice of Environmental Review	English, Spanish & Vietnamese The Springfield Republican/ Environmental Monitor	July 26, 2023
MEPA Site Visit Notice	City of Springfield project website	July/August 2023

CERTIFICATIONS:

1. The Public Notice of Environmental Review has been/will be published in the following newspapers in accordance with 301 CMR 11.15(1):

(Name) The Springfield Republican

(Date) July 26, 2023

2. This form has been circulated to Agencies and Persons in accordance with 301 CMR 11.16(2).

Signatures:

 7-17-23

7/17/2023

<u>Date</u>	<u>Signature of Responsible Officer or Proponent</u>	<u>Date</u>	<u>Signature of person preparing ENF (if different from above)</u>
<u> </u>	<u>Christopher Cignoli, P.E</u>	<u> </u>	<u>Alex Maxwell, PhD</u>
<u>Name (print or type)</u>		<u>Name (print or type)</u>	
<u> </u>	<u>City of Springfield</u>	<u> </u>	<u>Fuss & O'Neill, Inc.</u>
<u>Firm/Agency</u>		<u>Firm/Agency</u>	
<u> </u>	<u>70 Tapley Street</u>	<u> </u>	<u>1550 Main Street Suite 400</u>
<u>Street</u>		<u>Street</u>	
<u> </u>	<u>Springfield, MA 01104</u>	<u> </u>	<u>Springfield, MA, 01103</u>
<u>Municipality/State/Zip</u>		<u>Municipality/State/Zip</u>	
<u> </u>	<u>(413) 750-2808</u>	<u> </u>	<u>(413) 333-5881</u>
<u>Phone</u>		<u>Phone</u>	

Appendices

Under Separate Cover