

ATTACHMENT A

Project:

Date:

Full Environmental Assessment Form Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "Yes" to a numbered question, please complete all the questions that follow in that section.
- If you answer "No" to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) If "Yes", answer questions a - j. If "No", move on to Section 2.	□ NO □ YES		YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d		
b. The proposed action may involve construction on slopes of 15% or greater.	E2f		
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a		
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a		
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e		
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q		
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	Bli		
h. Other impacts:			

2. Impact on Geological Features			
The proposed action may result in the modification or destruction of, or inhib access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)	ıt □ NO		YES
If "Yes", answer questions a - c. If "No", move on to Section 3.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached:	E2g		
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature:	E3c		
c. Other impacts:			
3. Impacts on Surface Water The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h) If "Yes", answer questions a - l. If "No", move on to Section 4.	□ NO		YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h		
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b		
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a		
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h		
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h		
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c		
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d		
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e		
 The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action. 	E2h		
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h		
k. The proposed action may require the construction of new, or expansion of existing,	D1a, D2d		

wastewater treatment facilities.

1. Other impacts:			
4. Impact on groundwater The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquife (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) If "Yes", answer questions a - h. If "No", move on to Section 5.	□ NC) [YES
ij Tes , unswer questions a n. ij 110 , move on to section 3.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c		
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source:	D2c		
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c		
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l		
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h		
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l		
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c		
h. Other impacts:			
5. Impact on Flooding The proposed action may result in development on lands subject to flooding. (See Part 1. E.2) If "Yes", answer questions a - g. If "No", move on to Section 6.	□NC) 🗆	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i		
b. The proposed action may result in development within a 100 year floodplain.	E2j		
c. The proposed action may result in development within a 500 year floodplain.	E2k		
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e		
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k		
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	Ele		

g. Other impacts:			
6. Impacts on Air The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) If "Yes", answer questions a - f. If "No", move on to Section 7.	□ NO		YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
 a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO₂) ii. More than 3.5 tons/year of nitrous oxide (N₂O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane 	D2g D2g D2g D2g D2g D2g		
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g		
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g		
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g		
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s		
f. Other impacts:			
7. Impact on Plants and Animals The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. If "Yes", answer questions a - j. If "No", move on to Section 8.	mq.)	□NO	□ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o		
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o		
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p		
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p		

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c		
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source:	E2n		
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m		
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source:	E1b		
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q		
j. Other impacts:			
8. Impact on Agricultural Resources The proposed action may impact agricultural resources. (See Part 1. E.3.a. ar	nd b.)	□ NO	□ YES
If "Yes", answer questions a - h. If "No", move on to Section 9.			
If "Yes", answer questions a - h. If "No", move on to Section 9.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	Part I	small impact	to large impact may
a. The proposed action may impact soil classified within soil group 1 through 4 of the	Part I Question(s)	small impact may occur	to large impact may occur
 a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System. b. The proposed action may sever, cross or otherwise limit access to agricultural land 	Part I Question(s) E2c, E3b	small impact may occur	to large impact may occur
 a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System. b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc). c. The proposed action may result in the excavation or compaction of the soil profile of 	Part I Question(s) E2c, E3b E1a, Elb	small impact may occur	to large impact may occur
 a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System. b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc). c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land. d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 	Part I Question(s) E2c, E3b E1a, Elb	small impact may occur	to large impact may occur
 a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System. b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc). c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land. d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District. e. The proposed action may disrupt or prevent installation of an agricultural land 	Part I Question(s) E2c, E3b E1a, Elb E3b E1b, E3a	small impact may occur	to large impact may occur
 a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System. b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc). c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land. d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District. e. The proposed action may disrupt or prevent installation of an agricultural land management system. f. The proposed action may result, directly or indirectly, in increased development 	Part I Question(s) E2c, E3b E1a, Elb E3b E1b, E3a El a, E1b C2c, C3,	small impact may occur	to large impact may occur

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) If "Yes", answer questions a - g. If "No", go to Section 10.			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h		
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b		
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h		
d. The situation or activity in which viewers are engaged while viewing the proposed action is:i. Routine travel by residents, including travel to and from workii. Recreational or tourism based activities	E3h E2q, E1c	_ _	_ _
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h		
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g		
g. Other impacts:			
10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) If "Yes", answer questions a - e. If "No", go to Section 11.) 🗆	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e		
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f		
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source:	E3g		

d. Other impacts:			
If any of the above (a-d) are answered "Moderate to large impact may e. occur", continue with the following questions to help support conclusions in Part 3:			
 The proposed action may result in the destruction or alteration of all or part of the site or property. 	E3e, E3g, E3f		
 The proposed action may result in the alteration of the property's setting or integrity. 	E3e, E3f, E3g, E1a, E1b		
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3		
11. Impact on Open Space and Recreation The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) If "Yes", answer questions a - e. If "No", go to Section 12.	□ N0	O 🗖	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p		
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q		
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q		
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c		
e. Other impacts:			
12. Impact on Critical Environmental Areas The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) If "Yes", answer questions a - c. If "No", go to Section 13.	□ N0	О 🗆	YES
zy zez y amane. questienz a et zy zie y ge ie zeenen zei	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d		
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d		
c. Other impacts:			

13. Impact on Transportation The proposed action may result in a change to existing transportation systems (See Part 1. D.2.j)	s. 🗆 No	О 🗆	YES
If "Yes", answer questions a - f. If "No", go to Section 14.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j		
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j		
c. The proposed action will degrade existing transit access.	D2j		
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j		
e. The proposed action may alter the present pattern of movement of people or goods.	D2j		
f. Other impacts:			
	1		•
14. Impact on Energy The proposed action may cause an increase in the use of any form of energy. (See Part 1. D.2.k) If "Yes", answer questions a - e. If "No", go to Section 15.	□Nº	O 🗆	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k		
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k		
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k		
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g		
e. Other Impacts:			
[12]			
15. Impact on Noise, Odor, and Light The proposed action may result in an increase in noise, odors, or outdoor ligh (See Part 1. D.2.m., n., and o.) If "Yes", answer questions a - f. If "No", go to Section 16.	ting. NC) 🗆	YES
J ,	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m		
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d		

c. The proposed action may result in routine odors for more than one hour per day.

D2o

d. The proposed action may result in light shining onto adjoining properties.		
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	
f. Other impacts:		

16. Impact on Human Health The proposed action may have an impact on human health from exposure \square NO \square YES to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) If "Yes", answer questions a - m. If "No", go to Section 17. Relevant Moderate No,or Part I small to large **Ouestion(s)** impact impact may may cccur occur a. The proposed action is located within 1500 feet of a school, hospital, licensed day E1d П П care center, group home, nursing home or retirement community. Elg, Elh b. The site of the proposed action is currently undergoing remediation. Elg, Elh П c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action. Elg, Elh d. The site of the action is subject to an institutional control limiting the use of the П property (e.g., easement or deed restriction). e. The proposed action may affect institutional control measures that were put in place Elg, Elh П to ensure that the site remains protective of the environment and human health. D2t f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health. g. The proposed action involves construction or modification of a solid waste D2q, E1f П management facility. D2q, E1f h. The proposed action may result in the unearthing of solid or hazardous waste. П D2r, D2s i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste. j. The proposed action may result in excavation or other disturbance within 2000 feet of E1f, E1g a site used for the disposal of solid or hazardous waste. E1h E1f, E1g k. The proposed action may result in the migration of explosive gases from a landfill П П site to adjacent off site structures. D2s, E1f, 1. The proposed action may result in the release of contaminated leachate from the D2r project site. m. Other impacts:

17. Consistency with Community Plans			
The proposed action is not consistent with adopted land use plans. (See Part 1. C.1, C.2. and C.3.)	□ NO		/ES
If "Yes", answer questions a - h. If "No", go to Section 18.			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b		
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2		
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3		
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2		
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb		
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.			
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a		
h. Other:			
18. Consistency with Community Character The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3)	□ NO		/ES
The proposed project is inconsistent with the existing community character.			
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3)	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3)	Relevant Part I Question(s)	No, or small impact	Moderate to large impact may
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) If "Yes", answer questions a - g. If "No", proceed to Part 3. a. The proposed action may replace or eliminate existing facilities, structures, or areas	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) If "Yes", answer questions a - g. If "No", proceed to Part 3. a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community. b. The proposed action may create a demand for additional community services (e.g.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) If "Yes", answer questions a - g. If "No", proceed to Part 3. a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community. b. The proposed action may create a demand for additional community services (e.g. schools, police and fire) c. The proposed action may displace affordable or low-income housing in an area where	Relevant Part I Question(s) E3e, E3f, E3g C4 C2, C3, D1f	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) If "Yes", answer questions a - g. If "No", proceed to Part 3. a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community. b. The proposed action may create a demand for additional community services (e.g. schools, police and fire) c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing. d. The proposed action may interfere with the use or enjoyment of officially recognized	Relevant Part I Question(s) E3e, E3f, E3g C4 C2, C3, D1f D1g, E1a	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) If "Yes", answer questions a - g. If "No", proceed to Part 3. a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community. b. The proposed action may create a demand for additional community services (e.g. schools, police and fire) c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing. d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources. e. The proposed action is inconsistent with the predominant architectural scale and	Relevant Part I Question(s) E3e, E3f, E3g C4 C2, C3, D1f D1g, E1a C2, E3	No, or small impact may occur	Moderate to large impact may occur

ITEM NO. 6

<u>DECLARATION OF LEAD AGENCY FOR STATE ENVIRONMENTAL QUALITY REVIEW</u> FOR THE RAINCHECK 2.0 GREEN INFRAST<u>RUCTURE PROGRAM</u>

WHEREAS: On March 7, 2012, the Board of the Buffalo Sewer Authority (BSA)

determined it would serve as the Lead Agency pursuant to the State Environmental Quality Review Act (SEQRA) and engage in a coordinated review process pursuant to the proposed adoption and implementation of a Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP), dated April, 2012, designed to address and abate combined sewer overflows to area waterways which occur during wet weather, typically

rain and/or snow melt events; and

WHEREAS: The LTCP – CSO Abatement Project outlines the BSA's goal to manage

up to 20% of publicly owned impervious surfaces across BSA's combined

sewer system; and

WHEREAS: The LTCP outlined a phased implementation of green infrastructure,

which began with a pilot program in a limited area of the combined sewer watershed, which was intended to inform the broader, future green

infrastructure implementation; and

WHEREAS: On July 18, 2012, the Board of the BSA, approved the adoption of the

Negative Declaration of the SEQRA for the LTCP – CSO Abatement Project, which indicated that review of the LTCP – CSO Abatement Project under SEQRA was limited to the elements which were finalized at

that time; and

WHEREAS: Potential future aspects of the LTCP – CSO Abatement Project were not

considered part of the scope of original Action, and, therefore, were not

part of that SEQR review; and

WHEREAS: The segmentation of future aspects of the LTCP – CSO Abatement Project

from the SEQR review was necessary as the details of future projects were too preliminary in nature to allow for the preparation of an FEAF or to

allow for an adequate evaluation of impacts; and

WHEREAS: On March 18, 2014, the LTCP received acceptance and approval from the

New York State Department of Environmental Protection and the United

States Environmental Protection Agency (USEPA); and

WHEREAS: On June 3, 2021, the Board of the BSA approved the pricing and other

details of the Sewer System Environmental Impact Revenue Bonds, Series 2021 (2021 Bonds), to fund the Raincheck 2.0 Green Infrastructure

Program; and

The 2021 Bonds require the management of over 200 acres of impervious

WHEREAS: area to be managed with green infrastructure practices; and

WHEREAS:	On December 31 st , 2024, BSA's Consultant, Stantec Consulting Inc. (Stantec) completed the planning phase for Raincheck 2.0. program; and
WHEREAS:	Sufficient detail is now available to begin the SEQR process for the Raincheck 2.0 program; and
WHEREAS:	The proposed projects identified will span across the six priority CSO basins identified in the Raincheck 2.0 Opportunity Report; and
WHEREAS:	In accordance with Part 617 of the implementing regulations pertaining to Article 9 (State Environmental Quality Review Act – "SEQRA") of the Environmental Conservation Law, the Principal Sanitary Engineer and Stantec, have determined that the above project will be treated as a Type 1 Action; and
WHEREAS:	Part 1 of the SEQR Long Environmental Assessment Form (EAF) has been completed, see Attachment A; and
WHEREAS:	A supplement to the SEQR Long EAF has been completed, see Attachment B; which summarizes the due diligence efforts related to the proposed Action,
WHEREAS:	The Buffalo Sewer Authority has identified Involved Agencies for the Project;
NOW THEREFORE BE IT RESOLVED:	That the Board of the Buffalo Sewer Authority announces its intent that the BSA will serve as Lead Agency to conduct an environmental review of the Program in accordance with SEQRA and will notify the Involved Agencies of BSA's intention to act as Lead Agency.

MOTION TO	APPROVE				
MADE BY	DR. CAULFIELD				
2 ND BY		MR.SOLE			
AYES	4	NOES	0		

Board Meeting of July 30, 2025

From: Rosaleen Nogle <rnogle@buffalosewer.org>
Sent: Wednesday, August 20, 2025 2:56 PM

To: Alessandrini, Stephanie

Subject: Fw: City of Buffalo East Side, Downtown, and South Buffalo Neighborhoods

Sent from my Verizon, Samsung Galaxy smartphone Get Outlook for Android

From: ECDEP Document Submission < webmaster@erie.gov>

Sent: Monday, August 11, 2025 9:49:21 AM **To:** Rosaleen Nogle < rnogle@buffalosewer.org>

Subject: City of Buffalo East Side, Downtown, and South Buffalo Neighborhoods

Your GML 239 Referral for City of Buffalo East Side, Downtown, and South Buffalo Neighborhoods / Multiple was/were submitted on Mon, 08/11/2025 - 10:45 am

We will reply via email within 30 days (except for reports of final action) to:

Contact Person

Rosaleen B. Nogle, PE, BCEE, BC.WRE

Contact Email

rnogle@buffalosewer.org

Contact us at 716-858-8390 for any urgent issues.

Thank you,

ECDEP

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Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

From: Rosaleen Nogle <rnogle@buffalosewer.org>

Sent: Thursday, August 28, 2025 12:12 PM

To: Alessandrini, Stephanie
Cc: Callahan, Bernadette
Subject: FW: Referral Reply

Attachments: Green Infrastructure Reply.pdf

Best Regards,

Rosaleen B. Nogle, PE, BCEE, BC.WRE Principal Sanitary Engineer Buffalo Sewer Authority 65 Niagara Square, City Hall Room 1038 Buffalo, NY 14202 (716) 851-4664 Ext. 4203



From: German, Timothy <Timothy.German@erie.gov>

Sent: Thursday, August 28, 2025 10:57 AM **To:** Rosaleen Nogle < rnogle@buffalosewer.org>

Subject: Referral Reply

Rosaleen:

I am attaching the No Recommendation reply for the green infrastructure project.

Thank you, Tim

. ...

Timothy German | Planner
Erie County | Environment & Planning
95 Franklin St., 1007 | Buffalo, NY 14202
P:+1(716)858-1911 | F:+1(716)858-7248
Timothy.German@erie.gov | http://www.erie.gov

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ITE PLAN OR ZO ING REFER AL TO COUNTY OF ERIE, N.Y. A D REPLY TO MUNICIPALITY

Submit this form with <u>full statement of proposed action</u> (as described in GML 239-m(c)) at <u>www.Erie.gov/IRonline</u>, OR mail a hard copy (retain a copy for your files) to: Erie County Division of Planning, 95 Franklin Street, Room 1053, Buffalo, N.Y., 14202

Case No.: SP-25-509

Postmark/Delivery Date: 08/11/2025

The proposed action described herein is referred in accordance with the provisions of NYS General Municipal Law §239 I - nn A Municipal Referral Map is available to help determine whether an applicable action is subject to referral.

Description of Proposed Action

1. Name of Municipality: Buffalo Sewer Authority, a Public Benefit Corporation

§239-m(4)(b) provides that the county shall have 30 days after receipt of a full statement of the proposed action to reply.

If the county fails to reply within such period, the referring body may take final action.

However, any county reply received after 30 days but 2 or more days prior to final action by the referring body shall be subject to §239-m(5)

The referring body shall file a report of its final action with the county within 30 days per §239-m(6).

2. Hearing Schedule:	D	ate N/A	Ti	me	Locat	ion		
3. Action is before:		Legislative Body		Board of A	Appeals		Planning Board	
4. Action consists of:		New Ordinance		Rezone/M	lap Change		Ordinance Amendment Install Green	
☐ Site Plan		Variance		Special U	se Permit	V	Other: Infrastructure	
5. Location of Property:		Entire Municipality	V	Address:	City of Buffa	lo East	Side, Downtown, and	
5a. S.B.L. of Property:					South Buffa	alo neigh	borhoods.	
6. Referral required as site is within 500' of:	V	State or County Property/Institution	V	Municipal	Boundary		Operation located in an ultural District	
Expressway		County Road	~	State High	iway	Prop	osed State or County Road, erty, Building/Institution, nageway	
7. Proposed change or use: (specify the action, such as the scope of variances or site plans) Installation of +/- 558 green infrastructure practices throughout 8,977 acre proposed change or use: Installation of +/- 558 green infrastructure practices throughout 8,977 acre proposed change or use:					out 8,977 acre project area, nd adjacent to multiple parks,			
8. Other remarks:		THUTTE Street a court of the Street						
9. Submitted by: PE, BCEE, BC.WRE Email: rnogle@buffalosewer.org								
10. Return Address: 65 Niagara Square, City Hall Room 1038, Buffalo, NY, 14202								
Reply to Municipality by Erie County Division of Planning								
Receipt of the above-described proposed action is acknowledged on $\phantom{00000000000000000000000000000000000$								
1. The proposed ac	tion	is not subject to review	unc	der the law				
2.								
3. The proposed action is subject to review; Recommendation on Proposed Action is attached hereto.								
4. X No Recommendation; proposed action has been reviewed and determined to be of local concern.								
By the Division of Plannin	g: _	Timatly 1	2	Eeun			Date: 08/28/2025	

From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:05 PM

To: Gillian Brown

Cc: Rosaleen Nogle; Callahan, Bernadette; Hancox, Michelle; Austin, Ella

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

This message is to inform you that the Buffalo Sewer Authority has determined it is the appropriate Lead Agency and wishes to conduct a coordinated environmental review for the Green Infrastructure Implementation in CSO Basins 6, 26, 27, 33 & 53. A formal cover letter, FEAF, and supporting documentation are included within the file share link below.

File Share Link: 2025-08-11 SEQR Coord Review

Involved agencies should contact BSA within 30 days of this notification should there be any objection to BSA assuming Lead Agency status for this environmental review. A Lead Agency must be agreed upon within thirty (30) days of receipt of this notice.

If you have any questions, please do not hesitate to contact us.

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









With every community, we redefine what's possible.

From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:05 PM **To:** Alston, Mel; Pacheco, Lauren

Cc: Rosaleen Nogle; Callahan, Bernadette; Hancox, Michelle; Austin, Ella

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

This message is to inform you that the Buffalo Sewer Authority has determined it is the appropriate Lead Agency and wishes to conduct a coordinated environmental review for the Green Infrastructure Implementation in CSO Basins 6, 26, 27, 33 & 53. A formal cover letter, FEAF, and supporting documentation are included within the file share link below.

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Stephanie

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Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









With every community, we redefine what's possible.

From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:03 PM

To: Nmarton@buffalony.gov; Skipper,Nolan R.; Rabb,Andrew R

Cc: Rosaleen Nogle; Callahan, Bernadette; Hancox, Michelle; Austin, Ella

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

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Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









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From: Alessandrini, Stephanie

Sent: Wednesday, August 13, 2025 9:17 PM **To:** Baptista, Chrisna; Pylypchuk, Sieglinde

Subject: RE: SEQR Coordinated Review - Notice of Intent for Lead Agency

Sounds good, thanks Chrisna!

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water



From: Baptista, Chrisna < Baptista. Chrisna@epa.gov>

Sent: Wednesday, August 13, 2025 4:30 PM

To: Alessandrini, Stephanie < Stephanie. Alessandrini@stantec.com >; Pylypchuk, Sieglinde

<Pylypchuk.Sieglinde@epa.gov>

Subject: RE: SEQR Coordinated Review - Notice of Intent for Lead Agency

You don't often get email from <u>baptista.chrisna@epa.gov</u>. <u>Learn why this is important</u>

Hi Stephanie,

Siegi and I will check around and get back to you about who took this work over since Stan retired. Thanks!

Chrisna Baptista, Attorney-Adviser Municipal Enforcement Branch Water Enforcement Division

Phone: (202) 564-4272

E-mail: baptista.chrisna@epa.gov

From: Alessandrini, Stephanie <Stephanie.Alessandrini@stantec.com>

Sent: Wednesday, August 13, 2025 9:04 AM

To: Pylypchuk, Sieglinde <Pylypchuk.Sieglinde@epa.gov>; Baptista, Chrisna <Baptista.Chrisna@epa.gov>

Subject: FW: SEQR Coordinated Review - Notice of Intent for Lead Agency

Some people who received this message don't often get email from stephanie.alessandrini@stantec.com. Learn why this is important

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good Morning,

I had tried to send this notice regarding SEQR coordinated review to Stanley Stephanson but received an error. Please see below and let me know if there's someone else I should plan on forwarding this to.

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water



From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:10 PM

To: Stephansen.stanley@epa.gov

Michelle <Michelle.Hancox@stantec.com>; Austin, Ella <Ella.Austin@stantec.com>

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

This message is to inform you that the Buffalo Sewer Authority has determined it is the appropriate Lead Agency and wishes to conduct a coordinated environmental review for the Green Infrastructure Implementation in CSO Basins 6, 26, 27, 33 & 53. A formal cover letter, FEAF, and supporting documentation are included within the file share link below.

File Share Link: 2025-08-11 SEQR Coord Review

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If you have any questions, please do not hesitate to contact us.

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









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From: Alessandrini, Stephanie

Sent: Tuesday, August 19, 2025 9:20 AM

To: Rountree, Mark; Castle, Daniel; Fiegl, P.E., Joseph L.; German, Timothy **Subject:** RE: SEQR Coordinated Review - Notice of Intent for Lead Agency

Hi Mark,

Of course, here's a revised link: 2025-08-11 SEQR Coord Review

I just added everyone on this email- please let me know if anyone else should be included.

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water



From: Rountree, Mark < Mark. Rountree@erie.gov>

Sent: Tuesday, August 19, 2025 9:18 AM

To: Castle, Daniel <Daniel.Castle@erie.gov>; Fiegl, P.E., Joseph L. <Joseph.Fiegl@erie.gov>; German, Timothy

<Timothy.German@erie.gov>

Cc: Alessandrini, Stephanie <Stephanie.Alessandrini@stantec.com> **Subject:** Re: SEQR Coordinated Review - Notice of Intent for Lead Agency

You don't often get email from mark.rountree@erie.gov. Learn why this is important

Stephanie

We can't access the link, could you please add everyone on this e-mail as authorized?

Thanks,

Mark

--

Mark Rountree | Chief Planner Erie County | Environment & Planning 95 Franklin St., Room 1056 | Buffalo, NY 14202 P:+1(716)858-8008 | F:+1(716)858-7248 Mark.Rountree@erie.gov | http://www.erie.gov

From: Castle, Daniel < <u>Daniel.Castle@erie.gov</u>> Sent: Monday, August 18, 2025 9:07 AM

To: Fiegl, P.E., Joseph L. Joseph L

Subject: FW: SEQR Coordinated Review - Notice of Intent for Lead Agency

See below FYI re BSA SEQR Coordinated Review

--

Daniel Castle | Commissioner
Erie County | Environment & Planning
95 Franklin St., 1012 | Buffalo, NY 14202
P:+1(716)858-7674 | F:+1(716)858-7248
Daniel.Castle@erie.gov | http://www.erie.gov

From: Alessandrini, Stephanie <Stephanie.Alessandrini@stantec.com>

Sent: Monday, August 11, 2025 4:06 PM **To:** Castle, Daniel < Daniel. Castle@erie.gov >

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

You don't often get email from stephanie.alessandrini@stantec.com. Learn why this is important

[Caution: this email is not from an Erie County employee: attachments or links may not be safe.]

Good Afternoon,

This message is to inform you that the Buffalo Sewer Authority has determined it is the appropriate Lead Agency and wishes to conduct a coordinated environmental review for the Green Infrastructure Implementation in CSO Basins 6, 26, 27, 33 & 53. A formal cover letter, FEAF, and supporting documentation are included within the file share link below.

File Share Link: 2025-08-11 SEQR Coord Review

Involved agencies should contact BSA within 30 days of this notification should there be any objection to BSA assuming Lead Agency status for this environmental review. A Lead Agency must be agreed upon within thirty (30) days of receipt of this notice.

If you have any questions, please do not hesitate to contact us.

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com





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From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:09 PM

To: REgion9@dec.ny.gov

Cc: Rosaleen Nogle; Callahan, Bernadette; Hancox, Michelle; Austin, Ella

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

This message is to inform you that the Buffalo Sewer Authority has determined it is the appropriate Lead Agency and wishes to conduct a coordinated environmental review for the Green Infrastructure Implementation in CSO Basins 6, 26, 27, 33 & 53. A formal cover letter, FEAF, and supporting documentation are included within the file share link below.

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If you have any questions, please do not hesitate to contact us.

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









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From: Kinderman, Nickolas (DOT) < Nickolas.Kinderman@dot.ny.gov>

Sent: Tuesday, August 19, 2025 12:38 PM

To: Alessandrini, Stephanie; Mitalski, Patricia (DOT)

Cc: Schoenfeldt, Alyssa (DOT)

Subject: RE: SEQR Coordinated Review - Notice of Intent for Lead Agency

You don't often get email from nickolas.kinderman@dot.ny.gov. Learn why this is important

Stephanie:

I am forwarding this email to our SEQR coordinator for review and response.

Nickolas J. Kinderman, P.E.

Regional Planning and Program Manager

New York State Department of Transportation

100 Seneca Street, Buffalo, NY 14203 (716) 847-3241 (Office) | (716) 864-6653 (Cell) | nickolas.kinderman@dot.ny.gov dot.ny.gov

From: Alessandrini, Stephanie < Stephanie. Alessandrini@stantec.com>

Sent: Tuesday, August 12, 2025 12:15 PM

To: Mitalski, Patricia (DOT) < Patricia. Mitalski@dot.ny.gov>; Kinderman, Nickolas (DOT)

<Nickolas.Kinderman@dot.ny.gov>

Subject: RE: SEQR Coordinated Review - Notice of Intent for Lead Agency

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Received, thanks Patricia. @Kinderman, Nickolas (DOT); please let me know if we need to forward this to anyone else.

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water



From: Mitalski, Patricia (DOT) < Patricia.Mitalski@dot.ny.gov>

Sent: Monday, August 11, 2025 5:26 PM

To: Alessandrini, Stephanie < Stephanie < Stephanie.Alessandrini@stantec.com Cc: Kinderman@dot.ny.gov Nickolas.Kinderman@dot.ny.gov Stephanie.Alessandrini@stantec.com <a href="mailto:Stephanie.Alessandrini.

Subject: RE: SEQR Coordinated Review - Notice of Intent for Lead Agency

You don't often get email from patricia.mitalski@dot.ny.gov. Learn why this is important

Greetings,

Nick Kinderman's e-mail address is Nickolas.Kinderman@dot.ny.gov. I have cc'd him on this e-mail.

Due to staff changes, I am not sure who is the current point of contact for SEQRA. However, Nick should be able to help you with this.

Patricia A. Mitalski

Real Estate Specialist 2/Region 5 Property Manager

Department of Transportation

100 Seneca Street, Buffalo, NY 14203 (716) 847 – 3198 | Patricia.Mitalski@dot.ny.gov dot.ny.gov

From: Alessandrini, Stephanie < Stephanie. Alessandrini@stantec.com >

Sent: Monday, August 11, 2025 4:11 PM

To: Mitalski, Patricia (DOT) < Patricia.Mitalski@dot.ny.gov

Subject: FW: SEQR Coordinated Review - Notice of Intent for Lead Agency

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Hi Patricia,

I tried to send this to Nick but think I may have the wrong email address. Could you please advise who the appropriate point of contact may be?

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water



From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:08 PM

To: nick.kinderman@dot.ny.gov

Cc: Rosaleen Nogle <<u>rnogle@buffalosewer.org</u>>; Callahan, Bernadette <<u>Bernadette.Callahan@stantec.com</u>>; Hancox,

Michelle <Michelle.Hancox@stantec.com>; Austin, Ella <Ella.Austin@stantec.com>

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

This message is to inform you that the Buffalo Sewer Authority has determined it is the appropriate Lead Agency and wishes to conduct a coordinated environmental review for the Green Infrastructure Implementation in CSO Basins 6, 26, 27, 33 & 53. A formal cover letter, FEAF, and supporting documentation are included within the file share link below.

File Share Link: 2025-08-11 SEOR Coord Review

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If you have any questions, please do not hesitate to contact us.

Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









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From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:07 PM

To: sara.madison@nysed.gov

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

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Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









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From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:07 PM **To:** daniel.mackay@parks.ny.gov

Cc: Rosaleen Nogle; Callahan, Bernadette; Austin, Ella; Hancox, Michelle

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

Good Afternoon,

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Thanks,

Stephanie

Stephanie Alessandrini, PE (MN, NY)

Project Manager, Water

Direct: (518) 218-5822 Mobile: (518) 495-0990

stephanie.alessandrini@stantec.com









With every community, we redefine what's possible.

From: Alessandrini, Stephanie

Sent: Monday, August 11, 2025 4:04 PM

To: camdur@ch.ci.buffalo.ny.us

Cc: Rosaleen Nogle; Callahan, Bernadette; Hancox, Michelle; Austin, Ella

Subject: SEQR Coordinated Review - Notice of Intent for Lead Agency

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Thanks,

Stephanie

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With every community, we redefine what's possible.

Buffalo Sewer Authority



Green Infrastructure Stormwater Management Practices for CSO Basins 6, 26, 27, 33, and 53

Environmental Assessment to Support the State Environmental Quality Review Act (SEQRA) Review

July 2025

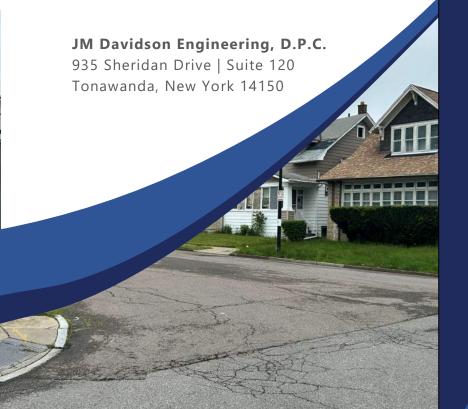




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1 Introduction

The Buffalo Sewer Authority (BSA) Long Term Control Plan (LTCP) is a comprehensive, multi-year strategy designed to address combined sewer overflows (CSOs) into local waterways during rain and snowmelt events. BSA currently has 52 permitted CSO outfalls that are regulated under the Clean Water Act and permitted under the New York State issued State Pollutant Discharge Elimination System (SPDES) permit (Permit No. 002 8410). The LTCP was developed to comply with the U.S. Environmental Protection Agency's (EPA) national CSO Control Policy and revised water quality standards from CSOs.

BSA's LTCP, approved in 2014, aims to reduce overflows and protect water quality through a combination of traditional "gray" infrastructure and innovative "green" solutions. The LTCP includes a mix of in-line storage, off-line storage, real-time control systems, and green infrastructure stormwater management projects. These measures are designed to capture, store, and treat excess stormwater and wastewater before it overflows into Buffalo's lakes, rivers, canals, and tributaries.

Green infrastructure stormwater management (green infrastructure or GI) projects are a type of stormwater management technique that is designed to imitate nature by capturing and treating stormwater where it lands. The intent is to keep precipitation (rain and snow melt) clean by not allowing it to runoff over long distances and return it to the groundwater preventing the runoff from entering storm drains. This increases groundwater recharge in areas where this ecological function is impaired due to a large amount of impervious surfaces and stormwater systems designed to collect and carry stormwater to drains. It also reduces flooding by reducing runoff. GI practices slow stormwater flow which allows the wastewater treatment plant more time to treat incoming flows, and in turn, reduces the volume of diluted wastewater entering Buffalo's waterways after storm events.

BSA launched the Rain Check Program in 2015, a dedicated green infrastructure program which documents BSA's strategies for addressing goals outlined in the LTCP. As part of this program, six priority CSO basins were identified for green infrastructure improvements within Buffalo's East Side, downtown, and South Buffalo neighborhoods. These basins encompass a quarter of the City's land area and almost half of its population. The basins were chosen to have the greatest impact on water quality and public health in Buffalo, to improve basins with high numbers of combined sewer overflow events, to leverage other investments in the area, and to decrease impervious cover where its percentage is highest and tree cover is lowest.

For this phase of the Rain Check Program, BSA is focusing on GI practices in CSO Basins 6, 26, 27, 33, and 53. These areas were selected as these communities have high impervious surface coverage, low tree canopy cover, and socioeconomic vulnerability as they are historically underserved areas and can disproportionately experience pollution and flooding. These practices include GI retrofits on public property and within the public right-of-way (ROW). A total of 558 GI locations have been identified throughout the selected CSO basins. The GI locations are located within eight different parks, nineteen public schools, with the rest within street/utility ROWs. BSA is aiming to implement the GI practices by 2028.

BSA, as a public benefit corporation, is acting as the lead agency and undertaking an environmental assessment (EA) of the environmental effects associated with implementing the GI practices to comply with the State Environmental Quality Review Act (SEQRA). While according to NYCRR 617.5(c)(3), the retrofitting of an existing structure and its appurtenant areas to incorporate green infrastructure is considered a Type II Action under SEQRA; however, as the cumulative effects of this project involve the disturbance of over 10 acres of land and exceed the threshold for disturbance within designated historic districts, the project is being reviewed as a Type I Action under

SEQRA. On BSA's behalf, JM Davidson Engineering, D.P.C (JMD) with Stantec Consulting Services (Stantec) performed this environmental assessment to supplement the SEQRA Full Environmental Assessment Form (FEAF) due to the geographical size and scope of the GI stormwater management practices. Neither the Short EAF, nor the FEAF alone would appropriately capture the environmental review undertaken of the project, nor the site-specific information for all of the planned GI locations. This environmental assessment report documents the methods used to identify environmental resources at and adjacent to each GI practice site, the steps taken to verify each resource, and the consultation with each interested and involved agency. Furthermore, this EA documents the anticipated impacts and effects from the GI practices.

1.1 Project Description

The implementation of GI practices as part of the LTCP and Rain Check Program serve to achieve national and local goals. The benefits are:

- <u>Stormwater Management</u>: Reduces runoff and CSO events, protecting water quality in the Niagara River, Lake Erie, and their tributaries.
- <u>Environmental Justice</u>: Prioritizes investments in neighborhoods with lower tree canopy cover and higher impervious surface, addressing equity concerns.
- <u>Climate Resilience</u>: Helps mitigate urban heat island effects, increase biodiversity, and adapt to increased precipitation due to climate change.
- <u>Economic and Social Benefits</u>: Creates jobs, beautifies neighborhoods, and improves quality of life for residents.

1.1.1 Practice Locations

The specific GI practices selected, and their locations are a result of a GIS-based analysis using soils (infiltration properties), topography, and land use. Furthermore, site suitability was further refined based on the following criteria:

- Contributing drainage area of at least 4,500 square feet,
- Consideration of existing features and improvements such as newly poured sidewalks, curb ramps, and trees,
- Private utility locations as to not interfere with private sewer and water lateral locations,
- Public utility locations were considered with a minimum horizontal separation distance of five (5) feet from sewer laterals and mains, 10 feet from water laterals and water mains, and 15 feet from utility poles,
- A minimum setback of 10 feet from buildings and five (5) feet from property lines, and
- A minimum area size of five (5) feet wide and no longer than 150 feet.

The GIS analysis identified potential locations, and the design team met with the City of Buffalo Public Works staff and performed site visits to ensure the selected practices and sites were feasible. Bundles of GI practices were separated into packages (Packages 1-14) based on proximity to each other and disseminated to various engineering consultants for detailed design. The packages will be put out to bid for contractors to be awarded packages for construction. Appendix A contains maps of the practice locations separated by package number. Most of the GI practices will be placed within roadway and utility ROWs. However, GI practices will also be placed on nineteen public school properties and eight park locations.

1.1.2 GI Practices to be Implemented

The specific GI practices selected are stormwater tree trenches, porous asphalt pavement, rain gardens, infiltration trenches, curb extensions, stormwater tree trenches with a bump out combination, pavement removal, stormwater planters, and underground storage. These practices were selected and designed based on the *NYS Stormwater Management Design Manual* and their suitability for the sites within the City of Buffalo. **Appendix B** contains the standard detail drawings of the GI practices described below. Other GI practices may be integrated, like bioswales, when site specific design is completed. The following generally describes each practice type.

<u>Stormwater Tree Trench</u>: This GI is a below-grade trench system comprised of stone storage that is situated adjacent to the roadway under the sidewalk and adjacent to landscaped areas. Trees can be planted in the landscaped areas within an engineered soil that is designed to enhance the natural filtration properties of soil and plants to remove pollutants and store runoff.

<u>Porous Asphalt Pavement</u>: Porous pavement is a type of pavement that is a mixture of aggregates and a bituminous binder designed to allow stormwater to flow freely through the asphalt surface into a subsurface stone drainage layer.

<u>Bioretention Basin/Rain Garden:</u> These are engineered small depressional areas designed to collect runoff. They include an engineered soil that is a mixture of soil, sand, and gravel which allows water to temporarily pond and infiltrate into the ground. The practices promote infiltration and enhance groundwater recharge in areas with high amounts of impervious surfaces. The depressional area is planted with a mixture of herbaceous plants and shrubs to encourage nutrient uptake and transpiration.

<u>Underground Storage</u>: This practice is designed to store runoff beneath the surface in a series of a large diameter perforated pipes and a gravel storage bed encouraging runoff to infiltrate into the ground or delay its release.

<u>Curb Extensions:</u> Curb extensions, also known as bump outs, are retrofitted into existing streets and narrow the roadway and shorten the pedestrian crossing distances. As a result, they slow down vehicle speed and enhance pedestrian safety at intersections and crosswalks. The added areas behind the new curb extensions can be designed as bioretention areas to capture, filter, and infiltrate stormwater runoff from streets. Openings in the curb direct runoff into the vegetated area.

<u>Infiltration Trench:</u> Infiltration trenches are similar to bioretention basins, however, rather than engineered soil rely on only stone as subsurface storage. The surface may remain stone or be covered with a thin layer of topsoil and grass.

<u>Stormwater Planter:</u> This GI practice places bioretention areas within box-like structures with vertical sides adjacent to sidewalks and streetscapes. They have engineered soil to filter stormwater and flow is diverted into the planters. Planters can be connected below ground by underdrains or be connected to underground storage.

<u>Pavement Removal:</u> Pavement removal is a simple way to decrease impervious surface in an area and restore natural soil and vegetation to decrease runoff and allow for infiltration naturally.

Presently, there are 558 GI practice locations planned, encompassing 37.02 acres, based on preliminary estimates of the practice's footprint. Table 1 summarizes the number of each GI practice to be installed as part of the project.

Table 1: GI Practice Summary			
GI Practice	Number to be Installed	Total Area (Acres)	
Stormwater Tree Trench	453	8.99	
Porous Asphalt Pavement	31	25.78	
Rain Garden (Bio Retention Basin)	17	0.36	
Underground Storage	10	0.65	
Pavement Removal	2	0.26	
Stormwater Tree Trench-Bump Out Combination	11	0.20	
Stormwater Planter	22	0.48	
Infiltration Trench	7	0.21	
Bump Out	5	0.09	
Total	558	37.02	

1.1.3 Interested and Involved Agencies

SEQRA requires coordination with interested and involved agencies. The definition of an interested agency is a state or local public agency that does not have jurisdiction over the action but wishes to participate in the SEQRA review because of its expertise or specific concerns regarding the action. Interested agencies do not have approval or regulatory authority but are encouraged under SEQRA to participate in an advisory role, make recommendations, or provide expertise relevant to the review. Involved agencies are those that have jurisdiction by law to fund, approve, or directly undertake all or part of an action. Federal agencies cannot be classified as interested and involved agencies under SEQRA because the regulations are specific to state or local public bodies. BSA is planning on conducting a coordinated review and has initiated consultation with several interested and involved agencies. Appendix C contains correspondence to date with interested and involved agencies. Table 2 lists the identified interested and involved agencies.

Table 2: List of Interested and Involved Agencies		
Agency Consultation/Permit/Partnership Status		
Involved Agencies		
City of Buffalo Department of Public Works- Engineering Department	Street Cut Permit to place the GI practices within ROWs and properties under the authority of DPW	
City of Buffalo Department of Permit and Inspection Services	Floodplain Development Permit	

Table 2: List of Interested and Involved Agencies		
Agency	Consultation/Permit/Partnership Status	
Buffalo Municipal Housing Authority	Occupancy of the GI practices on properties under the authority of BMHA	
City of Buffalo Public Schools	Occupancy of GI practices on Buffalo Public School property	
New York State Department of Education	Occupancy of GI practices on Buffalo Public School property	
New York State Department of Transportation	Occupancy of GI practices within NYSDOT ROW. Permit to be obtained prior to construction.	
Interest	red Agencies	
New York State Department of Environmental Conservation	GI practices are within 0.5 mile buffer area of state-listed species. Consultation has been initiated.	
State Historic Preservation Office	GI practices within the vicinity of cultural resources. Consultation has been initiated.	
Erie County Planning Board	Advisory review under GML §239-m	

In addition to the interested and involved agencies, BSA has been and will continue to have active public involvement regarding the proposed project. The following is a list of community groups engaged or anticipated to be engaged for this project.

- Buffalo Council Districts
 - Delaware District
 - Ellicott District
 - o Fillmore District
 - Lovejoy District
 - Masten District
 - University District
- Buffalo Olmstead Parks Conservancy

2 Environmental Assessment

The environmental assessment was conducted using available data layers from public data sources, BSA's own internal information, and field data collected to conduct a GIS analysis. The project area is a cityscape with little natural areas such as forests and wetlands. The natural vegetation that does exist is in the form of maintained lawns of residences, parkland, street trees, vacant lots, street medians, and green space. Scajaquada Creek is a waterway that runs through the City of Buffalo and bisects the project area. Some data layers show it in different locations such as NYSDEC's stream classification layer. Through the entire project area, Scajaquada Creek is enclosed, which is referred to as the "Scajaquada Drain". This enclosed portion is maintained by BSA; therefore, BSA's data on the

location of this waterway was used. Some fieldwork was undertaken to verify the existence of select natural resources such as wetlands, historic properties, and recreational facilities.

The following subsections list the natural resources evaluated and if the resource is present and to what extent.

2.1 Land Use

The project area is within an urbanized area; therefore, it has been fully developed with little vacant or unused land. Land use controls are governed by zoning regulations and provide an accurate representation of the land use patterns the GI practices have been sited within. A review of current aerial photography, zoning maps, and field visits identified that the GI practices have been sited primarily in residential neighborhoods or mixed-use areas. The mixed uses allowed are residential with commercial uses supportive of residential neighborhoods such as restaurants, corner stores, and boutiques. Section 2.2 is a more in-depth discussion on zoning. The actual location of the GI practices is mainly within the secondary street or utility ROW through the residential and mixed-use neighborhoods. There are several primary streets where GI practices are planned that pass through retail strip and light industrial areas but to a minor extent. Within the residential and mixed-use neighborhoods, several public-school properties, parks, and green spaces will host GI practices.

In broader terms, the GI practices are located within land uses of street and utility ROWs, parks, green space, residential campus complexes operated by the Buffalo Municipal Housing Authority, and Buffalo Public School property. Table 3 below summarizes the number of GI practices on each property type and the following sections further describe the work anticipated on each land use type.

Table 3: Project Land Use Summary			
Property/Land Use Type	Number of GI Practices	Total Area (Acres)	
Street, Roadway, & Utility ROW	503	10.09	
Buffalo Public Schools	34	9.12	
Parks & Greenspace	12	1.86	
Residential Campus (Buffalo Municipal Housing Authority)	11	15.95	
Total	558	37.02	

2.1.1 Buffalo Public Schools

BSA has been working closely with the Buffalo Public Schools (BPS) and NYS Department of Education (NYSDOE) to work out a plan to implement GI practices at 19 schools and school properties. Table 4 below summarizes the proposed GI practices at each school or school property. Stantec has taken the lead on consulting with SHPO on behalf of BSA to expedite the NYSDOE permitting process. The schools proposed for GI practices that have not been previously assessed for eligibility for the National or State List of Historic Places have been reviewed. BSA worked with BPS to provide SHPO with information on those properties not previously assessed for listing eligibility. Table 4 indicates SHPO's determination from this assessment on those properties. In addition, SHPO made a determination that the GI practices will not have an adverse impact on historic or archaeological resources (See Appendix C).

Table 4: Buffalo Public School GI Practice Summary			
School	National/State List of Historic Places	Green Infrastructure Type (s)	System Footprint Area (Square Feet)
PS 90: Early Childhood Center (50 A Street)	Not Previous Assessed for Eligibility, Determined to be Not Eligible for listing	Rain Gardens, Stormwater Tree Trench, Porous Asphalt	34,278
PS 92: New B.U.I.L.D Community School (340 Fougeron Street)	Registered: National Register Number 22NR00041	Stormwater Tree Trench	1,593
PS 80: Highgate Heights (600 Highgate Ave)	Listed on State List	Stormwater Tree Trench	700
PS 99: Stanley M. Makowski Early Childhood Center (1097 Jefferson Ave)	Not Previous Assessed for Eligibility	Porous Asphalt	41,107
PS 17: Early Childhood Center (1045 West Delevan Ave)	Not Eligible	Porous Asphalt	27,811
PS 192: Buffalo Academy for Visual & Performing Arts (450 Masten Ave)	Not Eligible	Rain Garden	1,650
PS 97: Harvey Austin School (1405 Sycamore Ave)	Eligible	Porous Asphalt, Stormwater Tree Trench	22,911
PS 309: East Community High School (820 Northhampton St)	Eligible	Porous Asphalt, Rain Gardens,	36,951
PS 33: Bilingual Center (157 Elk St)	Not Eligible	Porous Asphalt	21,569
PS 31: Harriet Ross Tubman School (212 Stanton St)	Eligible	Porous Asphalt	8,805
1409 East Delevan Ave (BPS Property)	Not Eligible	Porous Asphalt	5,257
PS 8: Leonardo Da Vinci High School (167 E Utica St)	Eligible	Porous Asphalt, Rain Garden	25,289
PS 301: Burgard High School (400 Kensington Ave)	Not Eligible	Rain Gardens	1,505
PS 82: Ronald Peoples School of Scholars (230 Easton Ave)	Eligible	Porous Asphalt, Rain Gardens	39,443

Table 4: Buffalo Public School GI Practice Summary			
School	National/State List of Historic Places	Green Infrastructure Type (s)	System Footprint Area (Square Feet)
PS 61: Arthur O. Eve School of Distinction (453 Leroy Ave)	Eligible	Porous Asphalt, Rain Garden	7,928
PS 89: Dr. Lydia T. Wright School of Excellence (106 Appenheimer Ave)	Not Previous Assessed for Eligibility, Determined to be Not Eligible for Listing	Porous Asphalt, Stormwater Tree Trench	79,227
PS 74: Hamlin Park Claude & Ouida Clapp Academy (126 Donaldson Rd)	Listed	Porous Asphalt	15,194
1448 East Delevan Ave	Not Previous Assessed for Eligibility	Porous Asphalt	9,566
PS 53: Community School (329 Roehrer Ave)	Eligible	Porous Asphalt	16,328
TOTAL			397,112 sq ft/ 9.12 acres

2.1.2 **Parks**

There are many parks throughout the City of Buffalo, and they occur as large parcels of land for recreation including public pools, to small plots of land maintained as greenspace in angled street intersections and within traffic circles. The City of Buffalo Department of Public Works (DPW) Division of Parks and Recreation maintains all 190 city park properties. The City of Buffalo Interactive Parks Map¹ was used to screen the proposed GI locations for intersections with Buffalo parks. BSA has identified eight parks where GI practices are slated to be placed. These parks are Genesee Gateway Triangle Park, Hennepin Park, Lincoln Park, Martin Luther King Jr. Park, Glenny Park, Mary Jean Sloan Park Hank Nowak Park, and Agassiz Circle (See **Appendix C** for Cultural Resource Maps). A total of 1.86 acres of GI practices will be placed within parkland. Table 5 summarizes the GI practices and area of GI practices in each of the parks. BSA will maintain the GI practices within these parks and is coordinating with the City of Buffalo DPW to work out a memorandum of agreement for access and maintenance. There are also 19 GI practices located within the ROW areas adjacent to parks. These facilities are summarized in Section 2.5.4. BSA is consulting with SHPO regarding potential effects to the parks both directly and indirectly impacted.

The GI practices will not remove greenspace or recreational areas and were sited to complement the parkland. Rain gardens have been selected to be placed in Genesee Gateway Triangle Park, Lincoln Park, Agassiz Circle, and Martin Luther King Jr. Park. Rain gardens will supplement the existing landscape by enhancing the vegetation with flowering plants and shrubs. Underground storage will be placed in Hennepin Park, Glenny Park, Mary Jean Sloan, and Hank Nowak Park. Other than a new storm drain at the ground surface, the aboveground area will be restored to preconstruction conditions. Finally, porous asphalt pavement will be placed within Humboldt Parkway and on

https://gis.buffalony.gov/portal/apps/webappviewer/index.html?id=594c95209a6744038c9eff70594a820d)

the northern access road to Martin Luther King Jr. Park where traditional pavement currently exists. Installing this GI practice will result in no change in the use or visual character of these areas within Martin Luther King Jr. Park.

Table 5: GI Practices in Parkland Summary			
Park Name	ID	GI Practice(s)	Area (square feet)
	DPW-003	Rain Garden	348
Genesee Gateway Triangle Park	DPW-004	Rain Garden	257
Hennepin Park	DPW-005	Underground Storage	13,447
Lincoln Park	DPW-008	Rain Garden	232
	DPW-009	Porous Asphalt	36,783
Martin Luther King Jr. Park	DPW-010	Rain Garden	3,190
	DPW-011	Porous Asphalt	18,322
Glenny Park	DPW-015	Underground Storage	1,570
Mara lang Class	DPW-024	Underground Storage	1,518
Mary Jean Sloan	DPW-025	Underground Storage	1,071
Hank Nowak Park	DPW-027	Underground Storage	3,057
Agassiz Circle	ROW-142	Rain Garden	1,184
Total			80,981 square feet/ 1.86 acres

2.1.3 Buffalo Municipal Housing Authority

Buffalo Municipal Housing Authority (BMHA) owns and operates 29 housing developments and other sites throughout the City of Buffalo. BSA is proposing to remove pavement, install porous pavement, and disconnect external roof leaders and direct runoff to subsurface stone at the Kenfield-Langfield Homes development as well as the Ferry Girder Apartments. The 11 GI practices proposed on BMHA property encompass approximately 15.95 acres. BSA is working directly with BMHA to develop a memorandum of understanding to outline the frequency of access to GI practices, a maintenance schedule, and a defined maintenance area. BSA will be responsible for maintaining the GI's on BMHA property.

2.1.4 Right-of-Ways

Existing utility and street ROWs will be used to implement 82% of the GI practices. The majority of those GI practices located in ROWs will be placed within the utility and street ROW where the owner and maintenance responsibility

is the City of Buffalo DPW. A total of 484 GI practices will be placed with the City of Buffalo's DPW's ROW comprising 8.26 acres.

Ten GI practices will be placed within the NYS Department of Transportation's (NYSDOT) ROW according to NYSDOT Maintenance Jurisdiction mapping² Table 6 presents the GI practices within NYSDOT ROW. There are also several state routes such as Route 62/Bailey Ave that are owned by NYSDOT but maintained by the City of Buffalo. Table 7 lists these ten GI practices where the ownership and maintenance responsibility are different. BSA is in discussions with NYSDOT about placing the GI's within their ROW and retrofitting storm drains that drain into BSA's sewer system. All applicable permits and authorizations will be obtained prior to construction. Only ten GI practice locations encompassing 0.24 acres will be placed within NYSDOT's ROW while another ten GI practice locations encompassing 0.15 acres will be placed in the ROW of state routes but maintained by the City of Buffalo DPW.

Table 6: GI Practices Located in NYSDOT ROW			
GI Practice	Location	ROW Ownership or Maintenance Jurisdiction	Area (square feet)
Rain Garden (ROW-141)	State Route 198 & Humboldt Parkway West	State Route 198- NYSDOT Humboldt Parkway- City of Buffalo	759
Stormwater Tree Trench (ROW-184)	768 Broadway	NYSDOT	1,513
Stormwater Planter (ROW- 198)	1349 Broadway St/NY 130	NYSDOT	885
Stormwater Tree Trench (ROW-225)	723 Broadway St/NY-130	NYSDOT	694
Stormwater Tree Trench (ROW-292)	1270 Broadway St/NY 130	NYSDOT	1,368
Stormwater Planter (ROW- 293)	1261 Broadway St/NY-130	NYSDOT	718
Stormwater Tree Trench (ROW-8004)	1073 Broadway St/NY-130	NYSDOT	1,320
Stormwater Tree Trench (ROW-8012)	687 Broadway St/NY-130	NYSDOT	609
Stormwater Tree Trench (ROW-8013)	716 Broadway St/NY-130	NYSDOT	1,108
Stormwater Tree Trench (ROW-8014)	615 Broadway St/NY-130	NYSDOT	1,300
	Total 10,274 square feet/ 0.24 acres		

² https://gis.dot.ny.gov/hostingny/rest/services/Geocortex/HDSV/MapServer).

Table 7: GI Practices in Potentially NYSDOT Property with City of Buffalo Maintenance Jurisdiction			
GI Practice	Location	Area (Square Feet)	
Stormwater Tree Trench (ROW-2020)	3070 Bailey Ave/State Route 62	447	
Stormwater Tree Trench (ROW-114)	2502 Bailey Ave/State Route 62	733	
Stormwater Tree Trench (ROW-068)	2426 Bailey Ave/State Route 62	668	
Stormwater Tree Trench (ROW-1018)	2216 Bailey Ave/State Route 62	455	
Stormwater Tree Trench (ROW-1019)	2206 Bailey Ave/State Route 62	584	
Stormwater Tree Trench (ROW-1033)	2151 Bailey Ave/State Route 62	501	
Stormwater Tree Trench (ROW-246)	1237 Clinton St/State Route 354	905	
Stormwater Tree Trench (ROW-306)	1220 Clinton St/State Route 354	613	
Stormwater Tree Trench (ROW-8009)	570 Clinton St/State Route 354	1,020	
Stormwater Tree Trench (ROW-230)	1800 Main St/State Route 5	711	
Total		6,636 square feet/ 0.15 acres	

2.2 Zoning

The City of Buffalo's zoning regulations are governed by the Unified Development Ordinance (UDO), also known as the Buffalo Green Code, which was adopted in 2017 as a comprehensive overhaul of the City's zoning and development laws. The Green Code emphasizes mixed-use, walkable neighborhoods, and incorporates modern standards for building types, land use, and sustainability. It also has a green infrastructure mandate for projects disturbing over 0.25 acres. The Green Code requires stormwater management facilities utilize green infrastructure where practicable for development in all zoning districts. As a result, BSA's implementation of GI practices within CSO basins is consistent with the intent of the City of Buffalo's zoning regulations.

A review of the GI practices that have been sited on parcels, meaning not within ROWs, was conducted to determine the zoning of the parcels involved in the project. Table 8 summarizes the results of the review. GI's will be placed in zoning districts D-OG, D-OS, D-R, N-2C, N-2R, N-3E, N-3R and N-3R/N-3E. The zoning code generally allows community gardens and certain green accessory structures in all these zones.

	Table 8: Zoning Districts Where GI Practices Have Been Sited			
Zoning District	Allowed Uses	GI Practice	Area	
D-OG (Green)	Primary use is limited to parks, greenspace, and similar open spaces. Emphasis on landscaping and trees, designed for passive use, framed by landscape or building facades.	Porous Asphalt (BPS-032, DPW-009, DPW-011) Stormwater Tree Trench (BPS-033) Rain Garden (DPW-003, DPW-004, DPW-008, DPW-010) Underground Storage (DPW-005, DPW-015, DPW-021, DPW-027)	159,460 sqft/ 3.66 acres	
D-OS (Open Space)	Permits uses related to open space and recreation such as parks, playgrounds, outdoor recreational facilities, community gardens, trails and paths, and accessory structures.	Stormwater Tree Trench (ROW-171)	2,875 sqft/ 0.07 acres	
D-R (Residential Campus)	This zone is for large-scale residential developments to accommodate a variety of residential living arrangements often with shared open space and amenities.	Porous Asphalt (BMHA-001, BMHA-002, BMHA-003, BMHA-004, BMHA-005, BMHA-007, BMHA-008, BMHA-009, BMHA-011) Pavement Removal (BMHA-006, BMHA-010)	694,958 sqft/ 15.95 acres	
N-2C (Neighborhood 2, Mixed-Use Center)	This district is designed for walkable mixed-use in some of the City's most compact, traditional neighborhoods. It allows for a blend of residential, commercial, and civic uses.	Porous Asphalt (BPS-052)	27,811 sqft/ 0.64 acres	
N-2R (Neighborhood 2, Residential)	This district is designed for compact, walkable residential neighborhoods and allows certain civic and limited commercial uses under specific conditions.	Rain Garden (BPS-019)	1,650 sqft/ 0.04 acres	
N-3E (Neighborhood 3, Mixed-Use Edge)	N-3E zone is designed for transitional areas at the edges of more intense mixed-use centers featuring a blend of homes and stores.	Porous Asphalt (BPS-013)	9,566 sqft/0.22 acres	

	Table 8: Zoning Districts Where GI Practices Have Been Sited			
Zoning District	Allowed Uses	GI Practice	Area	
N-3R (Neighborhood 3, Restricted)	The N-3R zone is primarily residential use with limited opportunities for mixed-use at certain corners. It is designed for moderately compact residential blocks, typically beyond streetcar neighborhoods.	Rain Garden (BPS-001, BPS-002, BPS-015, BPS-024, BPS-025, BPS-041, BPS-042, BPS-047, Porous Asphalt (BPS-003, BPS-016, BPS-026, BPS-029, BPS-030, BPS-031, BPS-048, BPS-055, BPS-060, BPS-067, BPS-068, BPS-069, BPS-071, BPS-072) Stormwater Tree Trench (BPS-004, BPS-008, BPS-035, BPS-056, BPS-057, BPS-070)	271,948 sqft/6.24 acres	
N-3R/N-3E	Both these districts are primarily residential but allow a mix of housing types. N-3R is more restrictive on commercial use but may allow small-scale commercial use such as a restaurant with a special use permit.	Porous Asphalt (BPS-012)	5,257 sqft/0.12 acres	

The practices that have been sited within ROWs throughout the project area are adjacent to parcels with 29 different zoning codes. These areas are mainly zoned for residential use, mixed-uses, or retail strip. As the Green Code promotes the use of green infrastructure in all districts and allows for community gardens and landscaping in all districts, the proposed project is consistent with the goals and objectives of the zoning code.

2.3 Comprehensive Plan

The City of Buffalo's Comprehensive Plan, titled, *Queen City in the 21st Century*, was adopted in February 2006. The plan places a strong emphasis on sustainable practices and green infrastructure as a core strategy for the City's future development. The Plan's vision is to create a "green, prosperous and accessible city," with explicit policies to protect and restore the urban environment, implement an Environmental Management System, and prioritize capital investments in water, sewer, and streets infrastructure, including green infrastructure components. The Comprehensive Plan cites BSA's Rain Check program as one of the major projects and green initiatives.

2.3.1 Erie County Planning Board GML Section 239-m Referral

A Section 239-m review by the Erie County Planning Board is required when a city, town, or village entity in Erie County considers certain planning or zoning actions that may have inter-municipal or county-wide impacts. Referrals are required to the Erie County Planning Board before final local approval of an action if the property involved is within 500-ft of any of the following:

- A municipal boundary
- The ROW of an existing or proposed county or state road
- The boundary of a farm operation within a state-certified agricultural district.
- · County or state parks or recreation areas
- County of state-owned land on which a public building or institution is located.

Reviews and referrals are mandated by New York State General Municipal Law (GML) Section 239-m. This project involves placing GI practices within the ROW of state roads and within 500-ft of the City of Buffalo boundary; therefore, a referral to the Erie County Planning Board is required. BSA will coordinate with the Erie County Planning Board for review of the project.

2.4 Critical Environmental Area

A Critical Environmental Area (CEA) is a location designated by a local or state agency because it possesses exceptional or unique environmental characteristics. Under SEQRA, the lead agency must consider impacts on the unique characteristics of the CEA. Currently, the City of Buffalo does not have any designated CEAs.

2.5 Cultural Resources

Cultural resources exist as archaeological sites where artifacts have been found or have the potential to be found. They also exist as buildings, sites, and districts that are listed on the National or State Register of Historic Places or have eligibility to be listed. Cultural resources are also places important to a community for gathering, recreating, and practicing traditions. The State Historic Preservation Office (SHPO) under the New York State Office of Parks, Recreation, and Historic Preservation (NYSOPRHP) maintains a database of these sites or sites that have been previously evaluated. The Cultural Resource Information System (CRIS) is SHPO's online system for project proponents to screen their project area for cultural resources.

BSA initiated consultation for this project with SHPO on a Pre-Application Coordination Call on January 28, 2025 (See **Appendix C** for the meeting minutes). SHPO provided some guidance on how BSA could submit information regarding this project due to the number of sites to be evaluated. Consultation and SHPO's evaluation is ongoing. It is anticipated that the GI practices will not have an adverse effect on cultural resources. Section 2.5.1 through 2.5.4 describe the cultural resources identified near proposed GI practices. **Appendix D, Figure 2.5-1** shows an overview of where the cultural resources are located within the project area.

2.5.1 Archaeological Resources

The City of Buffalo has several areas mapped by SHPO as archaeologically sensitive areas. The data layer represents buffer areas around recorded archaeological resources. Locations within these areas may not be archaeologically sensitive, and locations outside these areas may be archaeologically sensitive. SHPO's Archaeology Unit reviewers evaluate sensitivity based on a variety of factors, so these buffer areas are suggestive. As a result, BSA is currently consulting with SHPO regarding the potential to encounter artifacts during construction of these GI practices. Table 9 summarizes the GI practices within archaeologically sensitive areas. Those GI practices that are located on Buffalo Public School property have already been reviewed by SHPO and SHPO determined in a letter dated, March 13, 2025, (See Appendix C) that implementing the GI practices at those locations will not have an adverse effect on archaeological resources. Most of the remaining GI practices are sited within street and underground utility ROWs. These areas have previous ground disturbance. If artifacts were present in these ROWs, they would likely have been previously uncovered or destroyed. BSA will relocate any GI practice that has the potential to have an adverse effect on archaeological resources. If, during construction, an unanticipated discovery is made, work will stop immediately and SHPO will be contacted. No further action except to secure the site will be taken until clear direction is given from SHPO.

Practice ID Practice Type Area (square feet) *BPS-019 Rain Garden 1,650 *BPS-020 Stormwater tree trench 1,980 *BPS-021 Stormwater tree trench 700 *BPS-022 Stormwater planter 1,005 *BPS-023 Porous asphalt 1,320 *BPS-029 Porous asphalt 6,511 *BPS-030 Porous asphalt 9,589 *BPS-031 Porous asphalt 5,468 *BPS-032 Porous asphalt 78,761 *BPS-033 Stormwater tree trench 466 *BPS-041 Rain garden 996 *BPS-041 Rain garden 509 *BPS-042 Rain garden 509 *BPS-044 Stormwater tree trench 890 *BPS-052 Porous asphalt 27,811 DPW-015 Underground storage 1,570 DPW-019 Underground storage 1,150 DPW-020 Underground storage 1,150 DPW-021 Underground storage 1,119	Table 9: GI Practices in Archaeologically Sensitive Areas			
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ROW-074 Stormwater tree trench 640 ROW-075 Stormwater tree trench 813 ROW-076 Stormwater tree trench 550 ROW-077 Stormwater tree trench 504 ROW-078 Stormwater tree trench 431 ROW-079 Stormwater tree trench 810 ROW-080 Stormwater tree trench 472 ROW-081 Stormwater tree trench 679 ROW-1004 Stormwater tree trench 572	ROW-072	Stormwater tree trench	450	
ROW-075 Stormwater tree trench 813 ROW-076 Stormwater tree trench 550 ROW-077 Stormwater tree trench 504 ROW-078 Stormwater tree trench 431 ROW-079 Stormwater tree trench 810 ROW-080 Stormwater tree trench 472 ROW-081 Stormwater tree trench 679 ROW-1004 Stormwater tree trench 572	ROW-073	Stormwater tree trench	450	
ROW-076 Stormwater tree trench 550 ROW-077 Stormwater tree trench 504 ROW-078 Stormwater tree trench 431 ROW-079 Stormwater tree trench 810 ROW-080 Stormwater tree trench 472 ROW-081 Stormwater tree trench 679 ROW-1004 Stormwater tree trench 572	ROW-074	Stormwater tree trench	640	
ROW-077 Stormwater tree trench 504 ROW-078 Stormwater tree trench 431 ROW-079 Stormwater tree trench 810 ROW-080 Stormwater tree trench 472 ROW-081 Stormwater tree trench 679 ROW-1004 Stormwater tree trench 572	ROW-075	Stormwater tree trench	813	
ROW-078 Stormwater tree trench 431 ROW-079 Stormwater tree trench 810 ROW-080 Stormwater tree trench 472 ROW-081 Stormwater tree trench 679 ROW-1004 Stormwater tree trench 572	ROW-076	Stormwater tree trench	550	
ROW-079Stormwater tree trench810ROW-080Stormwater tree trench472ROW-081Stormwater tree trench679ROW-1004Stormwater tree trench572	ROW-077	Stormwater tree trench	504	
ROW-080Stormwater tree trench472ROW-081Stormwater tree trench679ROW-1004Stormwater tree trench572	ROW-078	Stormwater tree trench	431	
ROW-081 Stormwater tree trench 679 ROW-1004 Stormwater tree trench 572	ROW-079	Stormwater tree trench	810	
ROW-1004 Stormwater tree trench 572	ROW-080	Stormwater tree trench	472	
	ROW-081	Stormwater tree trench	679	
ROW-1023 Stormwater tree trench 485	ROW-1004	Stormwater tree trench	572	
	ROW-1023	Stormwater tree trench	485	

Table 9: GI Practices in Archaeologically Sensitive Areas			
Practice ID	Practice Type	Area	
	2.	(square feet)	
ROW-1024	Stormwater tree trench	1,257	
ROW-1025	Stormwater tree trench	610	
ROW-1026	Stormwater tree trench	467	
ROW-1027	Stormwater tree trench	1,242	
ROW-1028	Stormwater tree trench	823	
ROW-1029	Stormwater tree trench	558	
ROW-1030	Stormwater tree trench	629	
ROW-1031	Stormwater tree trench	828	
ROW-1032	Stormwater tree trench	489	
ROW-121	Stormwater tree trench	1,201	
ROW-122	Stormwater tree trench	494	
ROW-141	Rain Garden	759	
ROW-142	Rain Garden	1,184	
ROW-143	Stormwater tree trench	455	
ROW-144	Stormwater tree trench	897	
ROW-145	Stormwater tree trench	748	
ROW-146	Stormwater tree trench	712	
ROW-148	Stormwater tree trench	900	
ROW-158	Stormwater tree trench	726	
ROW-192	Infiltration trench	464	
ROW-2023	Stormwater tree trench	1,501	
ROW-2041	Stormwater tree trench	363	
ROW-2042	Stormwater tree trench	1,607	
ROW-2043	Stormwater tree trench	1,361	
ROW-2045	Stormwater tree trench	626	
ROW-2060	Stormwater tree trench	970	
ROW-230	Stormwater tree trench/bump out	711	
ROW-231	Stormwater planter	796	
ROW-232	Stormwater tree trench	750	
ROW-233	Stormwater planter	1,094	
ROW-246	Stormwater tree trench	905	
ROW-247	Stormwater tree trench	1,354	
ROW-250	Stormwater tree trench	1,436	
ROW-256	Stormwater tree trench	466	
ROW-257	Stormwater tree trench	887	
ROW-258	Stormwater tree trench	753	
ROW-259	Stormwater tree trench	643	
ROW-260	Stormwater tree trench	475	
ROW-261	Stormwater tree trench	796	
1.0 44 201	Stormwater tree trener	150	

Table 9: GI Practices in Archaeologically Sensitive Areas			
Practice ID	Practice Type	Area	
DOM 262		(square feet)	
ROW-263	Stormwater tree trench	410	
ROW-265	Stormwater tree trench	950	
ROW-266	Stormwater tree trench	648	
ROW-296	Stormwater tree trench	946	
ROW-297	Stormwater tree trench	1,065	
ROW-298	Stormwater tree trench	651	
ROW-299	Stormwater tree trench	792	
ROW-300	Stormwater tree trench	453	
ROW-416	Stormwater tree trench	1,033	
ROW-418	Stormwater tree trench	473	
ROW-419	Stormwater tree trench	758	
ROW-800	Stormwater tree trench	1,221	
ROW-8009	Stormwater tree trench	1,020	
ROW-801	Stormwater tree trench	685	
ROW-802	Stormwater tree trench	782	
ROW-803	Stormwater tree trench	2,065	
ROW-804	Stormwater tree trench	857	
ROW-805	Stormwater planter	599	
ROW-806	Stormwater tree trench	877	
ROW-813	Stormwater tree trench	924	
ROW-814	Stormwater tree trench	386	
ROW-819	Stormwater tree trench	1,598	
ROW-820	Stormwater tree trench	795	
ROW-822	Stormwater planter	860	
ROW-823	Stormwater tree trench	799	
ROW-824	Stormwater tree trench	955	
ROW-827	Stormwater tree trench	593	
ROW-828	Stormwater tree trench	900	
ROW-829	Stormwater tree trench	978	
ROW-836	Stormwater tree trench	1,462	
ROW-839	Infiltration trench	1,700	
ROW-840	Infiltration trench	1,752	
ROW-841	Infiltration trench	870	
Total 222,402 sqft 5.11 acres			

*Denotes GI practices that have been reviewed by SHPO and determined these practices will not have an adverse effect on archaeological resources.

2.5.2 Historic Districts, Buildings, and Sites

Buffalo is rich in history and its architectural, cultural, and economic heritage are preserved in 18 local historic districts and 162 local landmarks. Approximately 4% of the parcels within the City are encompassed by a historic district or contain a local landmark. Several historic districts are listed on the National Register of Historic Places and others are only state listed. Given the expanse of the project area where GI practices are proposed, it was likely that many practices would be within historic districts or located on or adjacent to historic properties.

An analysis was undertaken to identify the GI practices that are sited within historic districts or adjacent to local landmarks. Appendix C contains maps of the GI practices that occur within the boundaries of historic districts or directly adjacent to a historic property. Sixteen different historic districts were identified as having proposed GI practices as a result of the analysis. Table presents the historic districts identified and the GI practices that are planned for these areas. BSA is currently consulting with SHPO and the potential effects implementing GI practices may have on the historic character of these districts. It is anticipated that the GI practices that are located within the street and utility ROWs will have no adverse effects. GI practices that integrate trees and flowers such as rain gardens and stormwater tree trenches could enhance the aesthetic appeal to the surroundings within a historic district. BSA welcomes SHPO's comments regarding the project and will avoid and minimize impacts to historic resources as much as practicable.

Tab	Table 10: GI Practices Located in Historic Districts Summary					
Historic District/Landmark	GI Practice(s)	Site Specific ID	Area (Square Feet)			
Agassiz Circle Historic District	Rain Garden	ROW-141	759			
Broadway Filmore Historic District	Stormwater Tree Trenches	ROW-174, ROW-8004, ROW- 8017	4,478			
Buffalo Public School #44 (PS 44)	Stormwater Planter	ROW-198	885			
Buffalo Public School #92 (PS 92)	Stormwater Tree Trench	*BPS-008	1,593			
Delaware Park - Front Park System	Rain Garden	ROW-142	1,184			
Fougeron-Belt Line Historic District	Stormwater Tree Trenches & Bump Out	ROW-033, ROW-1008, ROW- 1009, ROW-165	3,588			

Tak	ole 10: GI Practices Located in Histo	oric Districts Summary		
Historic District/Landmark	GI Practice(s)	Site Specific ID	Area (Square Feet)	
Hamlin Park Historic District	Porous Asphalt, Underground Storage, Stormwater Planters, Stormwater Tree Trenches, Bump Outs, Infiltration Trenches	*BPS-060, DPW-015, ROW-043, ROW-072, ROW-073, ROW-074, ROW-075, ROW-076, ROW-255, ROW-819, ROW-821, ROW-822, ROW-823, ROW-837, ROW-838, ROW-839, ROW-840, ROW-841	32,777	
Holy Name of Jesus RC Church Complex (Eligible)	Stormwater tree trench	ROW-204	1,155	
Kensington Gardens Apartment Complex	Stormwater tree trenches	ROW-128, ROW-129, ROW- 131, ROW-132	3,809	
King, Martin Luther Jr., Park	Porous asphalt, Rain Garden, Stormwater Tree Trenches	DPW-009, DPW-010, DPW- 011, DPW-012, DPW-013, DPW-014	62,380	
Monroe Motor Car Company	Porous asphalt	*BPS-052	2,7811	
New York Central Terminal	Stormwater tree trenches	ROW-171, ROW-172, ROW- 273, ROW-274, ROW-275	6,997	
Parkside Subdivision (East) Historic District	Stormwater tree trench	ROW-143, ROW144	1,352	
Roman Catholic Church of the Transfiguration Complex	Stormwater tree trench	ROW-707	412	
University Heights Summit Park Berkshire Terrace Historic District	Stormwater tree trenches	ROW-263, ROW-265, ROW- 266	2,008	
Winspear Extension Historic District	Stormwater tree trenches	*BPS-035, ROW-122, ROW- 256	1,660	
Total Area of GI Practices Located in Historic Districts				

practice to have no adverse effect.

2.5.3 National or State Register of Historic Places

The National Register of Historic Places (NRHP) is the official federal list of historic sites, buildings, districts, structures, and objects in the United States deemed worthy of preservation for their historical, architectural, archaeological, or cultural significance. It is maintained by the National Park Service under the U.S. Department of the Interior. New York State maintains its own official list of historic places, recognizing properties of significance in history, architecture, and culture across the state. This is the official state-level list of properties, districts, and sites significant in New York's history, architecture, engineering, and culture, administered by SHPO. It uses the same eligibility criteria as the National Register and provides recognition, eligibility for preservation grants, and tax credits for listed properties.

A total of six properties that are eligible for national or state listing on the register of historic places are within the vicinity of proposed GI practices. This effects nine GI practice locations totaling 8,366 square feet. There are two properties that are currently listed with three GI practices near them. A total of 5,397 square feet of GI practices are within the vicinity of the two listed properties. Table 11 lists the properties affected and their historic character. The GI practices and their relative locations are also summarized in the table. **Appendix C** contains maps depicting the location of the resources. BSA is currently consulting with SHPO regarding the potential effects to these historic places. Since the GI practices mainly have a natural appearance with trees and visually appealing herbaceous vegetation above ground, it is anticipated that the GI practices will not have an adverse effect on these historic places.

	Table 11: Historic Places Summary				
GI ID & Practice Type	GI Practice Size (Square Feet)	Historic Building Name Address & Listing Status	GI Location Relative to Historic Building	Historic Character	
ROW-842 Infiltration Trench	1,184	Nu-Way Supermarket 1362 Jefferson Ave Eligible	GI is on Welker St, west of the building. Potentially not visible from the building.	Built in 1940, the building is an example of Modern architecture in Buffalo. The building has a flat roof and blonde birch veneer. Its first use was Nu-Way Grocery, an early chain of self-service grocery stores.	
ROW-842 Infiltration Trench	1,184	Apollo Media Center 1346 Jefferson Ave Eligible	GI is on Welker St, west of the building and on the opposite side of the street.	The Apollo Theater is important for both its role in social history and its architecture. Opened in 1941 by the Basil Brothers, it became a key gathering spot and entertainment hub for Buffalo's Black community.	

		Table 11: F	Historic Places Summary	
GI ID & Practice Type	GI Practice Size (Square Feet)	Historic Building Name Address & Listing Status	GI Location Relative to Historic Building	Historic Character
ROW-1021 & ROW-1022 Stormwater Tree Trenches	1387	Jami Masjid Mosque and Islamic Community Center (Formerly Queen of Peace R.C. Church) 1955 Genesee St Eligible	ROW-1021 is on Forman St, at the southwestern corner of the property. ROW-1022 is on Block St further south of the property.	The building reflects the Gothic Revival Style with its pointed arches, tall spires and intricate stained-glass windows. The building is a significant landmark for its architecture and its role in the history of Buffalo's Polish-American Catholic community.
ROW-113, ROW-114, ROW-115 Stormwater Tree Trenches	2492	Gerard Place Community Center 2535 Bailey Ave Eligible	ROW-113 is west of the intersection of Bailey Ave and Kermit Ave, ROW-114 is south of the property on Bailey Ave and ROW-115 is south of the property on Ericson Ave.	Gerard Place Community Center contributes to the St. Gerard Church Complex. The building reflects the Italian Renaissance Style and has a limestone temple front with a stone foundation and quoins.
ROW-404 Stormwater Tree Trench	416	Kensington Evangelical Lutheran Church 983 Kensington Ave Eligible	The GI practice will be placed northeast of the property on Midvale Ave.	Built in 1926, Kensington Evangelical Lutheran Church reflects Gothic Revival Style with its pointed arches, tall spires and intricate stained-glass windows.
ROW-718 & ROW 719 Stormwater Tree Trenches	1703	Saint Adalbert's Roman Catholic Church 208 and 212 Stanislaus St	ROW-718 is south of the property and adjacent to it, ROW- 716 is east of the property on Kosciusko St.	Saint Adalbert's Church reflects the Romanesque Revival style with rounded arches, intricate brickwork and intricate stained glass windows. It was a significant gathering space for the Polish American population
BPS-019 & BPS-020 Rain Garden	3630	Woodlawn Row House 75-81 Woodlawn Ave Listed	BPS-019 is north of the property on Michigan Ave and BPS-020 is north of the property on Woodlawn Ave.	The Woodlawn Row House is a unique example of wood row houses in Buffalo. Built in 1891, the building originally had 6 sections, three of which have been torn down. The building has slate tile mansard roof and dormers.

	Table 11: Historic Places Summary					
GI ID & Practice Type	GI Practice Size (Square Feet)	Historic Building Name Address & Listing Status	GI Location Relative to Historic Building	Historic Character		
ROW-812	1767	Michigan Row	The GI practice will be	The Michigan Row Housing is		
		House	on the west side of	known for its Unique Queen Anne		
Stormwater		1335-45 Michigan	Michigan Ave across	style wood row housing. Built in		
Tree Trench		Ave	the street from the	1878, constructed with a flat roof		
			property.	and a two-story porch. Field		
		Listed		verification revealed that this		
				structure is no longer at this site.		
				The property is currently vacant.		

2.5.4 Parks & Cemeteries

Parks are considered a cultural resource because they are tangible places that commemorate significant historical events, embody distinctive landscape designs, or reflect patterns of recreation and community gathering. As a result, any potential visual impacts resulting from projects adjacent to parkland must be evaluated and mitigated if necessary. Section 2.1.2 discusses the parks where GI practices are planned. In summary, eight parks will have GI practices implemented effecting 1.77 acres. However, GI practices will be implemented in street ROWs adjacent to other parks and green spaces. Table 12 identifies the parks that have GI practices proposed in the adjacent street ROW. Appendix C contains maps depicting the location of the resources. SHPO will be consulted on the potential effects the GI practices may have on the visual character and experience of park users. The effects are expected to be beneficial in the cases where stormwater tree trenches, stormwater planters, and rain gardens are planned since an increase in tree cover and vegetation in the hardscaped street with concrete curbing and sidewalks adjacent to the parks will soften the streetscape against the greenspace of the park. The underground storage GI practice will have no visible effects on the parkland since the only surficial feature is a storm drain that is generally flush with the ground.

Table 12: GI Practices Adjacent to Parkland				
Park Name	GI Practice ID	Practice Type	Area (Square Feet)	
Bickford & Alice Triangle Park (12 Alice Avenue)	ROW-019	Stormwater Tree Trench	1,490	
Westminster & Stockbridge Triangle Park (571 Stockbridge Avenue)	ROW-414	Stormwater Tree Trench	702	
Westminster & Amherst Triangle Park (798 E Amherst Street)	ROW-415	Stormwater Tree Trench	426	
Dewey Park (388 Dewey Ave)	ROW-513	Stormwater Tree Trench	1,525	
Eddie Dawson Park	DPW-001, DPW-002	Stormwater Tree Trenches	2,383	

Table 12: GI	Table 12: GI Practices Adjacent to Parkland				
Park Name	GI Practice ID	Practice Type	Area (Square Feet)		
Kensington Pool and Splash Pad	ROW-071, ROW-082	Stormwater Tree Trenches	2,304		
Lang Weber Park	ROW-069	Stormwater Tree Trench	1,216		
Schiller Park	DPW-019, DPW-020, DPW-021, DPW-022, DPW-023	Underground Storage	7,043		
Mary Jane Sloan Park/Sleu Park	DPW-024, DPW-025	Underground Storage	2,589		
Lincoln Park	DPW-006, DPW-007	Stormwater Tree Trenches	1,357		
Emerson Park	ROW-189	Stormwater Tre Trench	456		
MLK Jr. Park	DPW-012, DPW-013, DPW-014	Stormwater Tree Trenches	4,082		
Beverley Median	ROW-839, ROW-840	Infiltration Trench, Infiltration Trench	3,452		
То	29,025 square feet/ 0.66 acres				

One cemetery has been identified adjacent to the project area on the east-northeast side. The parcel is a part of the St. Stanislaus Roman Catholic Cemetery. It is parcel 90.16-1-1 in the City of Buffalo; however, the parcels belonging to the Cemetery that contain graves are in Town of Cheektowaga. This parcel is currently vacant land but classified as cemetery by the City. The property has been identified to SHPO as a potential cemetery as part of the consultation for cultural resources. Table 13 identifies the GI practices that are adjacent to the cemetery parcel.

Table 13: GI Practices in Vicinity of Cemetery Parcel					
GI Practice ID	GI Practice ID GI Practice Type Area (Square Feet)				
ROW-104	Stormwater Tree Trench	805			
ROW-105	Stormwater Tree Trench	896			
ROW-2011	Stormwater Tree Trench	661			
ROW-039	Stormwater Tree Trench	1,285			
То	3,647 square feet/0.08 acres				

2.6 Wetlands

Wetlands are those areas where water is present for some period during the growing season to support plants that are adapted or tolerant to the saturated or inundated conditions and as a result, develop hydric soils. They are unique for their hydrologic conditions and their role as an ecotone between terrestrial (dry) areas and fully aquatic ecosystems such as streams, lakes, and rivers. The in-between land and water position allows wetlands to perform valuable ecosystem services that play a vital role in water quality, flood control, erosion and sediment control, groundwater replenishment, habitat and biodiversity, and carbon sequestration and other nutrient biogeochemical cycling.

Wetlands, because of the role that they play in the health of the environment, are regulated under various federal and state laws. The federal Clean Water Act protects and regulates "Waters of the U.S." (WOTUS). WOTUS are defined as all waters currently used or used in the past, in interstate or foreign commerce, all interstate waters, and wetlands, intrastate waters where their use of destruction could affect interstate or foreign commerce, tributaries to all these waters previously mentioned, and wetlands directly adjacent to all these waters. In other words, WOTUS defines the waters and wetlands subject to federal protection and regulation under the Clean Water Act, focusing on their connection to navigable waters and interstate commerce.

NY state regulates freshwater wetlands under Article 24 of the New York State Environmental Conservation Law, known as the Freshwater Wetlands Act. Currently, Article 24 protects wetlands at least 12.4 acres in size or those that qualify as "Unusually Important". Wetlands that meet the criteria to be considered unusually important are protected regardless of their size. Furthermore, Article 24 states that all state protected wetlands have a regulated adjacent area surrounding the wetland boundary. Typically, the regulated adjacent area extends 100-ft from the wetland boundary but may be extended depending on the characteristics of the wetland. Any ground disturbance and tree removal within a state regulated wetland or the regulated adjacent area requires a permit from NYSDEC.

There are no maps that depict the location of all federally and state protected wetlands. Site specific surveys by a qualified wetland scientist are the only definitive way to determine if wetlands are present. There are remote data sources that can be used to screen sites for the likelihood of the presence of wetlands. These sources were consulted to determine the potential for wetlands within or nearby the GI practice locations. These sources include U.S. Geographical Survey (USGS) topographic maps, aerial photography, NYSDEC Informational Freshwater Wetlands Data Layer, NYSDEC's Previously Mapped Wetlands Layer, the US Fish & Wildlife Service's (USFWS) National Wetland Inventory (NWI) mapping, and the US Department of Agriculture's (USDA) Soil Survey Geographic (SSURGO) Database and Hydric Soil Ratings. This information provided an expectation of the conditions at the GI locations. The project area is urbanized with a high percentage of impervious surface cover and the expectation of this analysis was that very few areas would be suspected of containing wetlands. None of the GI practices were co-located with any NWI wetland or NYSDEC wetlands (See Figure 2.6-1 in Appendix D). Those GI practices that were located on vacant land or on greenspace were field verified for wetlands in the spring of 2025. No GI practices are located on wetlands and no federal or state wetland permits are required to implement the project.

2.7 Surface Waterbodies

The City of Buffalo's economic heritage is linked to its proximity to Lake Erie and shipping channels of the Great Lakes. The Buffalo River and the Black Rock Canal are other waterways used for shipping and receiving goods during Buffalo's great industrial era. Scajaquada Creek is a smaller waterway that flows west from its headwaters in the Town of Lancaster, approximately 10 miles east, and flows approximately 3 miles through the City before emptying into the Niagara River (See **Figure 2.7-1** in **Appendix D**). Scajaquada Creek is shallow and therefore not

useful for shipping. During the development of the City, the Creek became a problem for the City due to flooding, sewage dumping by residents, industrial pollutants, and from the nuisance of mosquitoes. In the early 1920's, the City of Buffalo undertook the "Scajaquada Creek Drain Project" in which approximately 3.7 miles of Scajaquada Creek would be buried in a concrete drainage system from the city border with Cheektowaga to Forest Lawn Cemetery. Enclosing the creek solved the public demand for action about the polluted waterbody that wound through East Side neighborhoods that also flooded. This portion of Scajaquada Creek is known today as the Scajaquada Drain.

The Scajaquada Drain is a part of BSA's combined sewer system. The Scajaquada Drain was designed to handle significant water flow from storm events and runoff making the drain a major conduit for stormwater management on the East Side. Since the Scajaquada Drain carries Scajaquada Creek, there is much interest in reducing the amount of combined sewer discharge into the drain. NYSDEC has classified Scajaquada Creek as a Class C stream up to and through the Scajaquada Drain. Article 15 Protection of Water permits are not required to disturb the bed or banks of Class C streams. The daylighted stream is classified as a Class B stream at Forest Lawn Cemetery west to the confluence with the Black Rock Canal. Class B streams are protected under Article 15 of New York State Environmental Conservation Law. Furthermore, Scajaquada Creek is an impaired waterway on the Section 303(d) List. Section 303(d) of the federal Clean Water Act gives impaired waterways resources to develop total maximum daily load (TMDL) standards and reduce the amount of pollutants to the receiving waterbody. The main pollutants identified for Scajaquada Creek are fecal coliform, phosphorus, and lack of dissolved oxygen linked to sewage and urban runoff. BSA's GI project contributes to the reduction of pollutants to Scajaquada Creek to assist in the federal, state, and local efforts to increase water quality in the waterbody.

Since the Scajaquada Drain is a major part of BSA's combined sewer system, several GI practices have been sited over the drain. The GI practices may or may not directly drain into the Scajaquada Drain. That will be determined once site specific engineering of each GI practice is completed. **Figure 2.7-1** in **Appendix D** is an overview map of Scajaquada Creek and Scajaquada Drain relative to the project area and location of GI practices. Table 14 lists the specific GI practices and the size of the practice that is located over the drain. Approximately 0.2 acres of GI will be placed over the Scajaquada Drain. Three hundred seventy-one of the 558 proposed GI practices result in 28.40 acres of GI placed within the Scajaquada Creek watershed. Overall benefits to Scajaquada Creek are expected to be realized over time with less combined sewer being discharged into the surface waterbody.

Table 14: GI Practices Located Over the Scajaquada Drain					
ID	Nearest Parcel Address	GI Practice Type	GI Practice Location	Area (Square Feet)	
ROW-015	75 Stevens Ave	Stormwater Tree Tench	Scajaquada St ROW	654	
ROW-016	68 Stevens Ave	Stormwater Tree Tench	Scajaquada St ROW	931	
ROW-025	75 Stevens Ave	Stormwater Tree Tench	Scajaquada St ROW	382	
ROW-1003	77 Hagen St	Stormwater Tree Tench	Kerns Ave ROW	748	
ROW-1004	2078 Genesee St	Stormwater Tree Tench	Kerns Ave ROW	572	

	Table 14: GI Practices Located Over the Scajaquada Drain				
ID	Nearest Parcel Address	GI Practice Type	GI Practice Location	Area (Square Feet)	
ROW-1006	78 Hagen St	Stormwater Tree Tench	Kerns Ave ROW	692	
ROW-1016	181 Zenner St	Stormwater Tree Tench	Scajaquada St ROW	807	
ROW-1017	164 Wende St	Stormwater Tree Tench	Scajaquada St ROW	892	
ROW-2046	75 Grider St	Stormwater Tree Tench	Scajaquada St ROW	800	
ROW-2047	61 Grider St	Stormwater Tree Tench	Scajaquada St ROW	697	
ROW-2048	74 Carl St	Stormwater Tree Tench	Scajaquada St ROW	609	
ROW-2053	74 Carl St	Stormwater Tree Tench	Scajaquada St ROW	1,045	
	Total Area of GI Practices Over the Scajaquada Drain				

2.7.1 Stormwater Management

The entire project area is located within the City of Buffalo's Municipal Separate Storm Sewer System (MS4) District. The majority of the City of Buffalo is served by a combined sewer system which collected both surface runoff and sanitary sewer, which is ultimately conveyed to BSA's Bird Island Wastewater Treatment Plant (WWTP). There are numerous locations throughout the city where, when the combined system becomes overwhelmed during large storm events, combined sanitary and storm runoff will discharge directly to adjacent surface water bodies without being treated. These areas are referred to as combined sewer overflows (CSOs). The flow from the WWTP and the CSOs is regulated by NYSDEC via State Pollutant Discharge Elimination System (SPDES) permits held by BSA.

BSA is identified as the MS4 administrator within the City of Buffalo, as they are required to implement measures throughout the city so that they can meet the discharge limitations of their SPDES permits. The City regulates these control measures through the Green Code, which gives BSA plan review authority, requires green infrastructure, and the development of Stormwater Pollution Prevention Plans (SWPPPs) at lower thresholds than that of the NYSDEC.

As the entire scope of the project is to provide green infrastructure stormwater management, the GI project is in compliance with this component of the Green Code and the MS4 regulations. The project will ultimately help reduce the runoff quantity reaching the combined system during peak runoff events and help slow the flow to further reduce the peaks. Additionally, the reduced flow will help to ease the burden of treatment at the Bird Island WWTP.

Each construction project will be required to provide appropriate erosion and sediment control measures during construction to minimize pollution as a result of the construction activities. As the MS4 administrator, BSA may additionally require one or more SWPPPs be prepared for the proposed work.

2.8 Rare, Threatened, and Endangered Species

New York State's rare, threatened, and endangered species are tracked by NYSDEC's Natural Heritage Program (NHP). Rare species or species with special concern are a ranking the NHP denotes to species where their populations are low in numbers or declining but not at levels that warrant protection under the New York State Endangered Species Act (6 NYCRR Part 182). The NHP records the locations where rare, threatened, and endangered species have been observed. The site-specific information is not publicly available but a buffer area around the general area is shown on the NYSDEC's Environmental Resource Mapper (ERM) (https://dec.ny.gov/nature/animals-fish-plants/biodiversity-species-conservation/biodiversity-mapping/environmental-resource-mapper). If a project sponsor's project area overlaps with a buffer of a protected species, the project sponsor is directed to contact NYSDEC Division of Permits to determine the need for an incidental take permit or if avoidance and mitigation measures can be implemented to avoid an adverse impact on the species. The analysis and consultation BSA is undertaking regarding state listed species is discussed in Section 2.8.1.

The federal Endangered Species Act is administered by U.S. Fish and Wildlife Service (USFWS) for terrestrial and freshwater plants and animals. Those species that are federally listed are automatically listed on the state list under 6 NYCRR Part 182. The USFWS depends on the state NHP to maintain site specific data and oversees activities within a federally listed species' range. Consultation with USFWS is required by federal agencies prior to the agency taking an action such as issuing a permit or for project sponsors whose activities may effect the habitat or species directly.

2.8.1 State Listed Species

The project area was screened using the ERM to determine if there were any records of known occurrences of rare, threatened, and endangered species within the project area. The ERM revealed three buffer areas overlapped with the project area. The buffers have a 0.5-mile radius and the ERM indicates that American peregrine falcon (*Falco peregrinus anatum*), a state endangered species, can be found within the buffer. Each buffer is shown on **Figures 2.8-1** through **2.8-3** in **Appendix D**.

Peregrine falcons are closely associated with their nesting territory and foraging areas. They hunt in the air by attacking flying birds from above and chasing them from behind. As falcons, they are known to fly at high speeds, but what makes a peregrine falcon different from most other birds of prey is their behavior of dive and strike in mid-air killing their prey with a sharp blow (Recovery Plan 1982). Peregrine falcons nest on cliffs and high ledges. The nest is unimpressive as they don't build a stick nest but prefer gravel or rock surfaces. Peregrine falcons require only a few basic elements in their habitat: a high vantage point for nesting and an open area with abundant prey. This has allowed the peregrine falcon to become adapted to city life by nesting high on buildings and feeding on pigeons (*Columba livia*), European starlings (*Sturnus vulgaris*), house sparrow (*Passer domesticus*), and other birds tolerant of urban environments. Nesting pairs of peregrine falcons in the City of Buffalo are known on the MacKay Heating Plant Tower at the University of Buffalo South Campus and the Statler Building in downtown. Both locations have had live cameras broadcasted online for public viewing. Two of the buffers overlapping with the project area are centered around these locations. The third is centered over the Central Terminal.

There are 32 GI practices that occur with the buffer area around each nesting site or known location of peregrine falcon. Table 15 lists the GI practices and the distance of the center of the buffer. BSA is currently consulting with NYSDEC to determine if any construction timing restrictions or other mitigation methods would be necessary to avoid disturbance to nesting peregrine falcons. The birds are accustomed to vehicular traffic and the normal commotion of a cityscape. The GI practices will be at ground level and would require small area construction and

noise levels are not anticipated to increase background levels by much. There would be no work conducted at the buildings or on the buildings themselves with the known nests or on the streets immediately around the nest locations. The closest GI practice is 995 ft away while most of the locations are at over 1,500 ft. A total of 0.75 acres of GI practices fall within the buffer areas of the peregrine falcon. All the GI practices proposed in the 0.75 acres contain tree plantings. Increasing the tree cover throughout the city will provide more habitat for urban tolerant birds resulting in a positive secondary benefit to peregrine falcons that feed on city dwelling birds.

Table 15: GI Practices within 0.5-mile of Peregrine Falcon Nest/Location						
GI Practice ID	Nearest Parcel Address	GI Practice Type Proposed	Distance from the Center of Buffer	Area (Square Feet)		
DPW-006	Lincoln Park	Stormwater Tree Tench	2,566 ft	719		
DPW-007	Lincoln Park	Stormwater Tree Tench	2,360 ft	638		
ROW-161	612 Howard St	Stormwater Tree Tench	2,483 ft	1,614		
ROW-163	82 Peck St	Stormwater Tree Tench	2,556 ft	896		
ROW-169	612 Filmore Ave	Stormwater Tree Tench	2,418 ft	2,174		
ROW-171	111 Memorial Dr	Stormwater Tree Tench	1,388 ft	2,875		
ROW-172	Peckham St & Curtiss St	Stormwater Tree Tench	1,264 ft	1,870		
ROW-174	1094 Broadway St	Stormwater Tree Tench	1,955 ft	653		
ROW-175	1164 Broadway St	Stormwater Tree Tench	1,865 ft	803		
ROW-199	60 Ashley St	Stormwater Tree Trench/Bump Out	1,837 ft	789		
ROW-200	66 Grimes St	Stormwater Tree Trench/Bump Out	1,591 ft	1,125		
ROW-201	65 Grimes St	Stormwater Tree Trench/Bump Out	1,511 ft	760		
ROW-202	96 Grimes St	Stormwater Tree Trench/Bump Out	1,862 ft	734		
ROW-223	389 Peckham St	Stormwater Tree Trench	2,503 ft	1,436		

Table 15: GI Practices within 0.5-mile of Peregrine Falcon Nest/Location					
GI Practice ID	Nearest Parcel Address	GI Practice Type Proposed	Distance from the Center of Buffer	Area (Square Feet)	
ROW-231	49 E Ferry St	Stormwater Tree Trench	2655 ft	796	
ROW-232	47 E Ferry St	Stormwater Tree Trench	2,502 ft	750	
ROW-258	479 Lisbon Ave	Stormwater Tree Trench	2,267 ft	753	
ROW-259	3365 Bailey Ave	Stormwater Tree Trench	1,661 ft	643	
ROW-260	3251 Bailey Ave	Stormwater Tree Trench	2,585 ft	475	
ROW-263	193 Lisbon Ave	Stormwater Tree Trench	1,214 ft	410	
ROW-265	192 Lisbon Ave	Stormwater Tree Trench	1,123 ft	950	
ROW-272	34 Memorial Dr	Stormwater Tree Trench	2,436 ft	632	
ROW-273	59 Memorial Dr	Stormwater Tree Trench	2,320 ft	644	
ROW-274	20 Memorial Dr	Stormwater Tree Trench	2,520 ft	698	
ROW-275	114 Memorial Dr	Stormwater Tree Trench	1,776 ft	910	
ROW-292	1270 Broadway St	Stormwater Tree Trench	2,132 ft	1,368	
ROW-293	1261 Broadway St	Stormwater Tree Trench	2,043 ft	718	
ROW-302	81 Ashley St	Stormwater Tree Trench	1,890 ft	459	
ROW-8002	384 Curtiss St	Stormwater Tree Trench	995 ft	714	
ROW-8003	1132 Broadway St	Stormwater Tree Trench	1,985 ft	1,004	
ROW-8004	1073 Broadway St	Stormwater Tree Trench	1,898 ft	1,320	
ROW-8017	964 Broadway St	Stormwater Tree Trench	2,656 ft	2,505	
Total <i>i</i>	Area of GI Practices with	nin 0.5 miles of Peregrine Falcon Occ	currence	32,837 square feet/	

	Table 15: GI Practices within 0.5-mile of Peregrine Falcon Nest/Location					
GI Practice ID	GI Practice ID Nearest Parcel Address GI Practice Type Proposed the Center of Buffer					
				0.75 acres		

2.8.2 Federally Listed Species

The USFWS maintains the Information for Planning and Consultation (IPaC) online project planning tool designed to streamline the environmental review process for projects that might affect federally protected species and habitats. IPaC helps users quickly identify species that are protected or being considered for protection under the federal Endangered Species Act (ESA) that may be impacted by a proposed project. It also allows users to obtain documentation to initiate or complete consultation under Section 7 of the ESA. Note that species information is based on the range of a species and not based on known occurrences. USFWS advises that project proponents consult with the NYSDEC Natural Heritage Program to obtain site specific data. As such, species that are on the Official Species List derived from IPaC are an identification of the listed species whose ranges overlap with the project area and are not an account of species in the project area.

An Official Species List was obtained for the project area and is included in **Appendix C**. Species identified by the Official Species List include:

- Northern Long-eared bat (Myotis septentrionalis)- Endangered
- Salamander Mussel (Simpsonaias ambigua) Proposed Endangered
- Monarch Butterfly (*Danaus plexippus*)- Proposed Threatened

An evaluation of NYSDEC's ERM found no known occurrences of northern long-eared bat within or nearby the project area. Northern long-eared bat habitat consists of expansive forests and these areas are over 10-miles from project area. Within IPaC, the USFWS's Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key was completed for the project and yielded a determination of "No Effect" for the species. No further consultation is required for the project regarding this species.

The remaining species are not yet listed; they are proposed for listing. There are no protections for proposed species, only that federal agencies consider if their actions could jeopardize the continued existence of the species. Salamander mussel is unique in that it requires mudpuppy salamander (*Necturus maculosus*) as a host for the larval stage, known as glochidia. All other freshwater mussels require fish as a host for glochidia. NYSDEC maintains a list of streams and stream segments where freshwater mussels are likely to be found. Scajaquada Creek is not a mussel screening stream and the water quality in Scajaquada Creek is insufficient to host mudpuppy salamander and the salamander mussel; as such, the project is not anticipated to have any impact on the salamander mussel. Monarch butterfly may be found incidentally within the City of Buffalo wherever there are foraging flowers and milkweed (*Asclepias spps.*). Overall, increasing vegetative cover in the city will increase the availability of pollinator habitat where very little currently exists. The project will not have a negative impact on monarch butterfly.

2.9 Floodplains

A review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) reveal that one GI practice is located within a flood zone. A Stormwater Tree Trench with ID of ROW-296 is within Zone AE for the

Buffalo River with a regulatory floodway. Zone AEs are detailed studies that provide published regulatory base flood elevations and discharges. **Figure 2.9-1** in **Appendix D** depicts the GI location relative to the FEMA floodway/Zone AE. The floodway is located along the Buffalo River, and this GI practice is located in the southern portion of the project area on Littell Ave. The Stormwater Tree Trench will be 946 square feet and located in the ROW of the street. The addition of trees and below ground piping will not have any adverse effect on the regulatory floodway. As the project is located within a FEMA floodplain, the project will require a Floodplain Development Permit from the City of Buffalo.

2.10 Remediation Sites

Buffalo, New York, has numerous remediation sites due to its industrial past, which led to significant environmental contamination, particularly along the Buffalo River. Programs like the Brownfield Cleanup Program have been crucial in transforming Buffalo's industrial landscape by providing incentives for developers to remediate and redevelop contaminated land. The NYSDEC oversees various remediation efforts, including the cleanup of contaminated sites and spills. They maintain public databases, and these were screened to determine if any of the GI practices were within the proximity of any contaminated sites where coordination with NYSDEC to determine a potential risk during construction would be required. Six GI practices are located adjacent to parcels identified by NYSDEC as contamination sites. Figures 2.10-1 through Figure 2.10-5 in Appendix D depict the location of these practices. Four of the six have been remediated to NYSDEC's satisfaction; therefore, the GI practices adjacent to these sites are considered low risk of encountering contamination during construction. The remaining two have a Classification of N and require no further action currently. The GI practices will be placed within the street ROW and it is assumed that any residual contamination that might be at these locations is restricted to the parcel. Construction documents for these identified parcels will include language directing the contractor to stop work if any signs of contaminated materials are identified, at which additional investigation may be required, and contaminated materials will be disposed of in accordance with all state and federal regulations. Table 16 summarizes the remedial sites found adjacent to proposed GI practices.

Table 16: GI Practices Adjacent Remedial Sites Summary					
GI Practice ID / Type	Area (Square Feet)	Nearest Parcel Address / Site Name	Clean Up Status	Owner	
ROW-023 Stormwater Tree Trench	657	17 Pauline St Brownfield Cleanup Program - 240 Kensington Avenue BCP Site	Classification Code: N (No Further action at this time) Brownfield Cleanup agreement was terminated due to lack of funding	City Of Buffalo	

Table 16: GI Practices Adjacent Remedial Sites Summary					
GI Practice ID / Type	Area (Square Feet)	Nearest Parcel Address / Site Name	Clean Up Status	Owner	
ROW-2020 Stormwater Tree Trench	447	3070 Bailey Ave Brownfield Cleanup Program - Bailey and Kensington	Classification Code: N (No Further action at this time) Environmental condition of site is under review and will be revised as more information becomes available	The Evergreen Foundation of Western New York, Inc.	
ROW-2025 Stormwater Tree Trench	507	William L Gaiter Parkway Kensington Ave - Environmental Restoration Program	Classification Code: C (Remediation has been satisfactorily completed under a remedial program)	Safetec International LLC	
ROW-2037 Stormwater Tree Trench	1,131	895 Kensington Ave Kensington Avenue - Environmental Restoration Program	Classification Code: C (Remediation has been satisfactorily completed under a remedial program)	Safetec International, LLC	
ROW-250 Stormwater Tree Trench	1,436	542 Elk St Mobil Oil Corporation - State Superfund Program & ExxonMobil Oil Former Buffalo Terminal - Brownfield Cleanup Program	Classification Code: C (Remediation has been satisfactorily completed under a remedial program)	Modern Real Estate, LLC	
ROW-829 Stormwater Tree Trench	978	1157 Michigan Ave Brownfield Cleanup Program - Michigan- Best Development	Classification Code: C (Remediation has been satisfactorily completed under a remedial program)	Michigan & Best LLC	

	Table 16: GI Practices Adjacent Remedial Sites Summary					
Gl Practice ID / Type	Area (Square Feet)	Nearest Parcel Address / Site Name	Clean Up Status	Owner		
	5,156 square feet /0.12 acres					

2.11 Disadvantaged Communities & Potential Environmental Justice Areas

NY's Climate Justice Working Group (CJWG) developed criteria to identify disadvantaged communities (DAC) to ensure that frontline and otherwise underserved communities benefit from the state's transition to cleaner, greener sources of energy, reduced pollution and cleaner air, and economic opportunities with the passage of the Climate Leadership and Community Protection Act. A New York State Disadvantaged Community (DAC) is defined as a community that:

- Bears burdens of negative public health effects, environmental pollution, and impacts of climate change,
- Meets certain socioeconomic criteria or has high concentrations of low- and moderate-income households.

The purpose of DAC is to prioritize state investments, benefits, and pollution reduction in communities most affected by climate and environmental hazards. DAC communities in NY were identified by using Census tracts that were scored based on 45 different indicators, and those with higher scores relative to others in the state are designated as DACs. Approximately 35% of New York's census tracts are currently identified as disadvantaged communities. DAC mapping data is available from New York State Energy Research and Development Authority (NYSERDA).

Potential Environmental Justice Areas (PEJA) are similar in that these communities may face more disproportionate environmental burdens, but they differ in their criteria, purpose, and how they are applied. The purpose of PEJAs is to guide environmental justice reviews under SEQRA and focus on areas that may experience disproportionate adverse environmental impacts. They are based on Census data with block groups with high percentages of minority residents and/or residents with low income.

On January 29, 2025, NYSDEC announced draft amendments to SEQRA that incorporated what is known as the Environmental Justice Siting Law (EJSL) or the Cumulative Impacts Bill (Chapter 840 of the Laws of 2022). The EJSL mandates environmental justice concerns be considered in SEQRA review process and NYSDEC state permit approval process. The draft amendments to SEQRA are implementing this requirement and NYSDEC is expected to release additional changes to comply with how permits will be issued from the EJSL. The amendments are not yet in effect. However, BSA has been proactive in considering EJ and DAC issues in their approach with planning and implementing this project because it reflects BSA's dedication to help strengthen all communities in Buffalo in becoming climate resilient and environmentally sustainable. The Rain Check Plan included a Community Strength Plan on how implementing the project would provide economic benefits, potentially increase property values, create job opportunities and realize improvements in the local economy.

Nonetheless, this environmental assessment supports BSA's SEQRA review of the GI project for the targeted CSO's and the social resources in the project area were evaluated. Figure 2.11-1 in Appendix D depicts PEJA and DAC areas related to the project area. The majority of the project area is a PEJA and the entire project area is DAC. BSA acknowledges that the project area is located within both. This location was intentionally chosen to ensure that the

project directly benefits communities that have historically faced disproportionate environmental burdens and to support ongoing efforts toward environmental justice and equitable resource allocation. The site selection for the GI practices integrated a Green Infrastructure Equity Index (GI Equity Index) that considered environmental, economic, and social factors onto the engineering approach when evaluating opportunities for green infrastructure. GI can be a tool for neighborhood transformations by creating green space, adding vegetation, and upgrading aging infrastructure. BSA undertook efforts for inclusive outreach and public engagement when planning for the project. BSA continues to engage residents, community-based organizations, and other stakeholders to inform them about the project's progress. Overall, the GI project in this project area will have environmental and social benefits in many historically disinvested areas with disproportionate environmental burdens.

3 Impacts

The CSO Green Infrastructure Project is a part of BSA's LTCP to reduce CSO discharge events and improve water quality of local waterways during rain and snowmelt events. Implementation of the LTCP will comply with EPA's National CSO Control Policy and revised water quality standards from CSOs and BSA's SPDES permit. The project will involve placing GI practices in CSO Basins 6, 26, 27, 33, and 53. These areas were selected as these communities have high impervious surface coverage, low tree canopy cover, and socioeconomic vulnerability as they are historically underserved areas and can disproportionately experience pollution and flooding. In addition, these basins have roughly half the City of Buffalo's population on a quarter of the land area. The project area evaluated in this environmental assessment is 8,977 acres in size with 558 GI practice locations spread throughout.

The natural resources evaluated in this environmental assessment to support the SEQRA review include:

- Land Use
- Zoning
- City of Buffalo's Comprehensive Plan
- Critical Environmental Areas
- Cultural Resources
- Wetlands
- Surface Waterbodies
- Rare, Threatened, and Endangered Species
- Floodplains
- Remediation Sites
- DACs & PEJAs

Table 17 summarizes the resources, the number of GI practices identified to potentially affect the resources, the total area of effect, and a conclusion on the potential impacts on the resource. The most apparent issues are the potential effects the GI practices could have on the rich and numerous cultural resources within the project area. BSA is consulting with SHPO to garnish SHPO's comments on the project and render a determination. SHPO has already reviewed the proposed GI practices at the public-school properties and determined that no adverse effects would occur to the cultural resources located on those properties. The GI practices were sited to enhance the aesthetics of the surroundings or be underground and have no effect on the surrounding area within parks or within historic districts or adjacent historic properties. It is anticipated that the GI practices will have no adverse effects on these resources or BSA will reevaluate those practice locations that could have an impact to reduce their effect.

Another issue that will be resolved through consultation with the NYSDEC is the GI practices that are within 0.5 miles of the known or historical locations of peregrine falcon nesting sites. Peregrine falcons nest high on the ledges of buildings within cities and disturbance to the outside of buildings high in elevation when nesting pairs are present could cause the falcons to abandon the nest or disturb the nestlings. Peregrine falcons also forage midair near their nesting sites therefore work on the outside of buildings is a potential concern. The GI practices are all ground level and no practice is located around the base of the building where a nesting site is located. It is anticipated that the proposed project will not have an adverse effect on nesting peregrine falcons. BSA will work with NYSDEC to make a determination on this state endangered bird that is found within the project area.

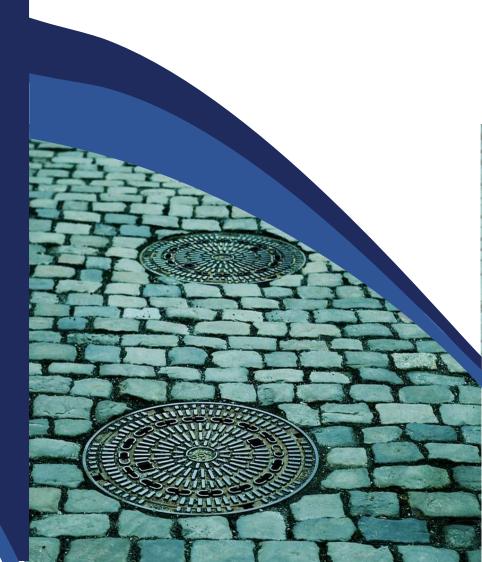
Finally, the project area is within mapped DAC and PEJA areas. These communities are vulnerable to adverse effects from climate change and disproportionately experience environmental burdens. The GI project is designed to avoid adverse environmental impacts and enhance the environment of the project area. Improvement to water quality, reduction in flooding, improvements to the surrounding aesthetics, and improvements to pedestrian safety in these communities are expected to improve the quality of life for residents, increase property values, and economic investments and opportunities. Overall, these are the objectives of the project, and the benefits will be realized first in these communities that typically are not targeted for these types of improvements.

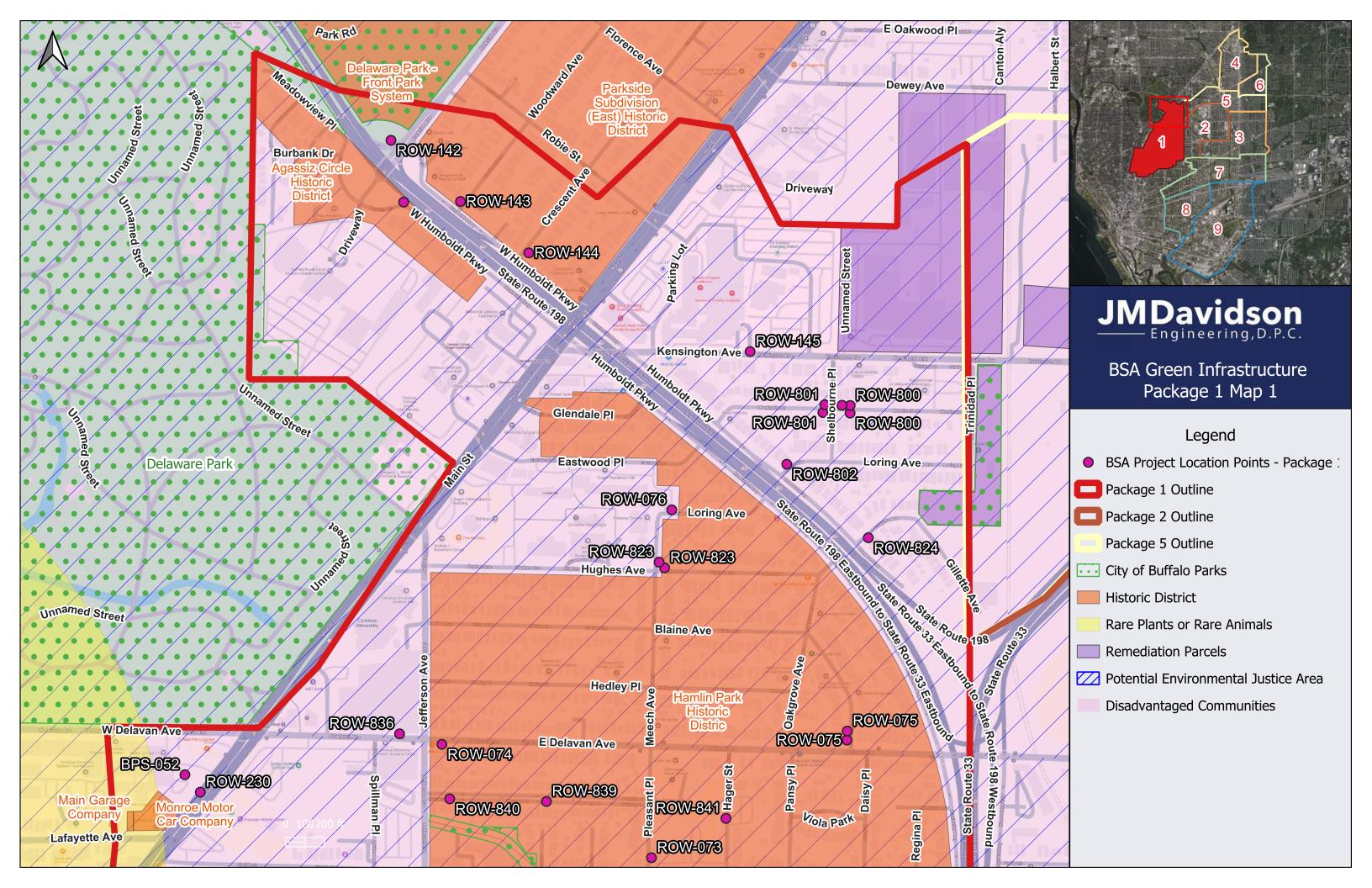
Table 17: Project Impact Summary						
Resource Evaluated	Number of GI Practices Effecting the Resource	Total Area of Effect	Impact Conclusion on Resource			
Land Use						
Street/Utility ROW	503	10.09 acres	The GI practices are small in size and have			
Public Schools	34	9.12 acres	been sited to have minimal impact on the			
Parks & Greenspace	12	1.86 acres	operation and usage of the overall site			
Residential Campus (BMHA)	11	15.95 acres	locations.			
Zoning						
	56	26.94 acres	The City of Buffalo's Green Code mandates Green Infrastructure for new development in all districts. BSA's GI project is an allowable use in these districts.			
Comprehensive Plan						
	558	37.02 acres	BSA's GI project is consistent with the City of Buffalo's Comprehensive Plan.			
Critical Environmental Areas						
	0	0	There are no designated Critical Environmental Areas within the project area.			
Cultural Resources						

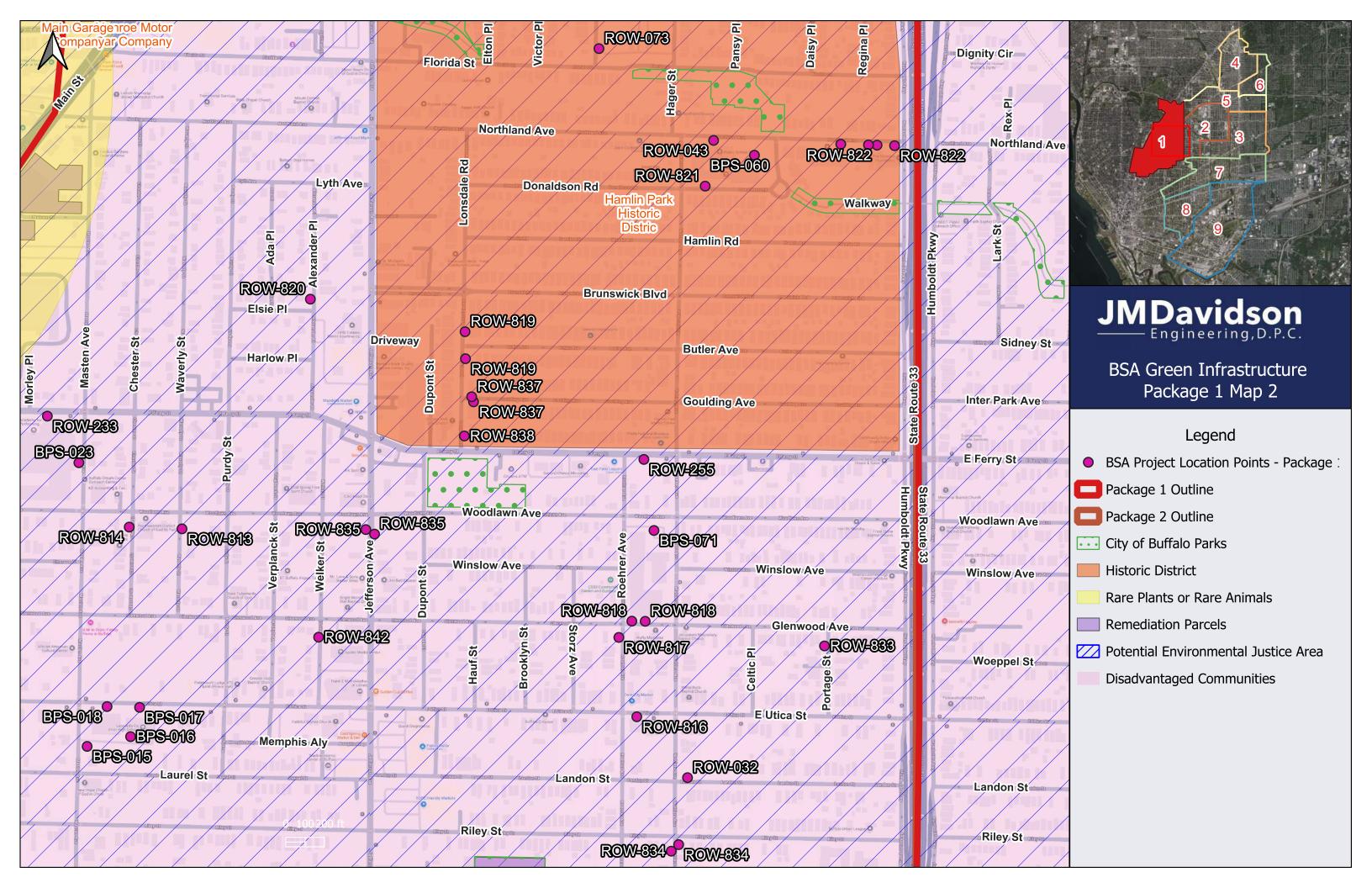
Table 17: Project Impact Summary				
Resource Evaluated	Number of GI Practices Effecting the Resource	Total Area of Effect	Impact Conclusion on Resource	
Archeologically Sensitive Areas Historic Districts National/State Listed National/State Eligible Parks (directly) Parks (adjacent) Cemetery Property	110 56 3 9 12 19 4	5.11 acres 3.51 acres 0.12 acres 0.19 acres 1.86 acres 0.59 acres 0.08acres	BSA is currently consulting with SHPO to make a final determination on how the project will affect cultural resources. It is anticipated that the GI practices will not have an adverse effect since vegetation is used in most of the GI practices and will soften the hardscape surrounding these resources.	
Wetlands	I .	l		
	0	0	The project will not impact wetlands.	
Surface Waterbodies	l			
Scajaquada Drain Buffalo MS4 District / Combined Sewer District	12 558	0.02 acres 37.02 acres	The GI practices will be placed on the surface where the Scajaquada Drain holds Scajaquada Creek below the ground. As a result, the project will not have a direct impact on surface waterbodies. The goal of the project is to reduce runoff that is received by the City's combined sewer system and reduce CSO discharge to improve water quality in receiving waterbodies such as Scajaquada Creek.	
Rare, Threatened, Endangered S	Species			
State Endangered Peregrine Falcon	32	0.75 acres	The project is not anticipated to have an adverse impact on the state-listed peregrine falcon. BSA is currently consulting with NYSDEC to confirm this conclusion.	
Federally/State Endangered Northern Long-eared bat	0	0 acres	The Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key was completed for the project and yielded a determination of "No Effect". No further consultation is required for the project.	
Floodplains				

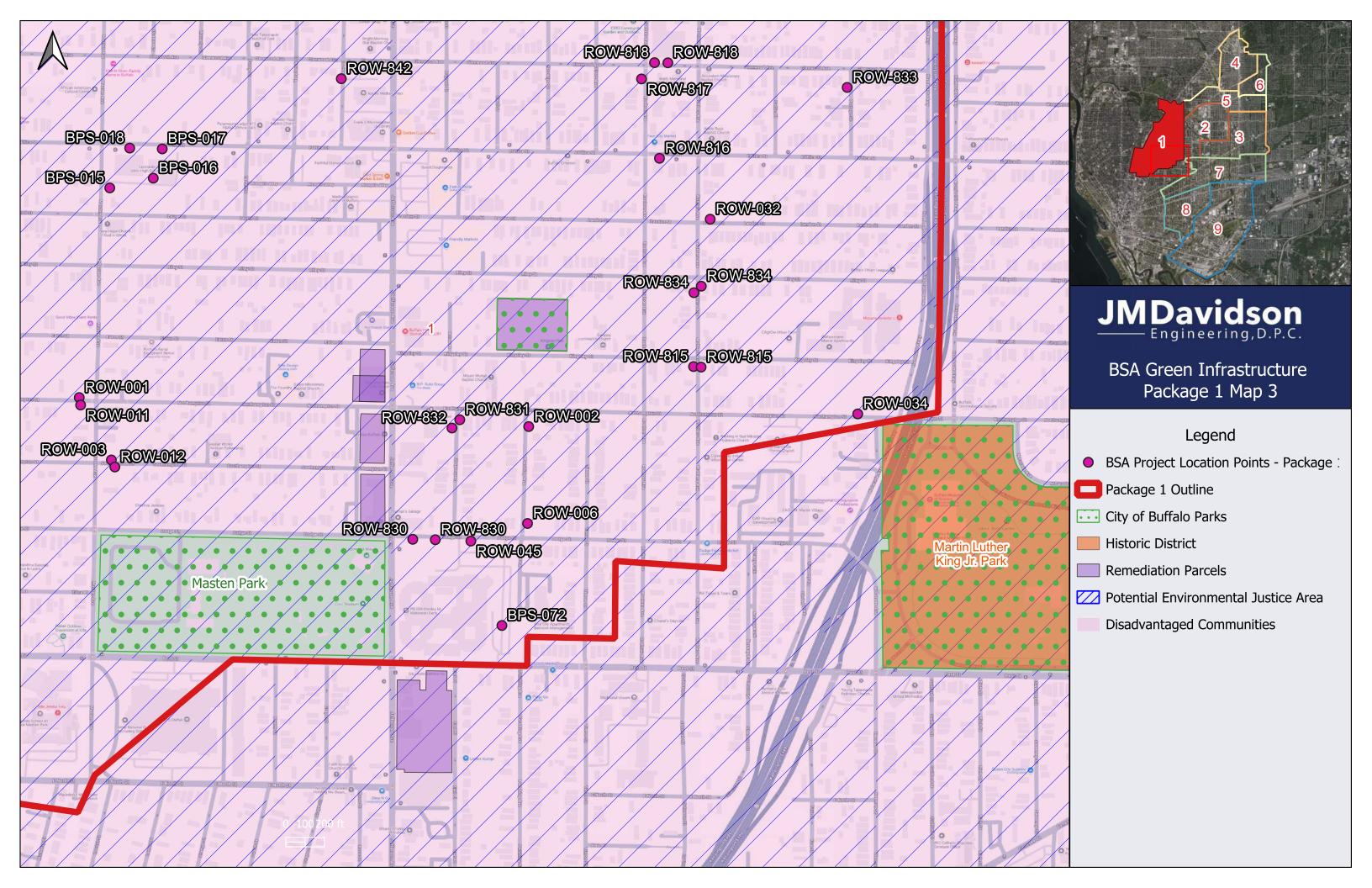
Table 17: Project Impact Summary				
Resource Evaluated	Number of GI Practices Effecting the Resource	Total Area of Effect	Impact Conclusion on Resource	
Buffalo River	1	0.02 acres	A stormwater tree trench is proposed within the FEMA defined floodplain for the Buffalo River. The project is located outside of the designated floodway and will have no impact to base flood elevations.	
Remediation Sites				
	6	0.12 acres	Installation of GI practices within the street ROW adjacent to parcels where a cleanup has been conducted has a low risk potential. Those sites where no further action is required at this time are assumed to pose no risk.	
DAC/PEJA				
	558	37.02 acres	All sites are intentionally located within identified DAC and/or PEJA areas. The project seeks to provide water quality and environmental improvements to areas that have historically suffered adverse effects from climate change and disproportionately experience environmental burdens. The projects will positively impact these communities.	

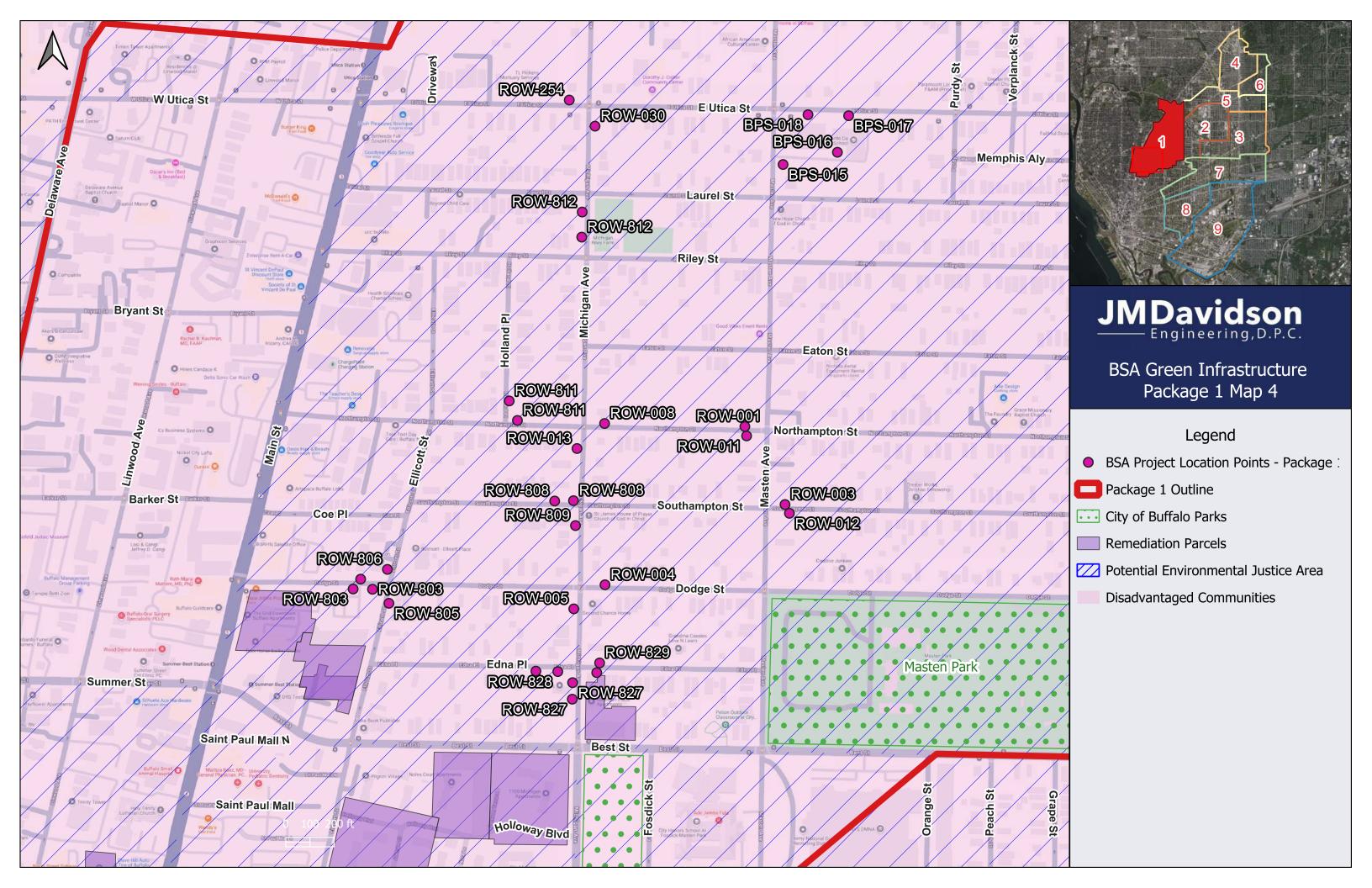
Appendix A: Package Maps

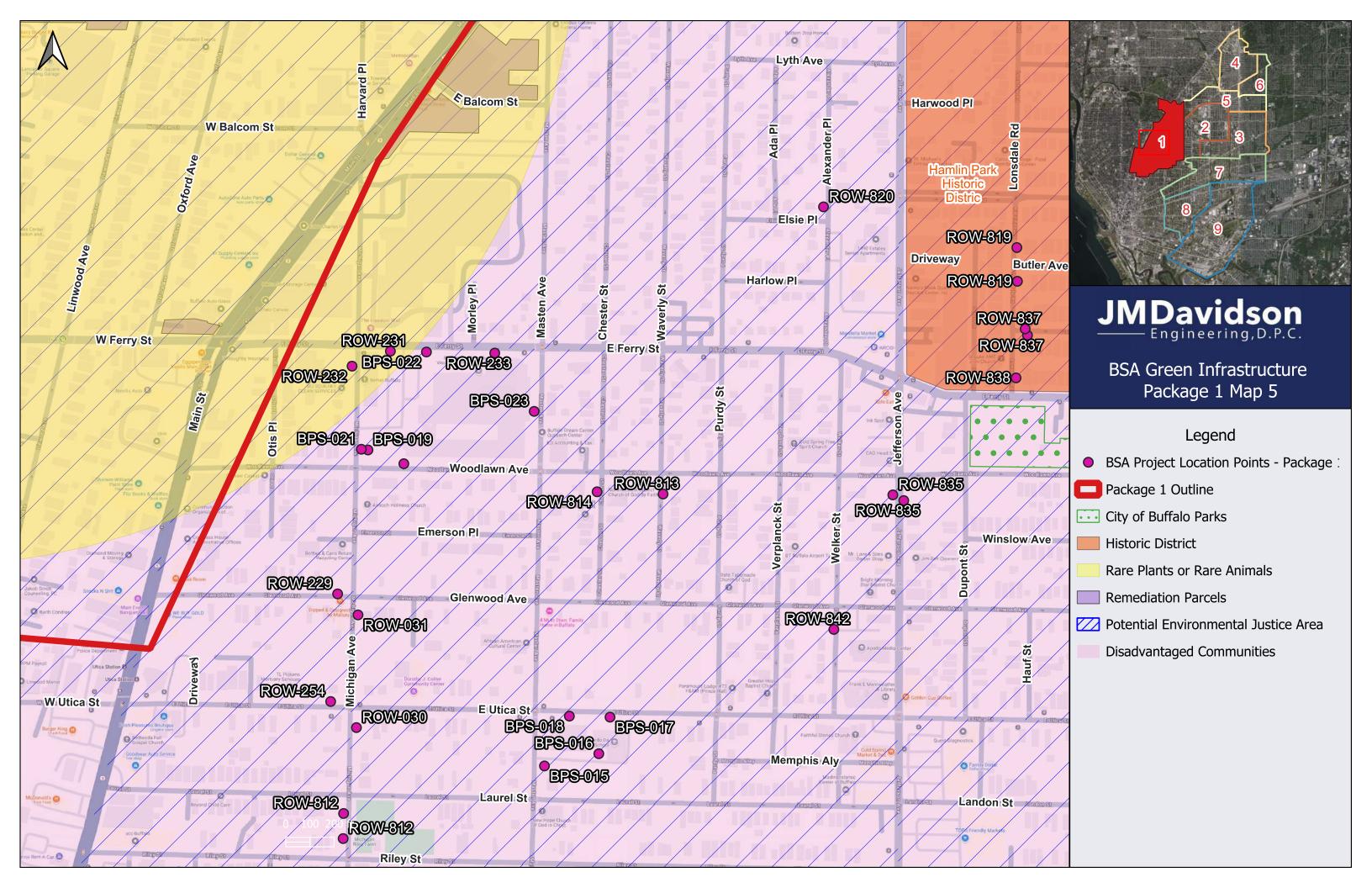




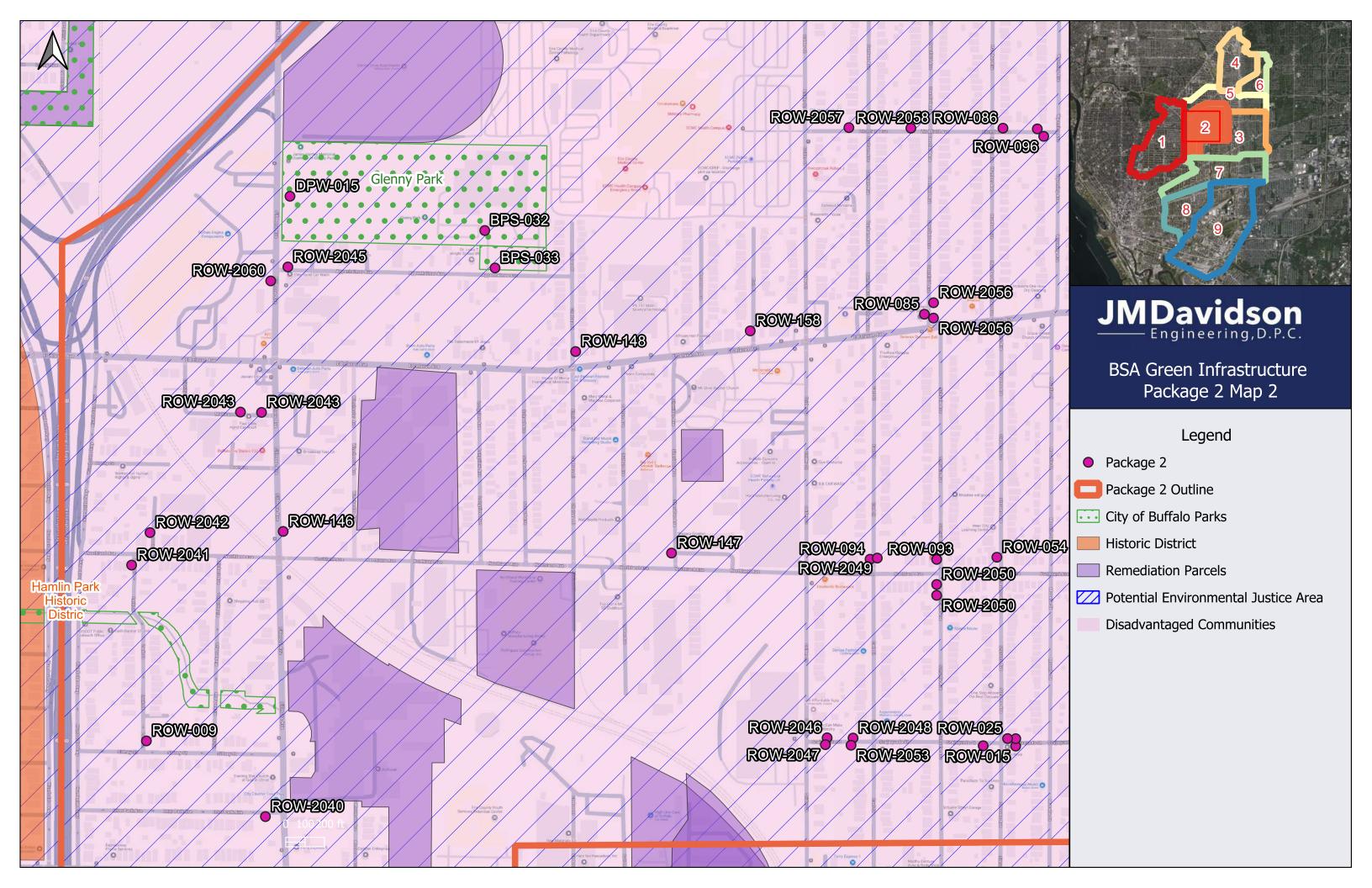


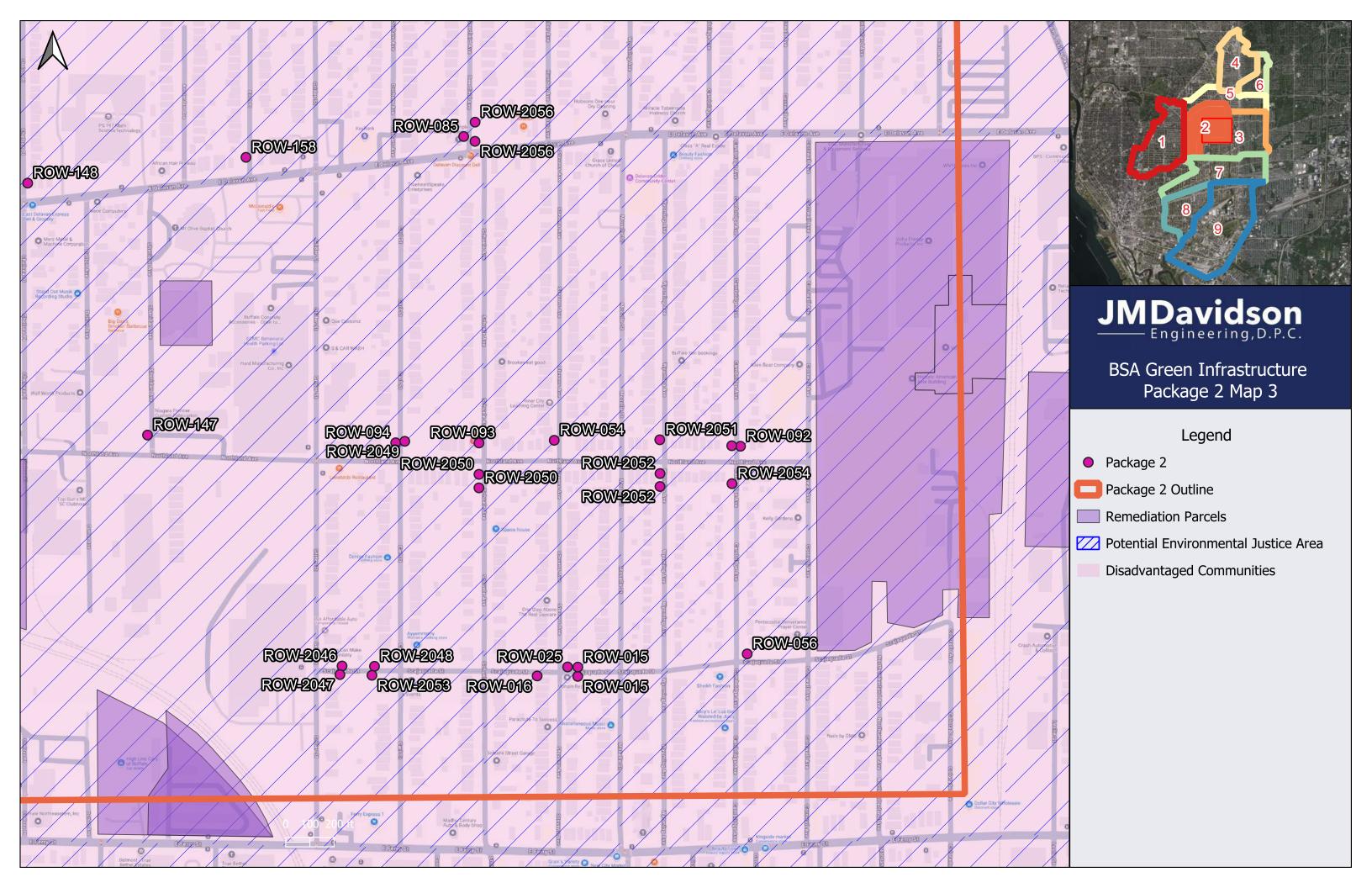


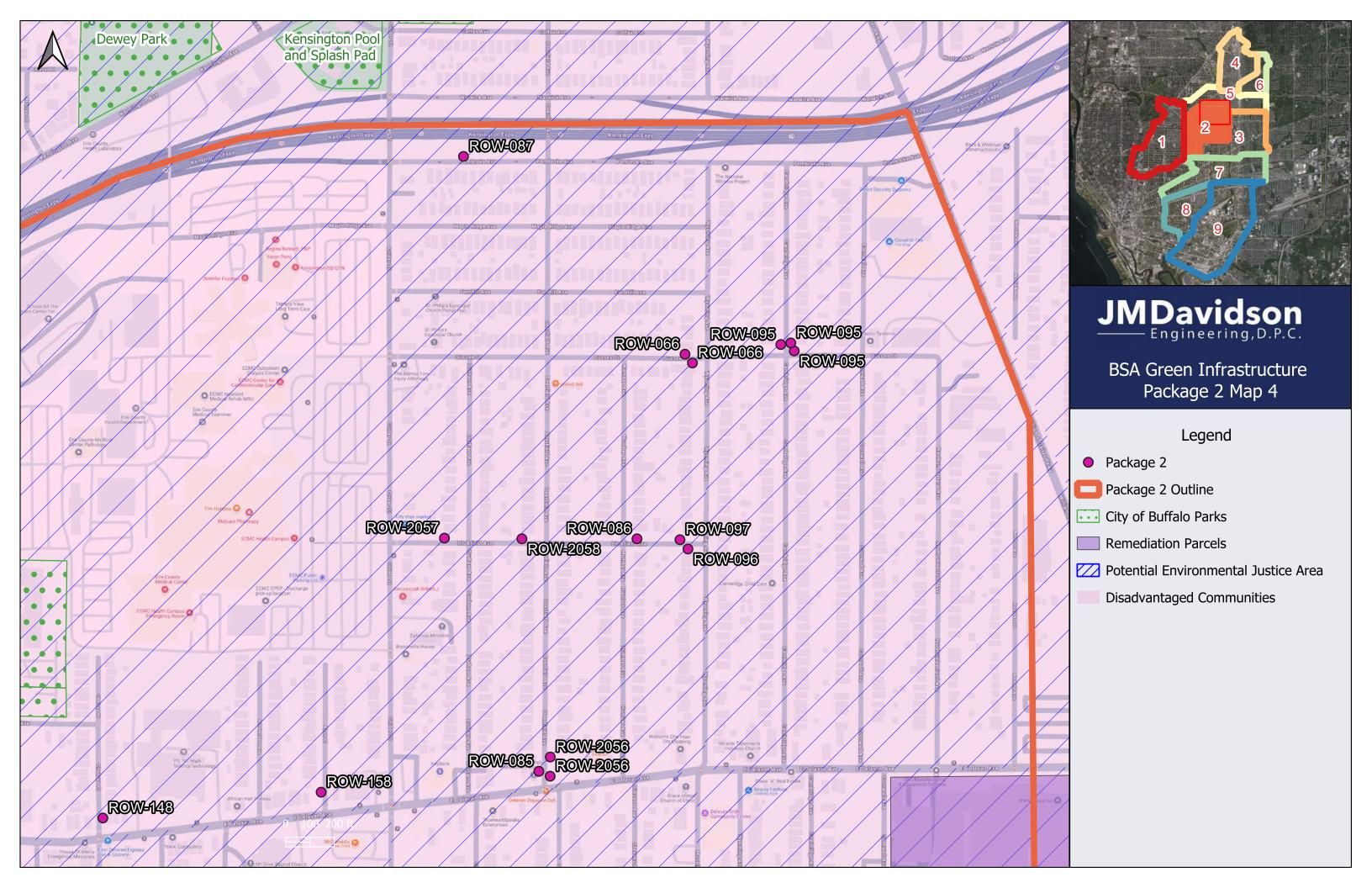










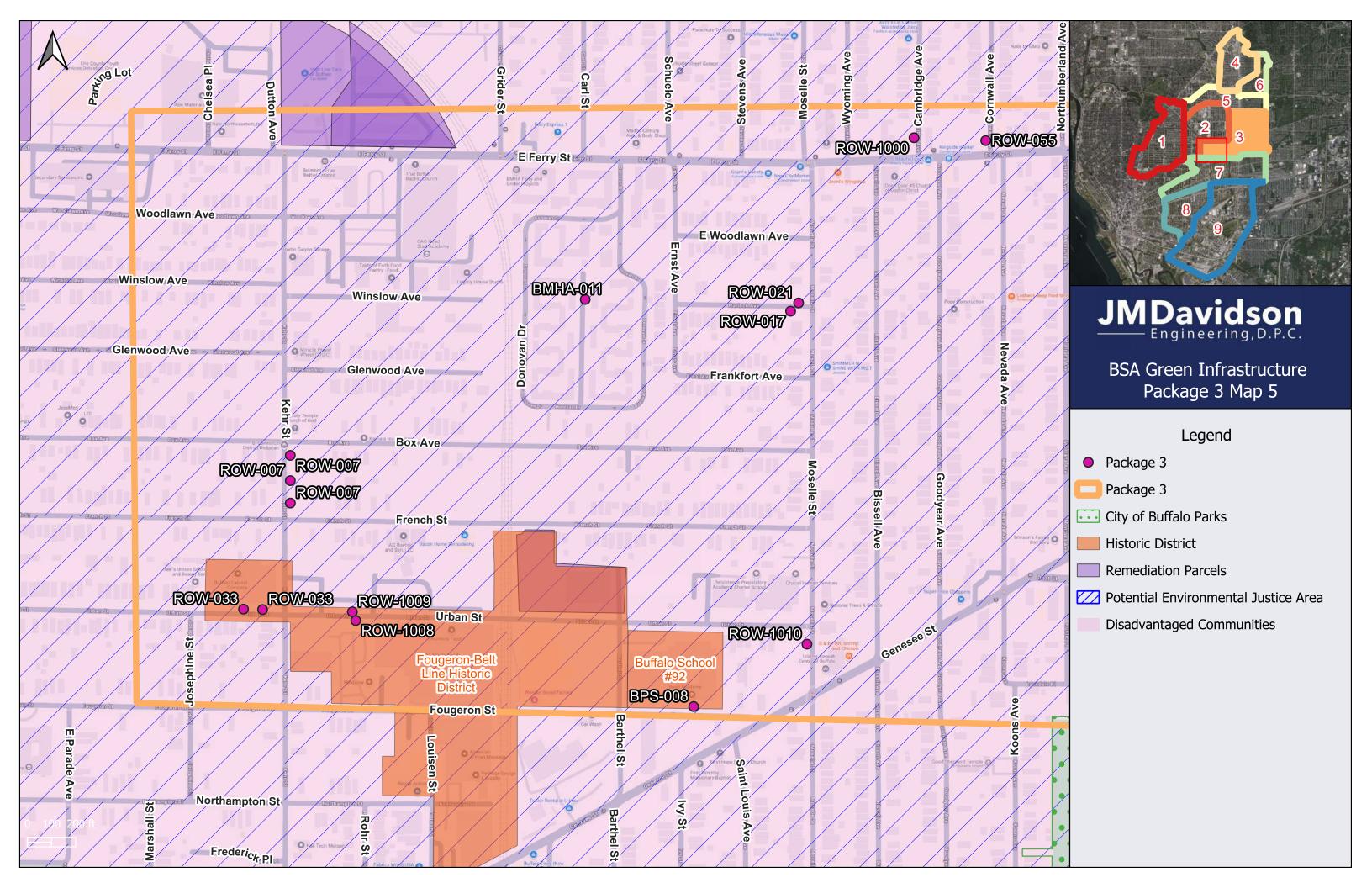


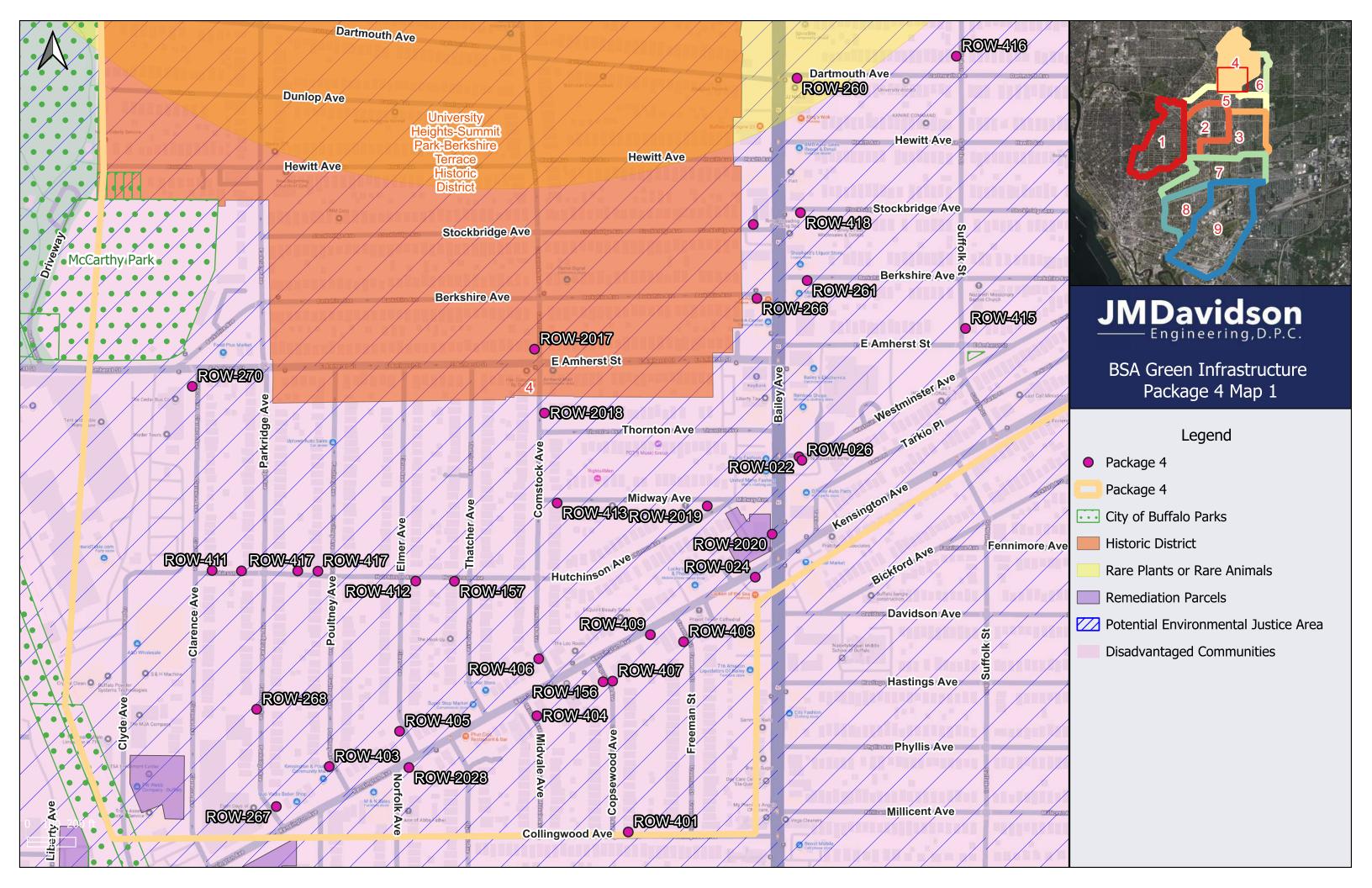


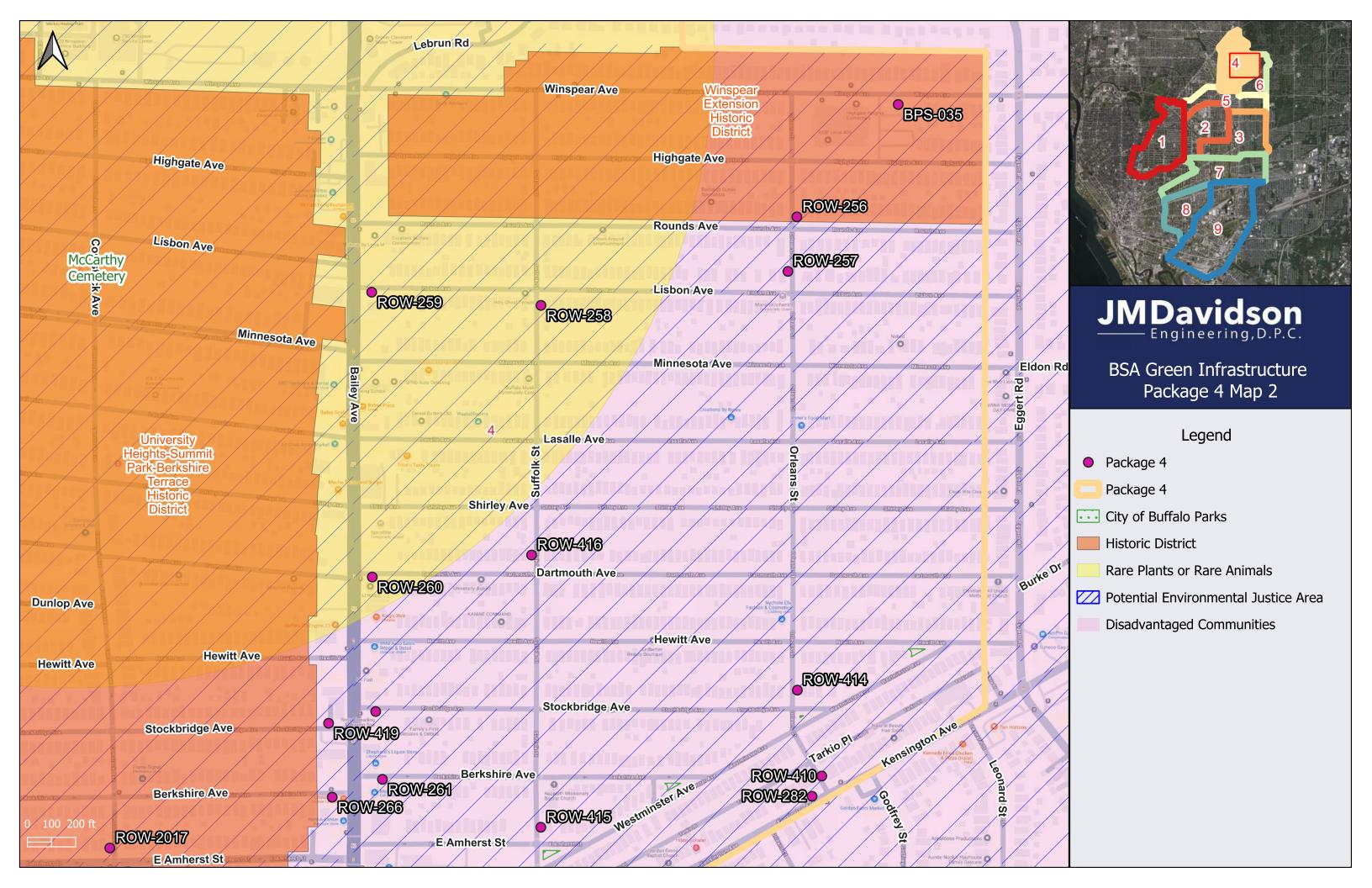


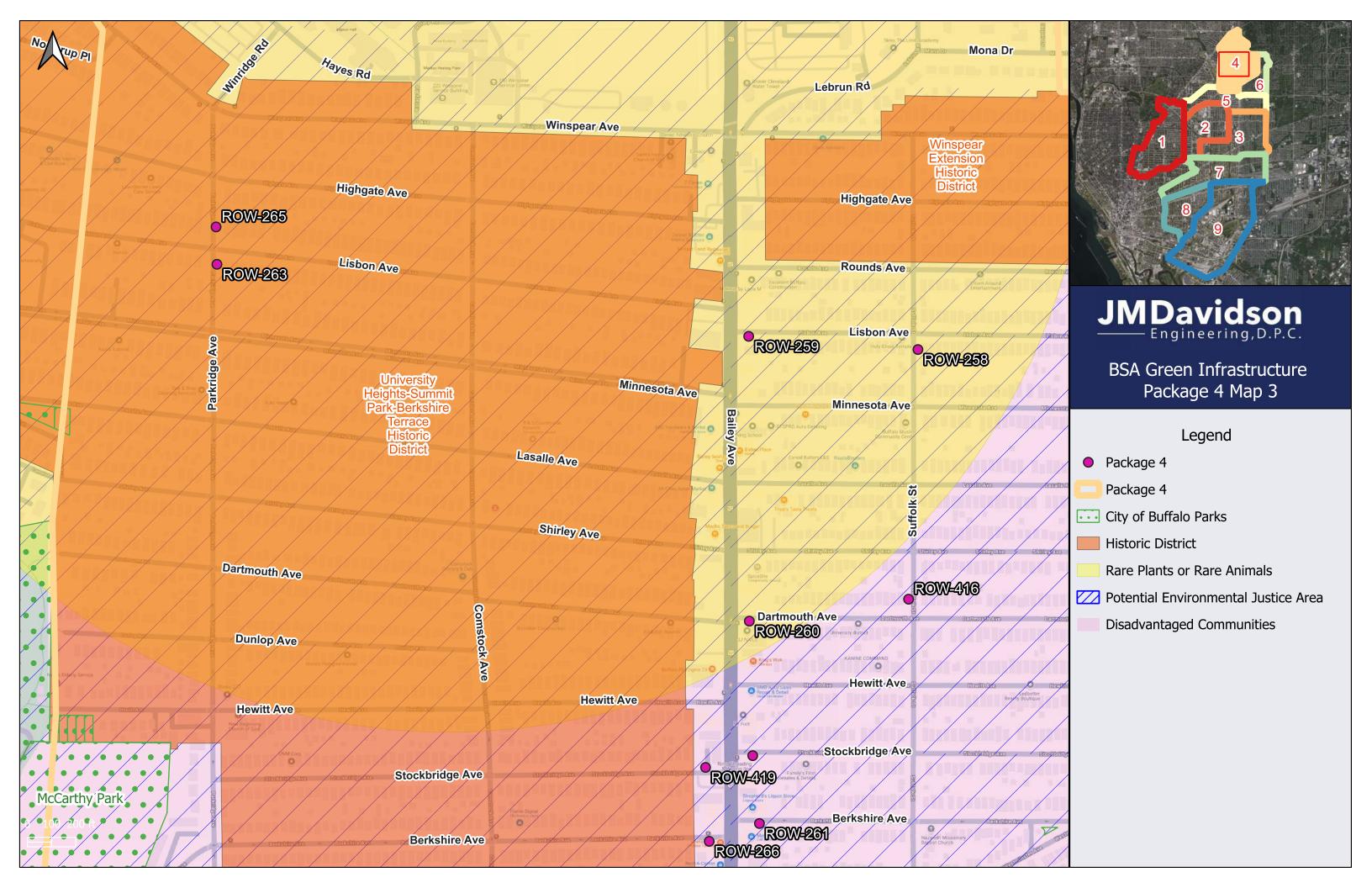






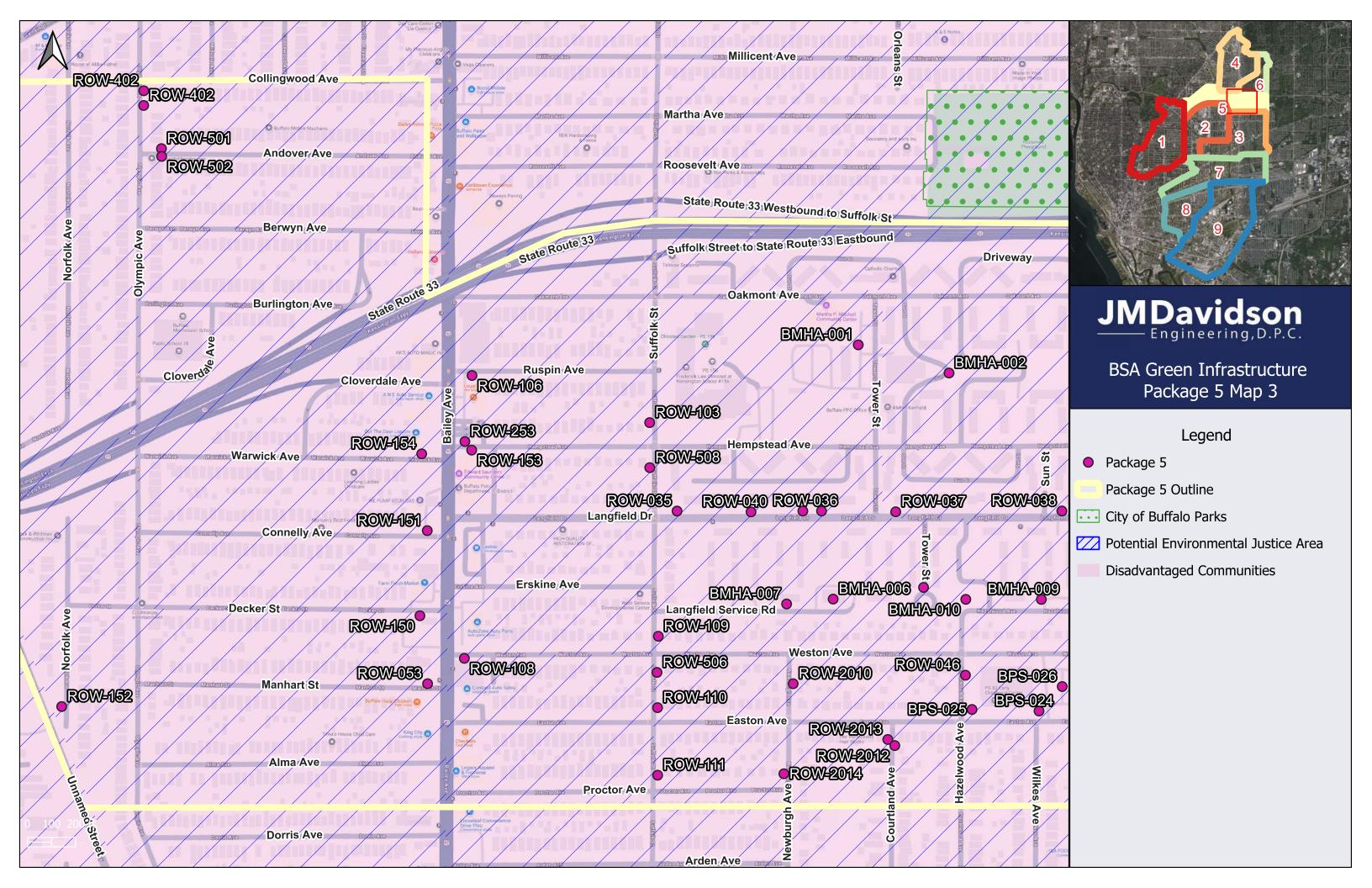


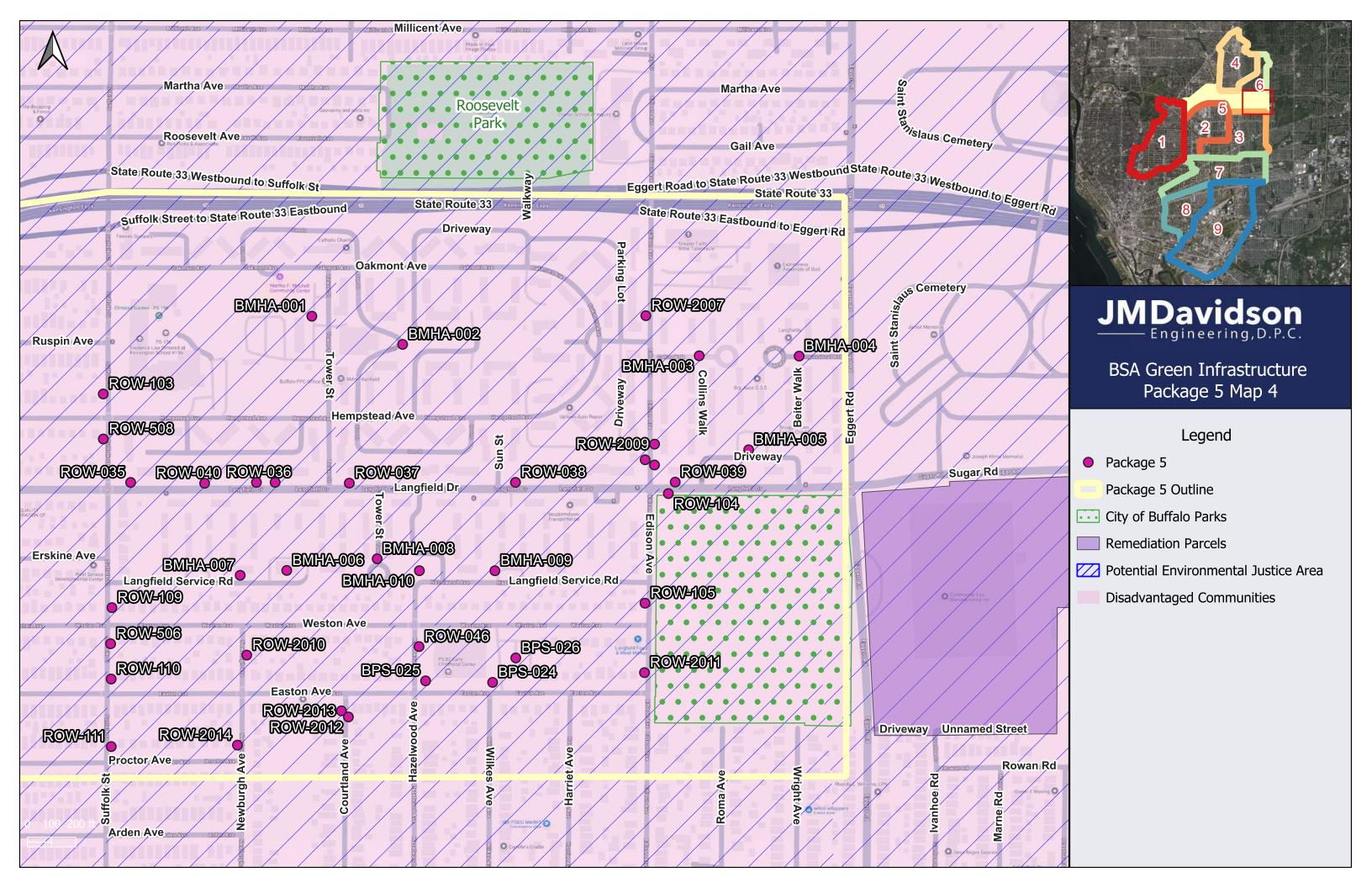


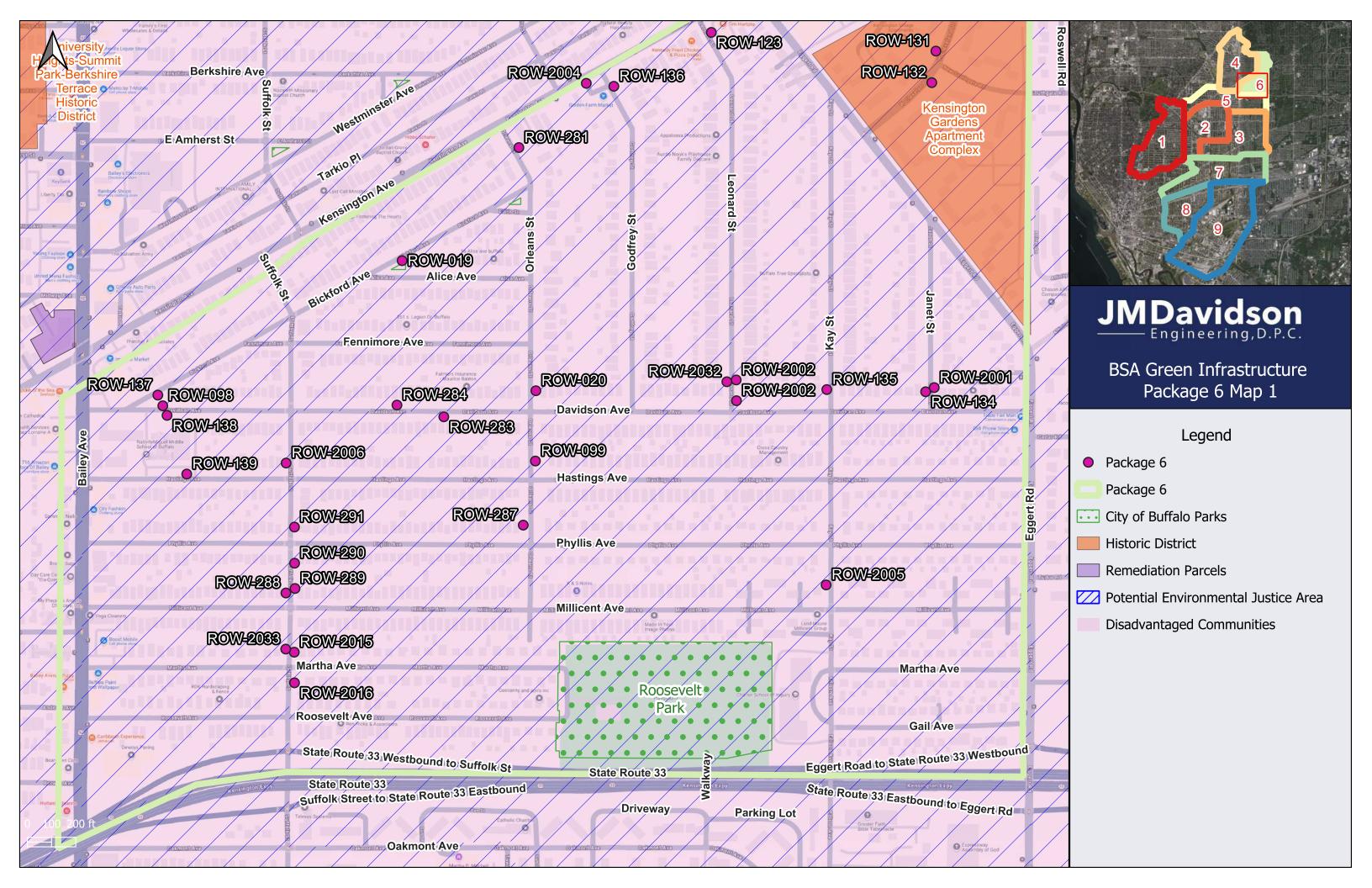




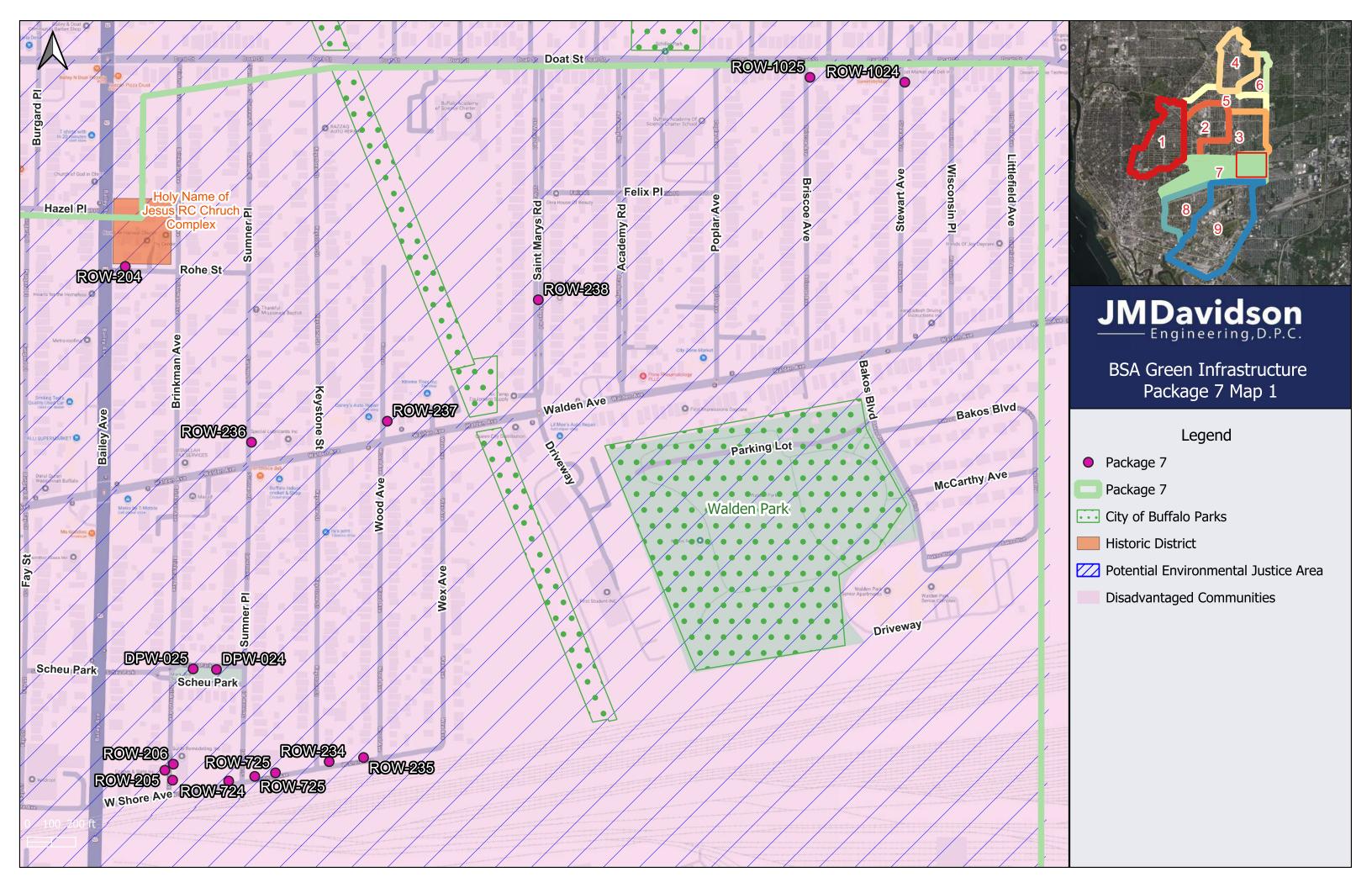




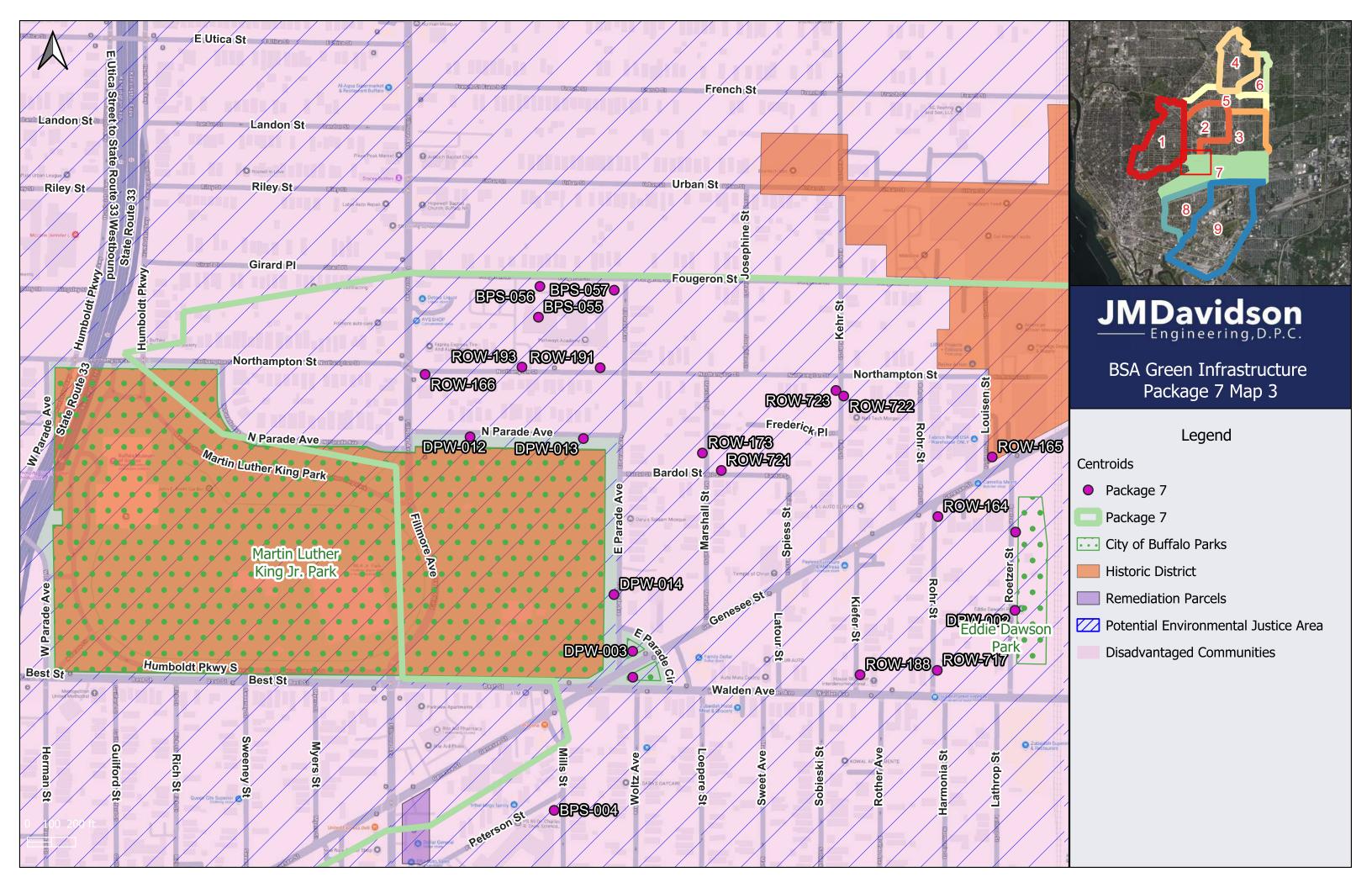


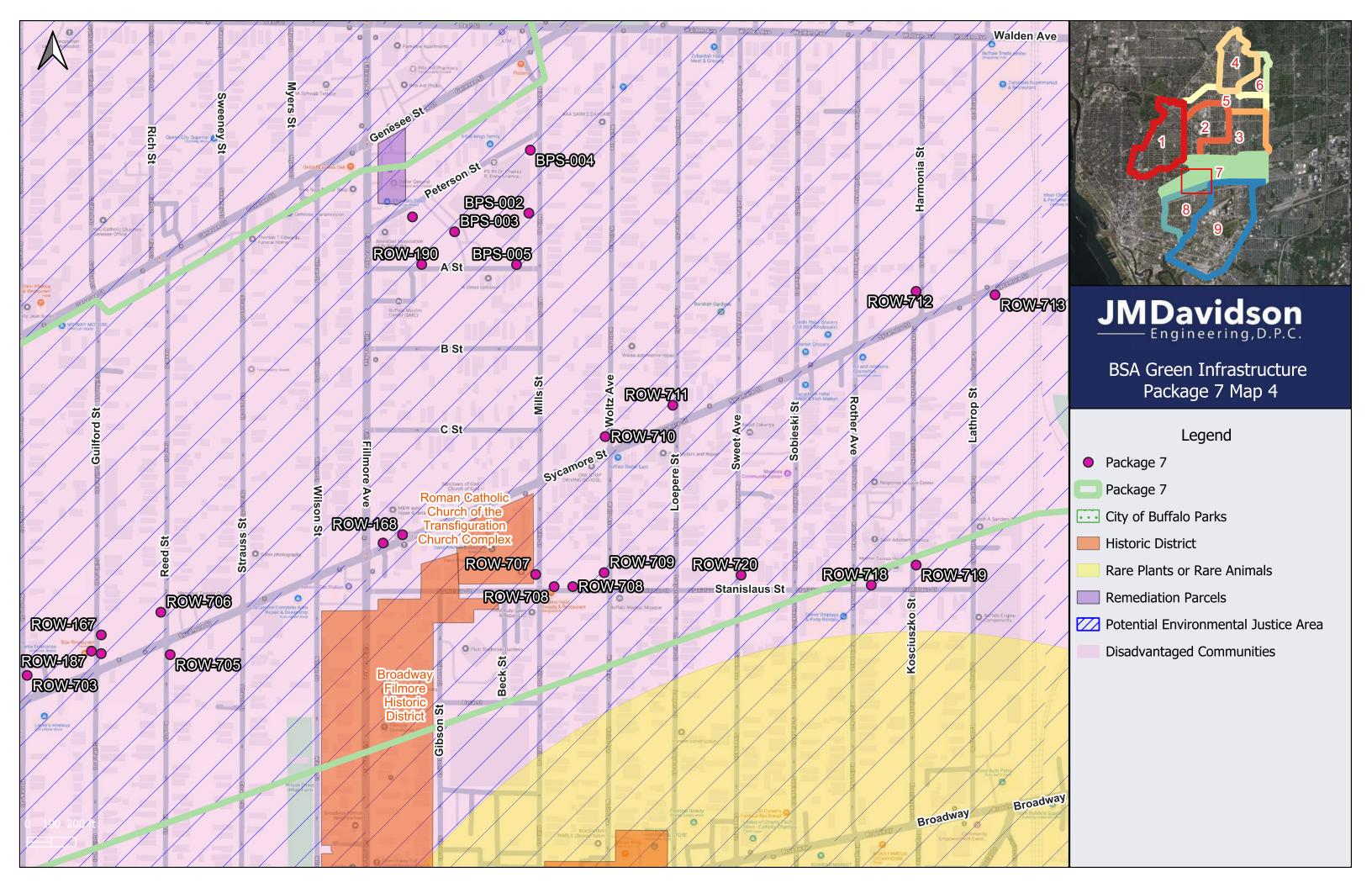


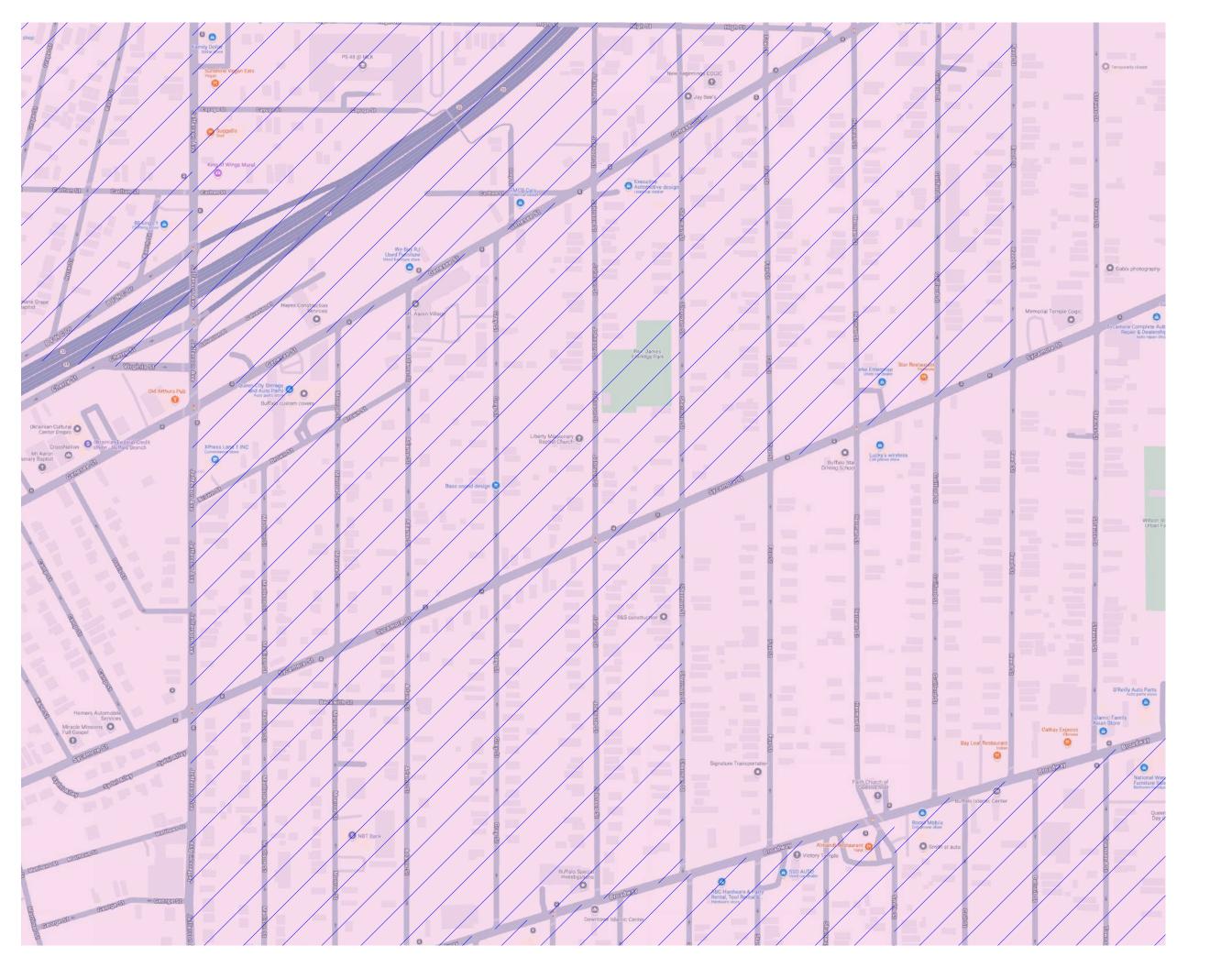


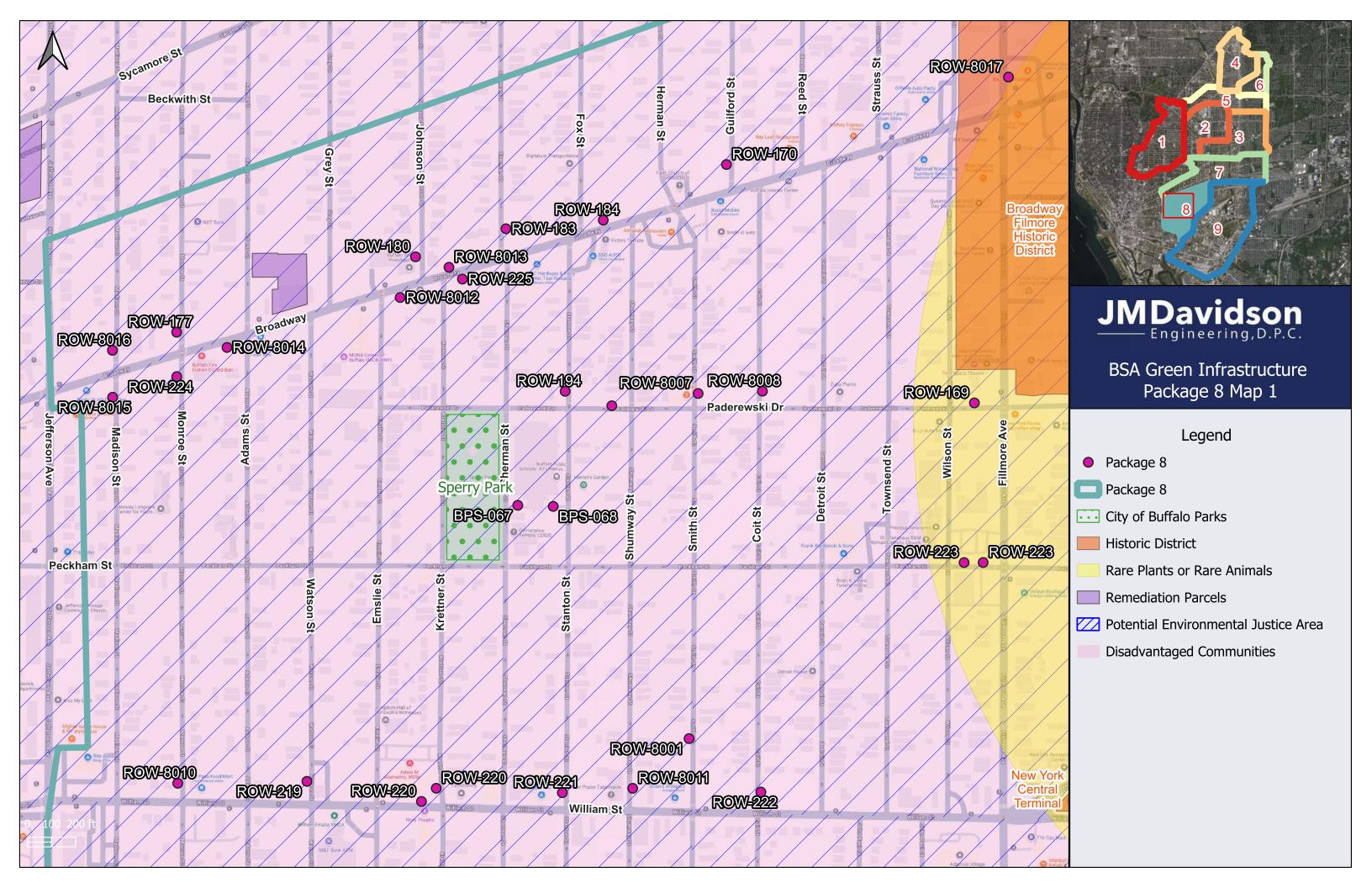


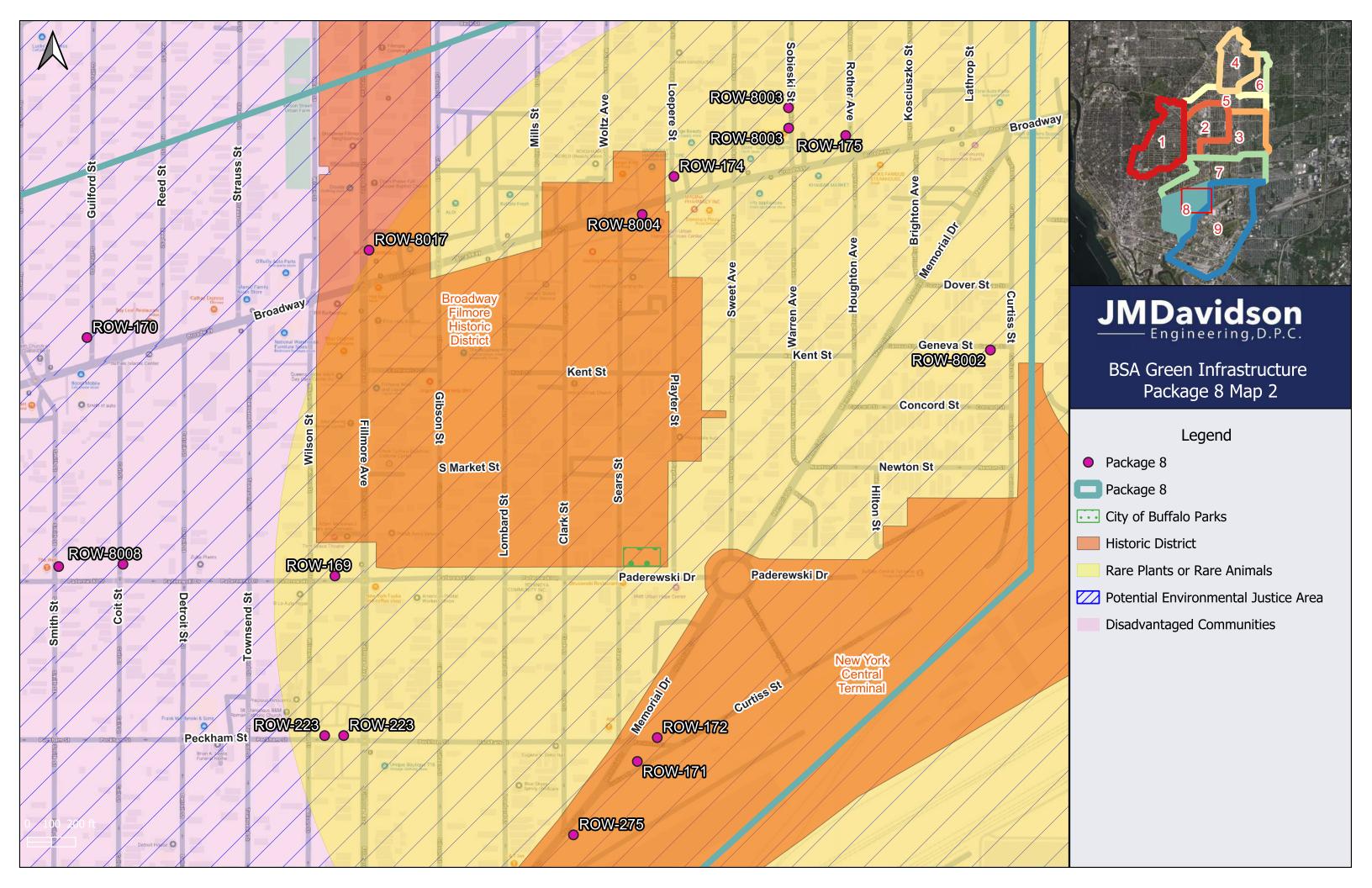


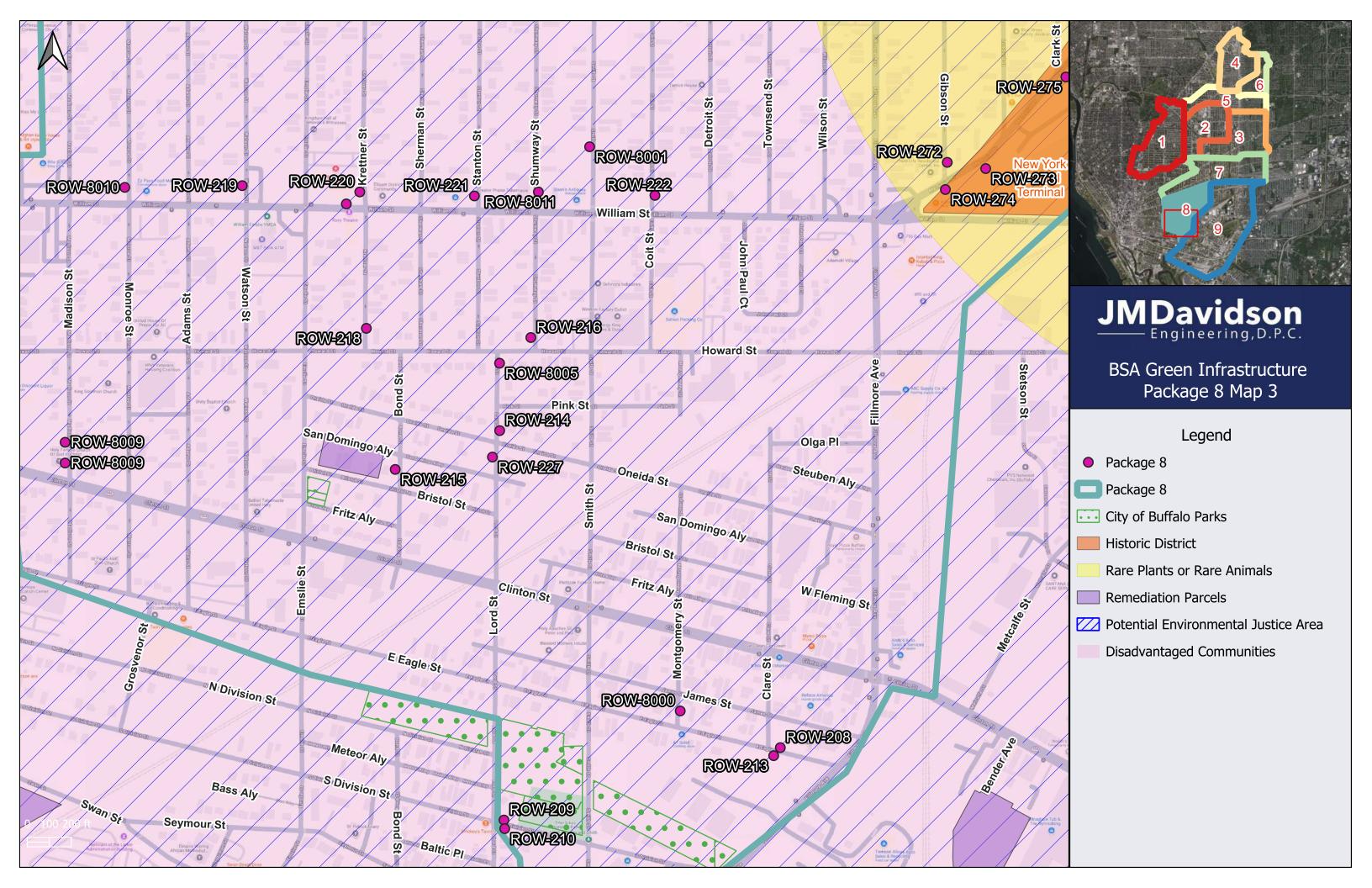


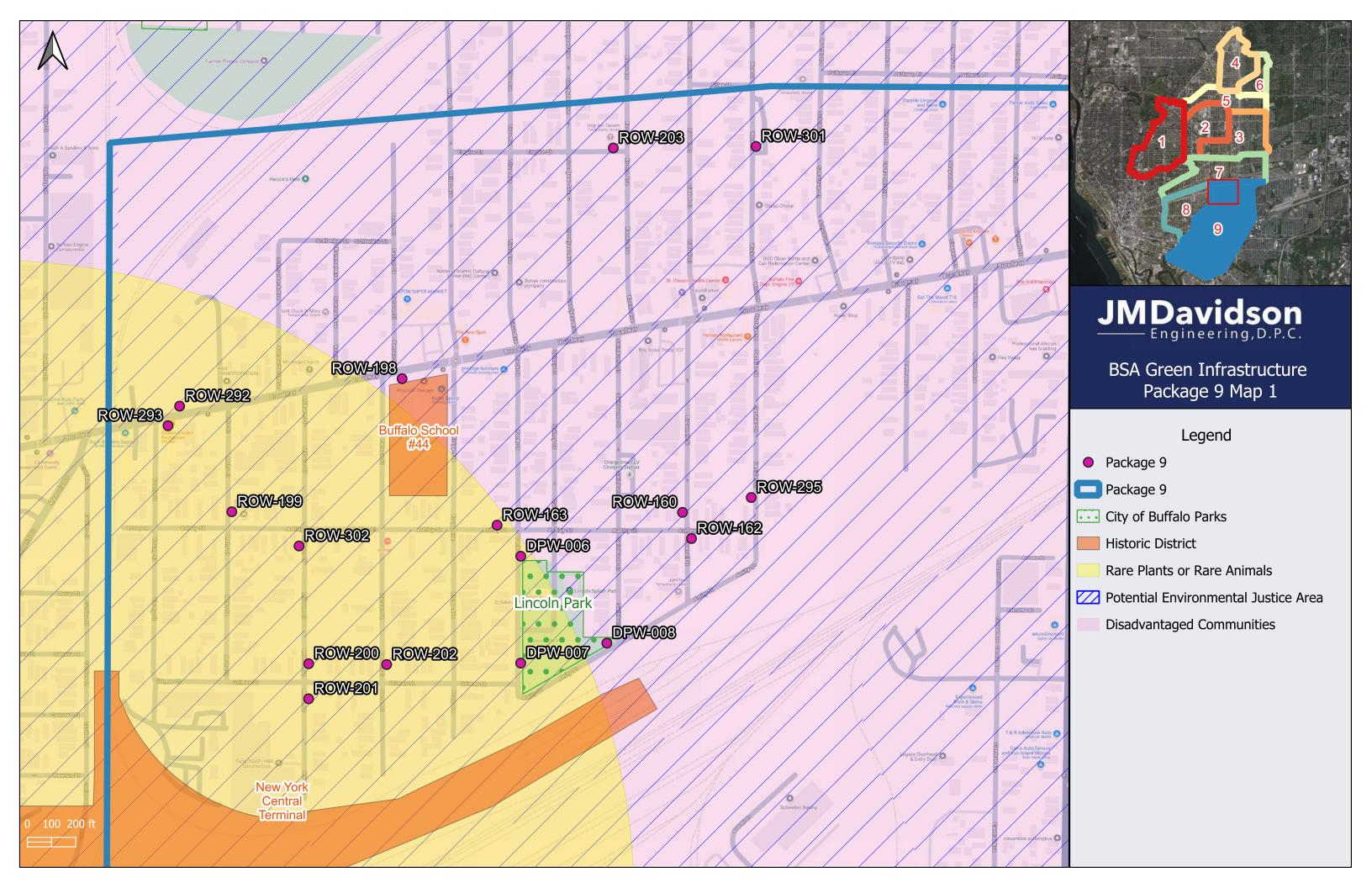


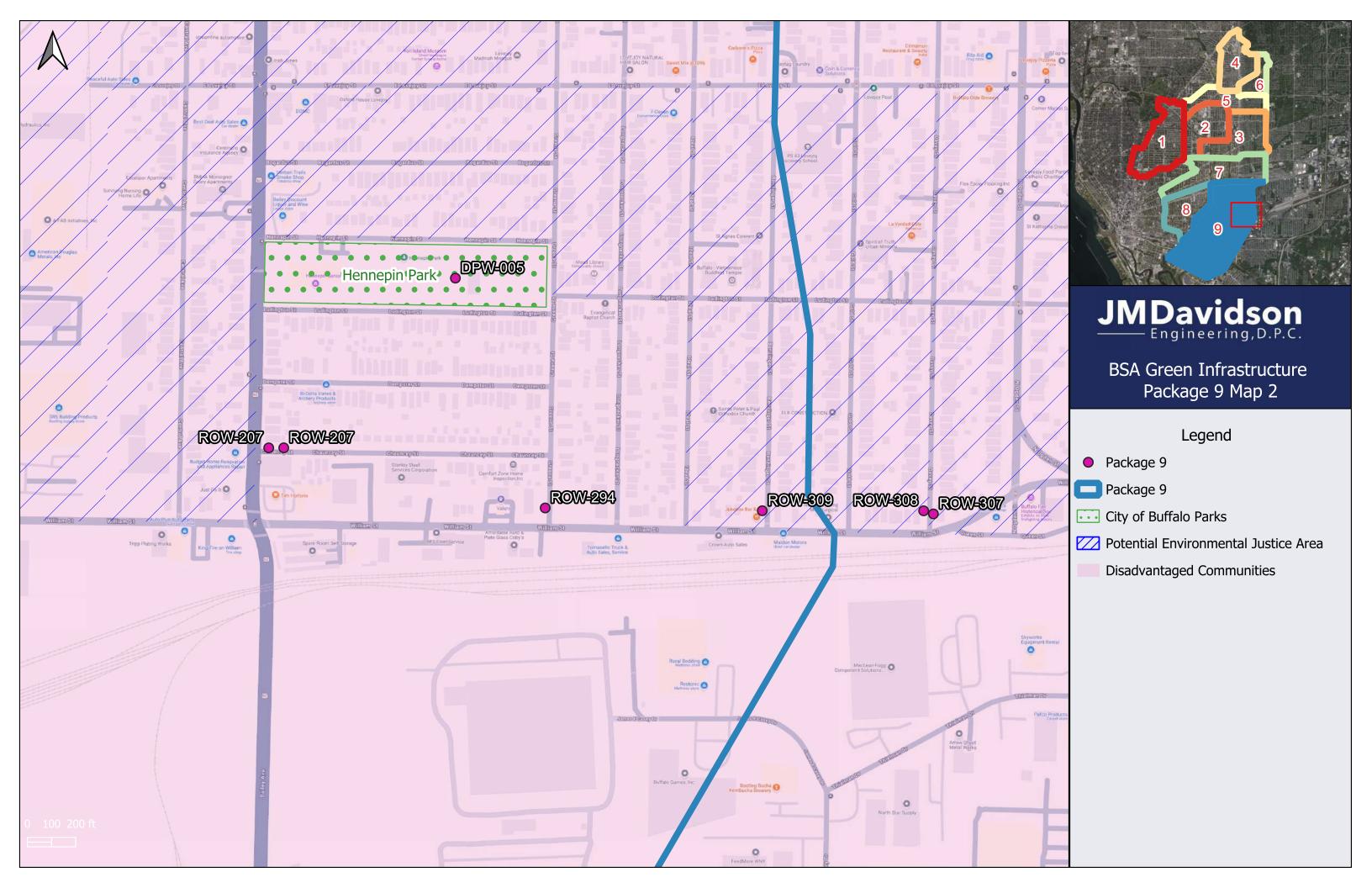






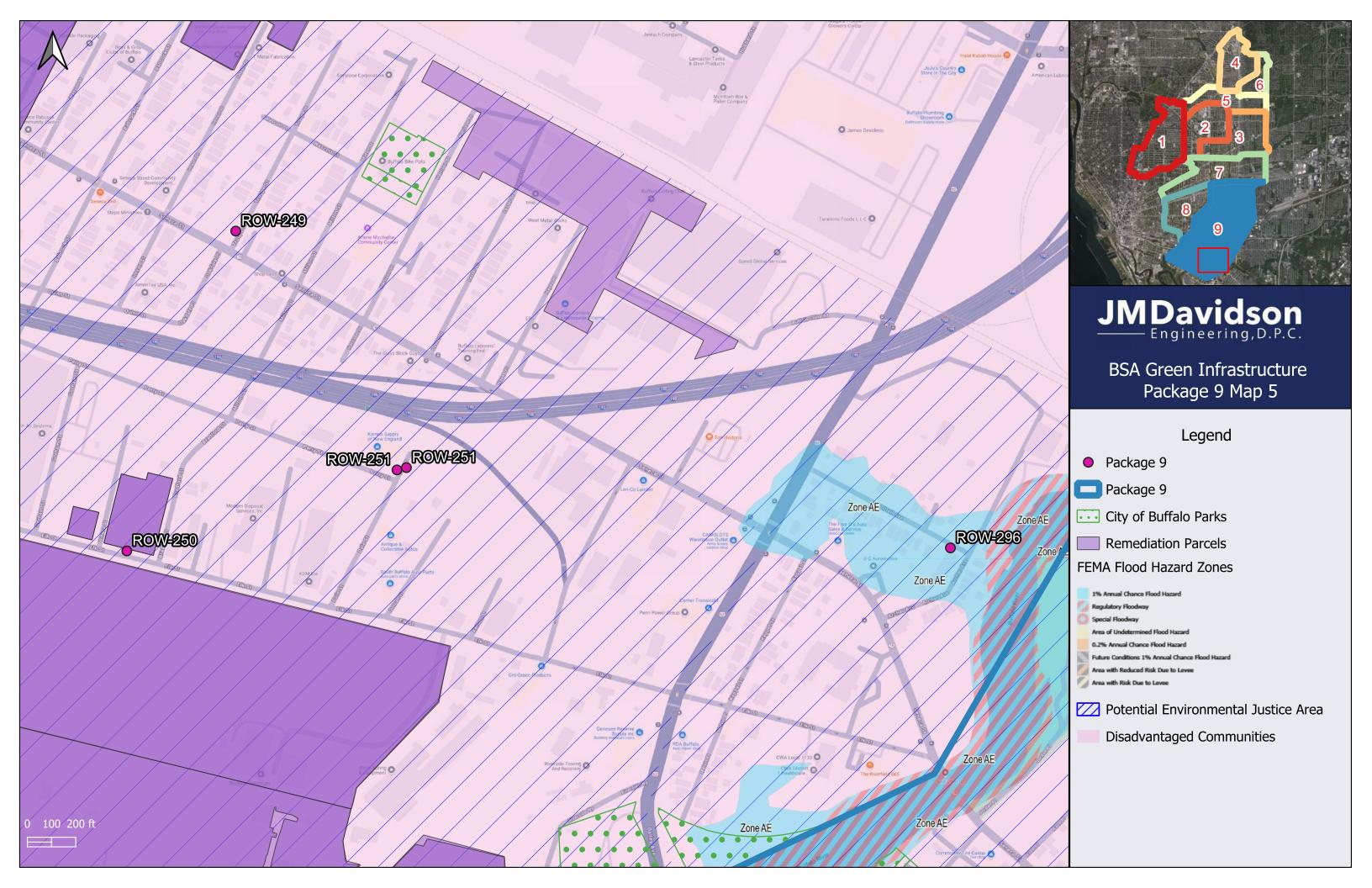






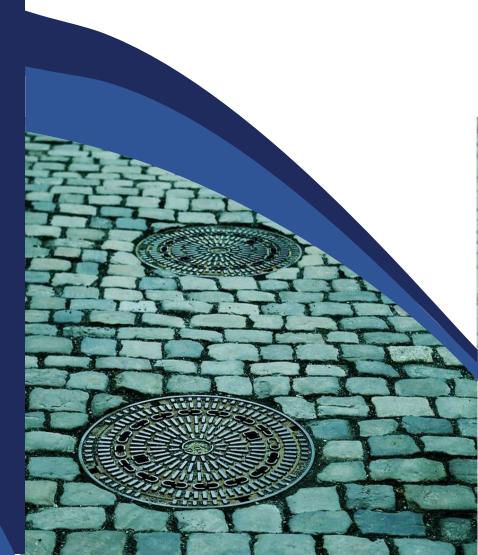








Appendix B: GI Practice Standard Detail





BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS

COVER SHEET

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GI-00 GI-24

GREEN INFRASTRUCTURE STANDARD DETAILS INDEX SHEET

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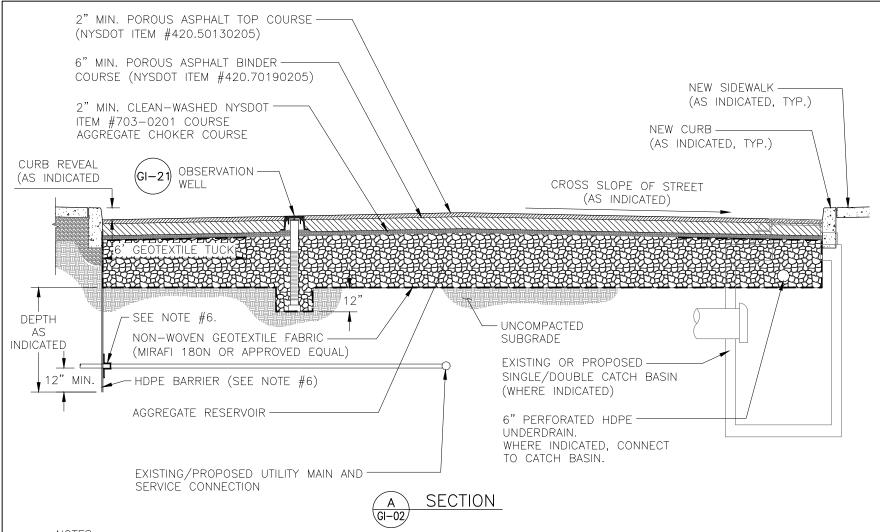
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GI-01

GI-01 GI-24

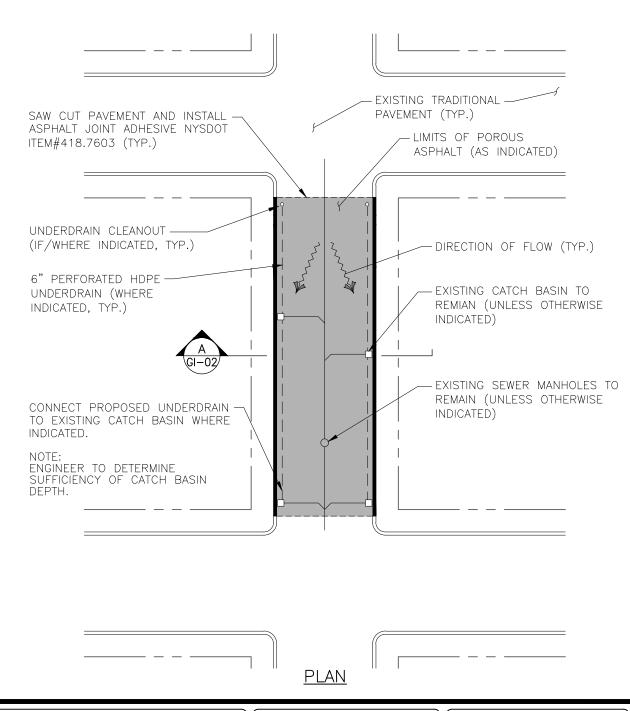
DRAWING NUMBER:



- 1. ALL CONSTRUCTION SHALL BE ADAPTED TO INCORPORATE SITE—SPECIFIC CONDITIONS. THE CONSTRUCTION SHALL PROVIDE ALLOWANCES AND MAINTAIN, AT A MINIMUM, STREET WIDTH, ON—STREET PARKING, DRAINAGE, BICYCLE LANES, BUS ROUTES, ADA ACCESSIBILITY, PROXIMITY TO ADJACENT BUILDINGS AND STRUCTURES, AND VEHICULAR TURNING MANEUVERS.
- 2. WATERPROOFING MEASURES CONFIRMING TO NYSDOT REQUIREMENTS SHALL BE PROVIDED WHEN DETERMINED REQUIRED BY THE ENGINEER.
- 3. PERVIOUS DRAINAGE AREAS SHALL BE DIRECTED AROUND POROUS PAVEMENT SURFACE.
- 4. A MIX DESIGN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- 5. MINIMUM UTILITY SETBACKS AND PROTECTION MEASURES SHALL CONFORM TO CURRENT BSA ASSET PROTECTION STANDARDS AND OTHER UTILITY PROVIDER REQUIREMENTS.
- 6. AN HDPE BARRIER SHALL BE PROVIDED WHERE INDICATED, TO PREVENT INFILTRATION INTO BASEMENTS OF ADJACENT BUILDINGS WHERE DETERMINED REQUIRED BY THE ENGINEER. UTILITY OR OTHER PENETRATIONS THROUGH THE LINE SHALL REQUIRE A WATERTIGHT BOOT SEAL. SEE DRAWING GI-20.
- 7. ALL EDGES BETWEEN NEW AND EXISTING ASPHALT PAVEMENT AND JOINTS FOR UTILITY STRUCTURES SHALL BE SEALED WITH HOT ASPHALT CEMENT CONFORMING TO NYSDOT STANDARD SPECIFICATIONS FOR NYSDOT ITEM#418.7603.
- 8. THE CONTRACTOR SHALL NOT COMPACT THE SUBGRADE SOIL PRIOR TO PLACEMENT OF CLEAN WASHED AGGREGATE RESERVOIR.

MAINTENANCE DURING CONSTRUCTION:

- 1. KEEP TRAFFIC OFF PAVEMENT FOR A MINIMUM OF 24 HOURS AFTER ITS PLACED.
- 2. DIVERT STORMWATER FROM DISTURBED AREAS AND THE POROUS PAVEMENT UNTIL THE AREAS ARE STABILIZED.
- 3. DO NOT USE SAND OR SALT FOR ICE TREATMENT.
- 4. PERFORM VACUUM SWEEPING AT A MINIMUM WEEKLY OR AS DETERMINED NECESSARY BY THE ENGINEER.



BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS POROUS ASPHALT PAVING

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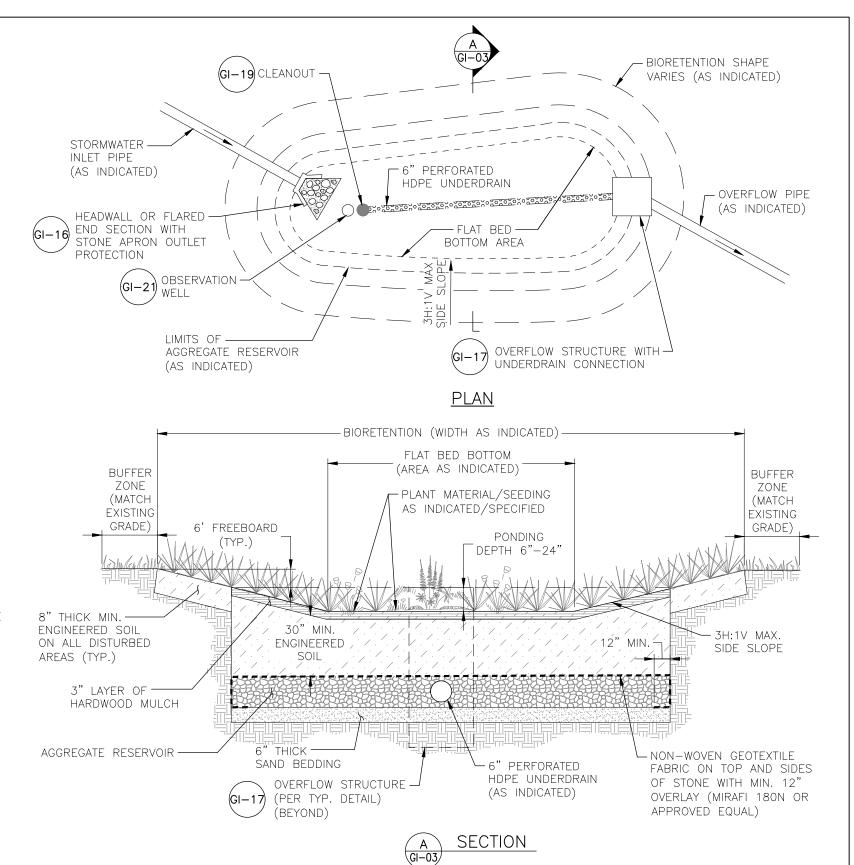
GI-02

GI-02 GI-24

- 1. UNDERDRAINS SHALL BE AT LEAST SIX (6) INCHES IN DIAMETER AND CONSTRUCTED OF HIGH—DENSITY POLYETHYLENE PIPING WITH A CORRUGATED EXTERIOR AND SMOOTH INNER WALL. UNDERDRAIN PIPING WITHIN THE STONE AGGREGATE RESERVOIR SHALL BE FULLY—PERFORATED PIPING MEETING THE AASHTO MATERIALS SPECIFICATIONS M294 AND M252 CLASS II.
- 2. THE ENGINEER SHALL BE ON SITE DURING THE EXCAVATION OF BIORETENTION TO CONFIRM THAT THE SUBSURFACE CONDITIONS ARE SUITABLE
- 3. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS NOTIFICATION TO BUFFALO SEWER AUTHORITY AND DESIGN ENGINEER PRIOR TO BIORETENTION EXCAVATION.
- 4. ENGINEERED SOIL MEDIA SHALL BE AS SPECIFIED.
- 5. COMPACTION SHALL NOT OCCUR IN THE BIORETENTION AREAS PRIOR TO CONSTRUCTION. SCARIFICATION IS REQUIRED IN THE EVENT COMPACTION TAKES PLACE.
- 6. DO NOT PLACE THE BIORETENTION SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED. SIDE SLOPES ARE TO BE STABILIZED WITHIN THREE WORKING DAY UPON COMPLETION OF FINAL GRADE.
- 7. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF WATER FROM EXCAVATIONS) TO THE BIORETENTION AREA DURING ANY STAGE OF CONSTRUCTION. PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE SYSTEM.
- 8. PROVIDE SEED MIXTURE COMPRISED OF THE FOLLOWING (WHERE INDICATED):
- A. "NEW ENGLAND NATIVE WARM SEASON GRASS MIX" BY NEW ENGLAND WETLAND PLANTS, INC. RATE: 23 LBS/AC; OR "RAIN GARDEN MIX ERNMIX 180" BY ERNST CONSERVATION SEEDS. RATE 20 LBS/AC.
- B. SEED ALSO WITH ONE OF THE FOLLOWING COVER CROPS:
- OATS (1 JAN TO 31 JUL; 30 LBS/AC)
- JAPANESE MILLET (1 MAY TO 31 AUG; 10 LBS/AC)
- GRAIN RYE (1 AUG TO 31 DEC; 30 LBS/AC)

MAINTENANCE DURING CONSTRUCTION:

- 1. SYSTEMS SHALL BE INSPECTED AT LEAST ONCE WEEKLY, AND FOLLOWING ANY RAINFALL EXCEEDING 0.20 INCHES IN A 24—HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS DETERMINED REQUIRED BY THE ENGINEER. PRETREATMENT MEASURES SHALL BE INSPECTED AT LEAST TWICE ANNUALLY, AND CLEANED OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY AND AS DIRECTED BY THE ENGINEER.
- 2. AT LEAST ONCE MONTHLY THE SYSTEM SHALL BE INSPECTED FOR DRAWDOWN TIME. IF THE BIORETENTION DOES NOT DRAIN WITHIN 72—HOURS FOLLOWING A RAINFALL EVENT, THEN THE ENGINEER SHALL ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION OR INFILTRATION FUNCTION (AS APPLICABLE), INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDIA.
- 3. VEGETATION SHALL BE INSPECTED AT LEAST WEEKLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING, PRUNING, REMOVAL, AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES.



BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS BIORETENTION BASIN

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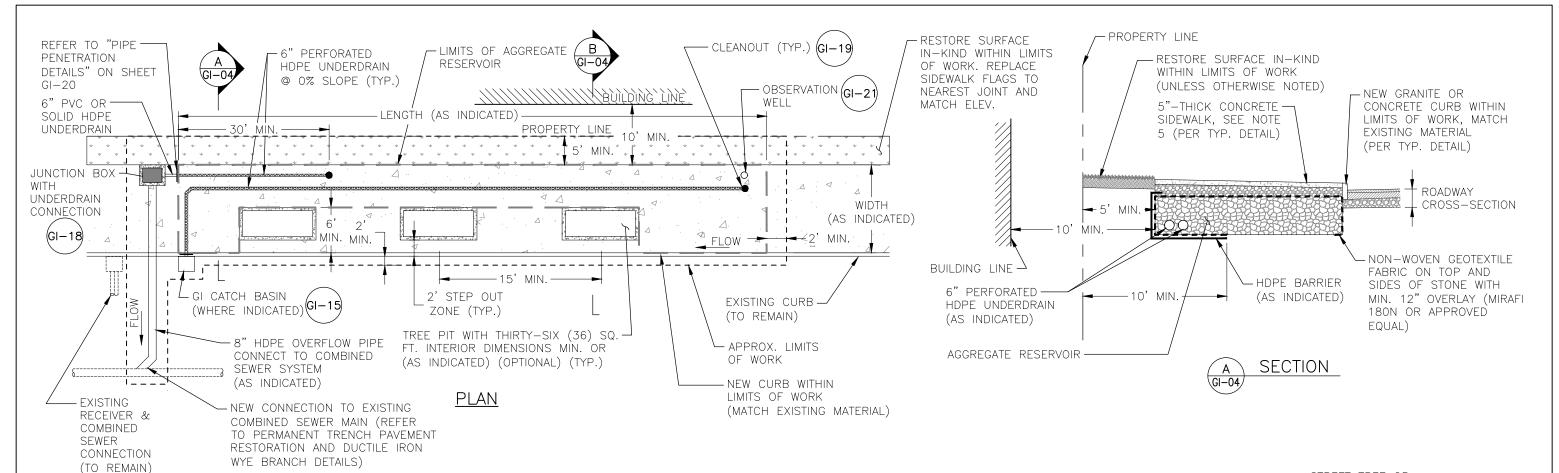
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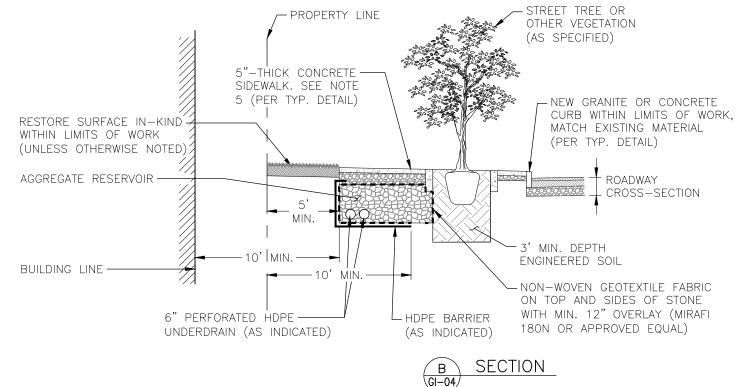
GI-03 GI-24



- 1. ALL CONSTRUCTION SHALL BE ADAPTED TO ADDRESS SITE—SPECIFIC CONDITIONS. THE CONTRACTOR SHALL MAINTAIN, AT A MINIMUM, STREET WIDTH, ON—STREET PARKING, DRAINAGE, BICYCLE LANES, BUS ROUTES, ADA ACCESSIBILITY, PROXIMITY TO ADJACENT BUILDINGS AND STRUCTURES, AND VEHICULAR TURNING MANEUVERS.
- 2. WATERPROOFING MEASURES CONFIRMING TO NYSDOT REQUIREMENTS SHALL BE PROVIDED WHEN DETERMINED BY THE ENGINEER.
- 3. ALL TREE PITS SHALL BE SURROUNDED FLUSH CURBING UNLESS OTHERWISE SPECIFIED. ALL EXPOSED CONCRETE EDGES SHALL BE BEVELED. TREE GRATES SHALL NOT BE USED AROUND TREE PITS.
- 4. THE MINIMUM INTERIOR TREE PIT DIMENSION IS THIRTY SIX (36) SQUARE FEET. LARGER TREE PITS SHALL BE PROVIDED WHERE SPECIFIED IN THE CONTRACT DOCUMENTS.
- 5. EIGHT (8) INCH THICK REINFORCED CONCRETE SIDEWALK SHALL BE USED AT ALL DRIVEWAY CROSSINGS.
- 6. TREE SPECIES, LOCATION, AND SIZE SHALL BE COORDINATED WITH THE CITY OF BUFFALO PUBLIC WORKS DEPARTMENT.

MAINTENANCE DURING CONSTRUCTION:

- 1. WATER TREES WEEKLY WITH A SLOW RELEASE WATERING BAG SYSTEM, TREE GATOR OR APPROVED EQUAL
- 2. DIVERT STORMWATER FROM DISTURBED AREAS UNTIL THE AREAS ARE STABILIZED.
- 3. DO NOT USE SAND OR SALT FOR ICE TREATMENT.
- 4. REMOVE DEBRIS AND SEDIMENT FROM THE TREE PLANTER AREAS WEEKLY OR AS DIRECTED BY THE ENGINEER.



BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS STORMWATER TREE TRENCH

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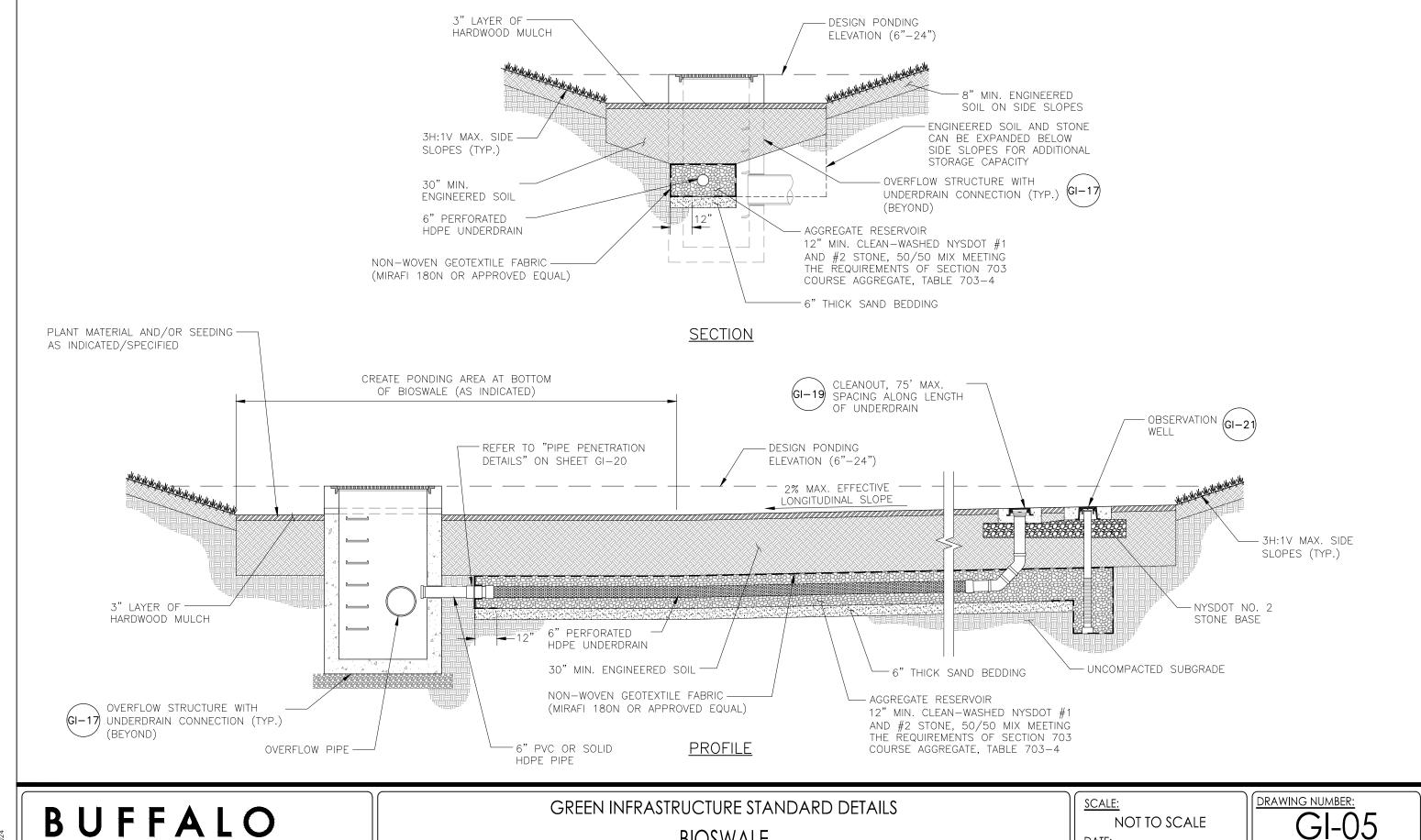
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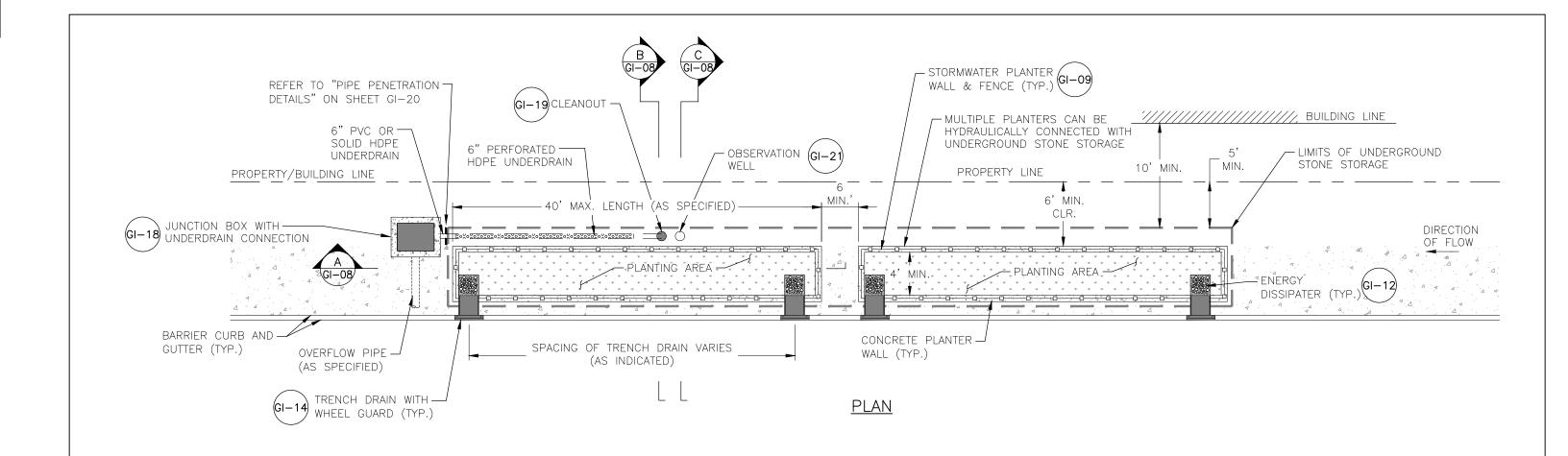
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- 1. ALL CONSTRUCTION SHALL BE ADAPTED TO ADDRESS SITE—SPECIFIC CONDITIONS. THE CONTRACTOR SHALL MAINTAIN, AT A MINIMUM, STREET WIDTH, DRAINAGE, BICYCLE LANES, BUS ROUTES, ADA ACCESSIBILITY, AND VEHICLE TURNING MANUEVERS.
- 2. WATERPROOFING MEASURES CONFORMING TO NYSDOT REQUIREMENTS SHALL BE PROVIDED WHEN DETERMINED BY THE ENGINEER.
- 3. CURB CUT SPACING SHALL BE DESIGNED TO CONVEY THE INTENDED DESIGN STORM AND SHALL CONSIDER STREET SLOPE AND CONTIBUTING DRAINAGE AREA.
- 4. THE PLANTER WALL DESIGN AND CONFIGURATION SHALL BE DESIGNED IN COORDINATION WITH STRUCTURAL AND GEOTECHNICAL ENGINEERING INPUT. THE DESIGN DRAWINGS SHALL INCLUDE PLANTER WALL DIMENSIONS, REINFORCEMENT, AND STRUCTURAL FOOTINGS.
- 5. ALL EXPOSED CONCRETE EDGES OF PLANTER WALL SHALL BE BEVELED.
- 6. THE LANDSCAPE DESIGN SHALL CONSIDER VEHICULAR SIGHT DISTANCES, CLIMATE, HYDROLOGY, ELEVATION, MAINTENANCE, LIGHT REQUIREMENTS, BLOOM TIME AND COLOR, AND DROUGHT TOLERANCE.
- 7. UNDERDRAINS SHALL BE SIX (6) INCHES IN DIAMETER AND CONSTRUCTED OF HIGH-DENSITY POLYETHYLENE PIPING WITH A CORRUGATED EXTERIOR AND SMOOTH INNER WALL. UNDERDRAIN PIPING WITHIN THE STONE STORAGE AREAS SHALL BE FULLY-PERFORATED PIPING MEETING THE AASHTO MATERIALS SPECIFICATIONS M294 AND M252 CLASS II.



STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS STORMWATER PLANTER (PART 1 OF 4)

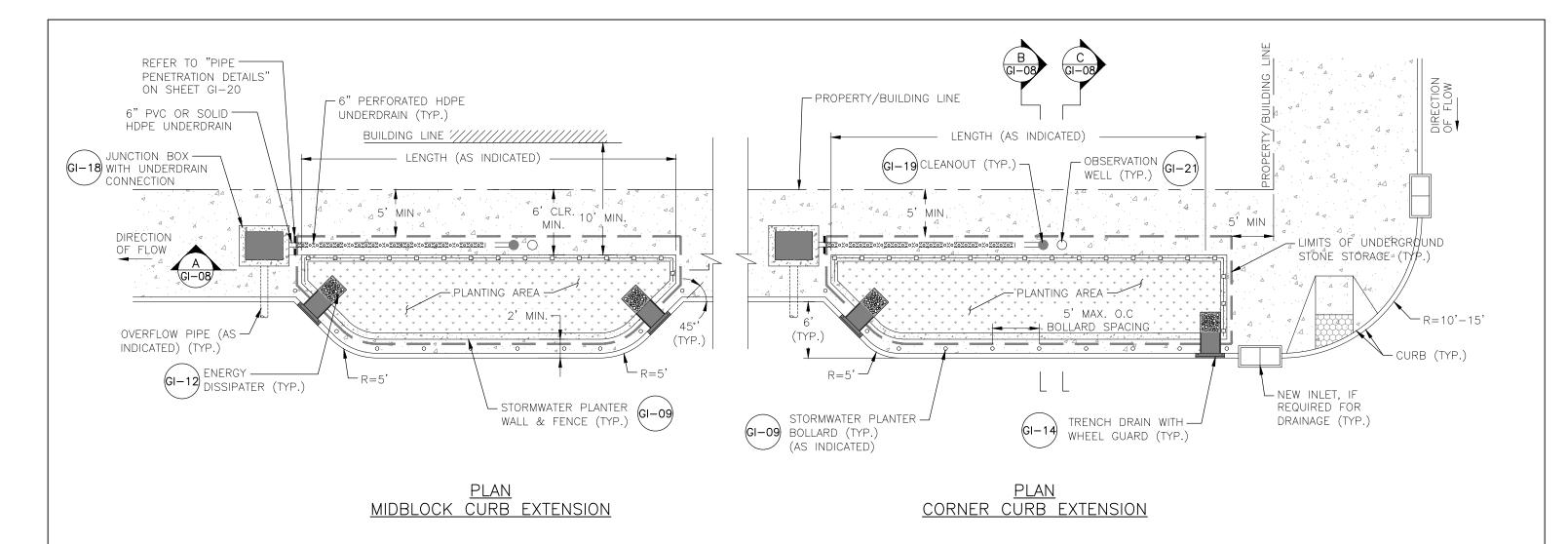
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- 1. ALL CONSTRUCTION SHALL BE ADAPTED TO ADDRESS SITE—SPECIFIC CONDITIONS. THE CONTRACTOR SHALL MAINTAIN, AT A MINIMUM, STREET WIDTH, DRAINAGE, BICYCLE LANES, BUS ROUTES, ADA ACCESSIBILITY, AND VEHICLE TURNING MANUEVERS.
- 2. WATERPROOFING MEASURES CONFORMING TO NYSDOT REQUIREMENTS SHALL BE PROVIDED WHEN DETERMINED BY THE ENGINEER.
- 3. CURB CUT SPACING SHALL BE DESIGNED TO CONVEY THE INTENDED DESIGN STORM AND SHALL CONSIDER STREET SLOPE AND CONTIBUTING DRAINAGE AREA.
- 4. THE PLANTER WALL DESIGN AND CONFIGURATION SHALL BE DESIGNED IN COORDINATION WITH STRUCTURAL AND GEOTECHNICAL ENGINEERING INPUT. THE DESIGN DRAWINGS SHALL INCLUDE PLANTER WALL DIMENSIONS, REINFORCEMENT, AND STRUCTURAL FOOTINGS.
- 5. ALL EXPOSED CONCRETE EDGES OF PLANTER WALL SHALL BE BEVELED.
- 6. THE LANDSCAPE DESIGN SHALL CONSIDER VEHICULAR SIGHT DISTANCES, CLIMATE, HYDROLOGY, ELEVATION, MAINTENANCE, LIGHT REQUIREMENTS, BLOOM TIME AND COLOR, AND DROUGHT TOLERANCE.
- 7. UNDERDRAINS SHALL BE SIX (6) INCHES IN DIAMETER AND CONSTRUCTED OF HIGH—DENSITY POLYETHYLENE PIPING WITH A CORRUGATED EXTERIOR AND SMOOTH INNER WALL. UNDERDRAIN PIPING WITHIN THE STONE STORAGE AREAS SHALL BE FULLY—PERFORATED PIPING MEETING THE AASHTO MATERIALS SPECIFICATIONS M294 AND M252 CLASS II.

BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS STORMWATER PLANTER (PART 2 OF 4)

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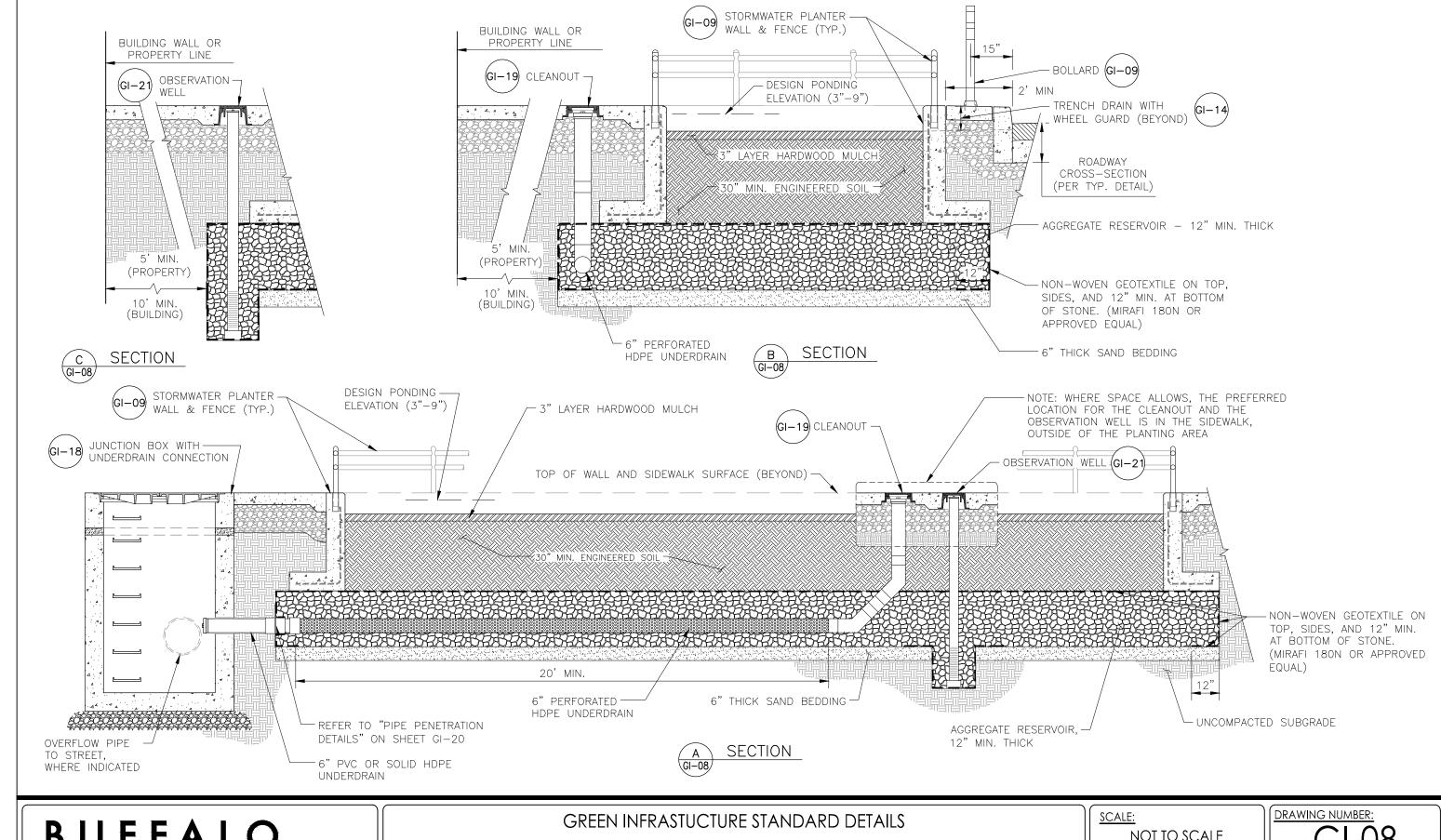
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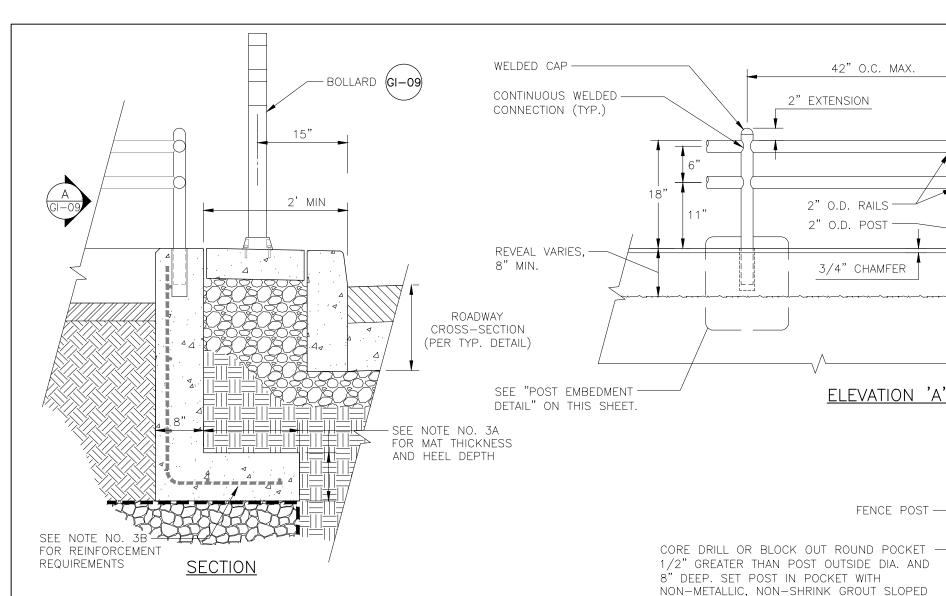
STORMWATER PLANTER (PART 3 OF 4)

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STORMWATER PLANTER WALL AND FENCE

STORMWATER PLANTER WALL AND FENCE NOTES:

- 1. REFER TO CONTRACT DOCUMENTS FOR WALL ELEVATIONS. THE TOP OF WALL SHALL BE FLUSH WITH THE ADJACENT SIDEWALK GRADE TO ALLOW FOR RUNOFF.
- 2. CONCRETE FOR THE WALL SHALL BE 5,000 PSI.
- THE FOLLOWING DESIGN COMPONENTS ASSOCIATED WITH THE WALL SHALL BE DETERMINED BY AN ENGINEER AND INDICATED IN THE THE CONTRACT DRAWINGS:
 - DIMENSIONS ASSOCIATED WITH THE WIDTH AND THICKNESS OF THE FOOTING.
 - LOCATION, SIZE AND SPACING OF METAL REINFORCEMENT.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO INCLUDE REINFORCEMENT AND FENCE POST LAYOUT.
- FENCE POSTS AND RAILS SHALL BE MANUFACTURED FROM SCH40 STEEL PIPE, AND RECEIVE THE FOLLOWING SURFACE TREATMENT:
 - PRIME COAT ALL SURFACES WITH RUST & CORROSION RESISTANT, ZINC RICH PRIMER W/ 5,000 HOUR SALT SPRAY PERFORMANCE.
 - FINISH: TGIC POLYESTER OUTDOOR FINISH; COLOR: BLACK

BOLLARD SPECIFICATIONS:

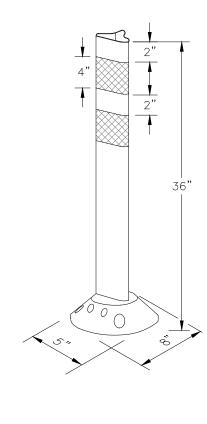
MANUFACTURER: PEXCO TRAFFIC CONTROL PRODUCTS
MODEL NO. FG 300 MODEL EFX, HIGH
PERFORMANCE SURFACE MOUNT

BASE TYPE: HEIGHT:

YELLOW WITH METRO BASE COLOR:

BOLLARD INSTALLATION NOTES:

- 1. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MOUNTING THE BASE INTO CONCRETE USING ANCHOR BOLTS.
- CONTRACTOR TO SUPPLY FOUR (4) 3/8" DIA. x 3" LONG SS ANCHOR BOLTS.



BOLLARD

POST EMBEDMENT DETAIL

FENCE POST -

BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS STORMWATER PLANTER (PART 4 OF 4)

UP TO 1/4" ABOVE TOP OF POCKET AT POST. MAINTAIN MIN. 3" CLEARANCE BETWEEN

CONTRACTOR SHALL COORDINATE FENCE POST

LOCATION WITH REINFORCEMENT PLACEMENT.

SEE NOTE 3, "STORMWATER PLANTER WALL

POST AND CONCRETE EDGES.

AND FENCE NOTES".

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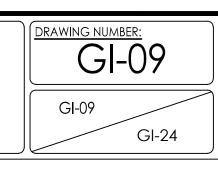
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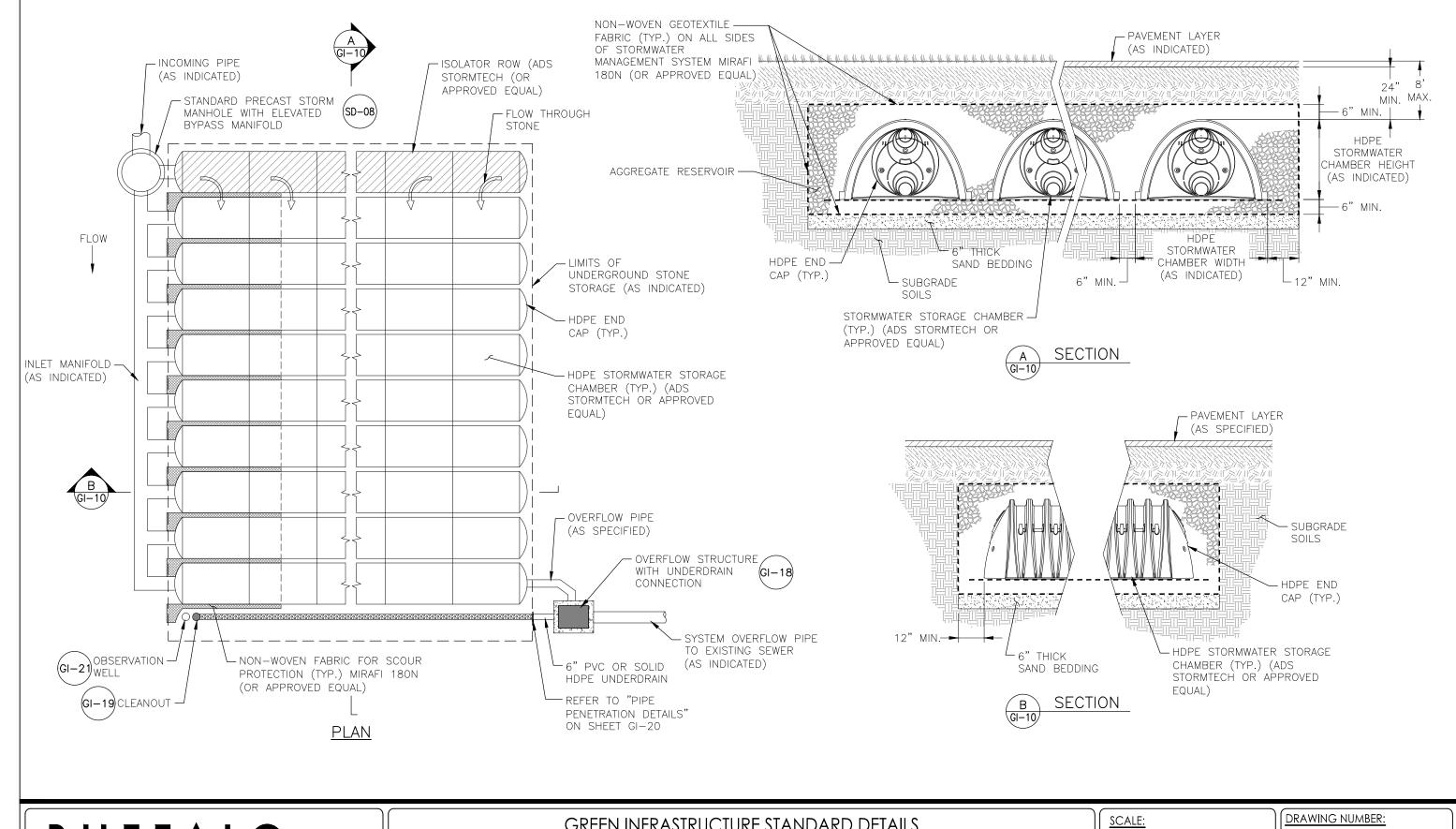
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GREEN INFRASTRUCTURE STANDARD DETAILS UNDERGROUND STORMWATER STORAGE SYSTEM (PART 1 OF 2)

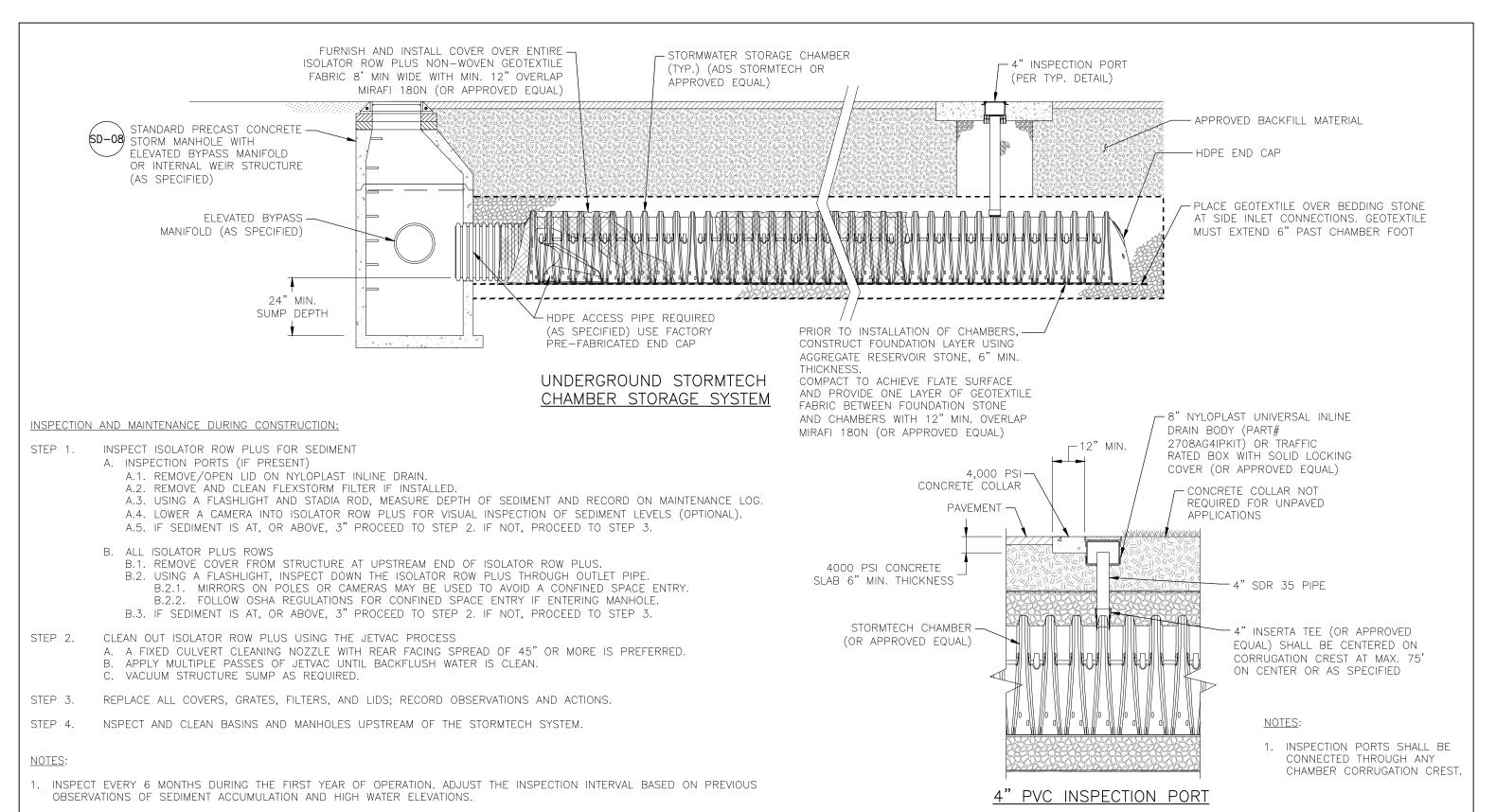
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2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS UNDERGROUND STORMWATER STORAGE SYSTEM (PART 2 OF 2)

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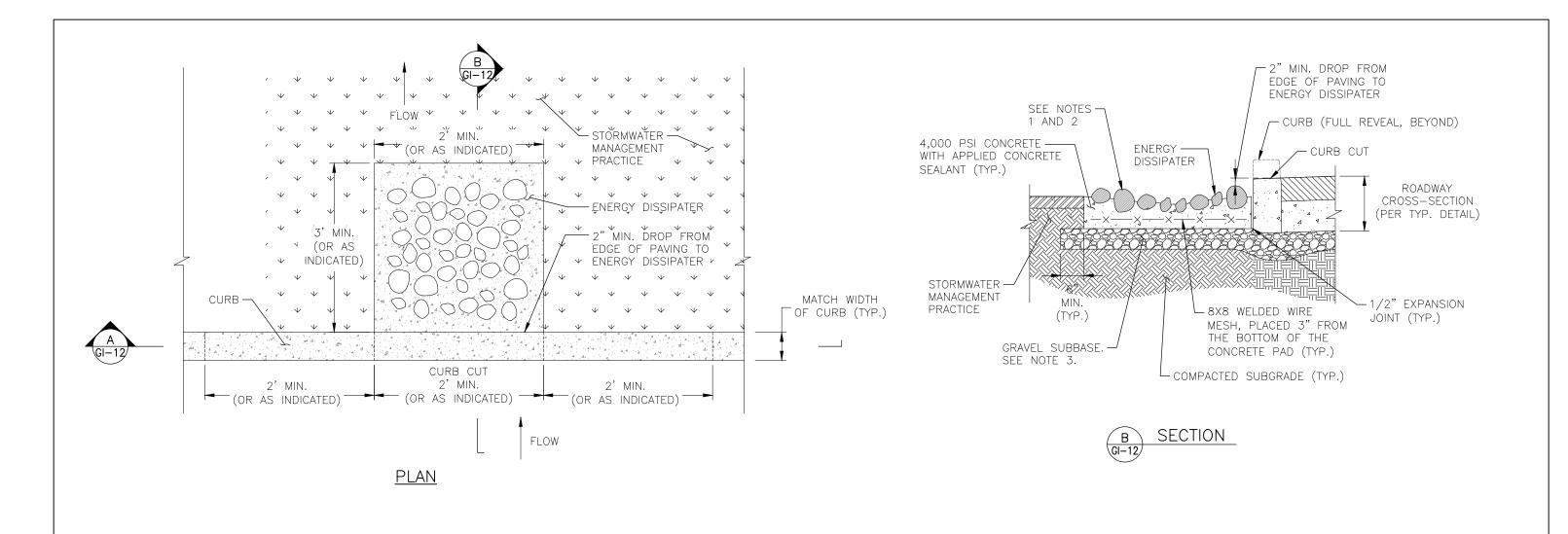
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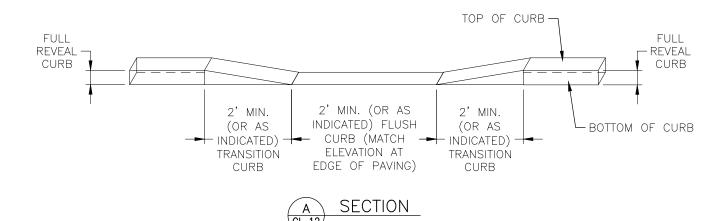
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- 1. D50=6" DIAMETER RIVERSTONE TO BE SET INTO CONCRETE PAD FOLLOWING INITIAL CURING OF CONCRETE. RIVERSTONE TO BE FREE OF JAGGED EDGES. SPACE RIVERTSTONE NO MORE THAN 1" APART.
- 2. SET TOP OF STONES BELOW INVERT OPENING, ARRANGE RIVERSTONE IN PATTERN THAT PREVENTS LINEAR FLOW PATHS THROUGH ENERGY DISSIPATER. MAKE SIDES SLIGHTLY HIGHER THAN MIDDLE CHANNEL.
- 3. GRAVEL SUBBASE SHALL BE NYSDOT 703-2, SIZE NO. 2. STORMWATER SOIL AND STONE SUBBASE IMMEDIATELY BELOW AND SURROUNDING ENERGY DISSIPATER SHALL BE COMPACTED TO ENSURE NO LATERAL MOVEMENT PRIOR TO INSTALLATION.

BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS **CURB CUT AND ENERGY DISSIPATER**

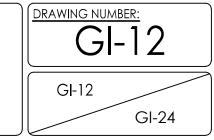
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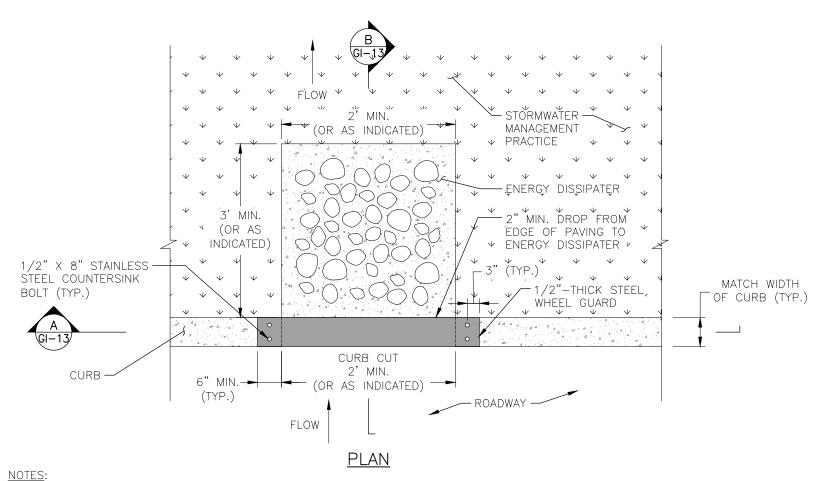
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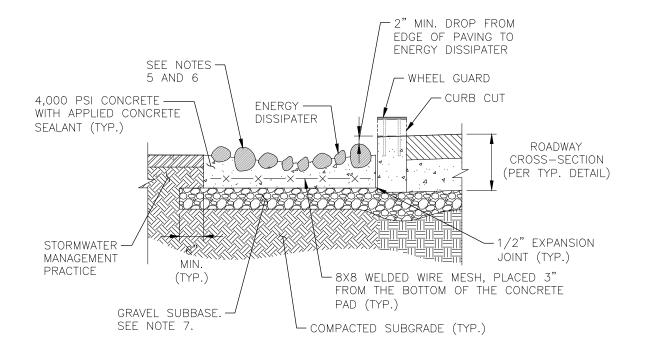
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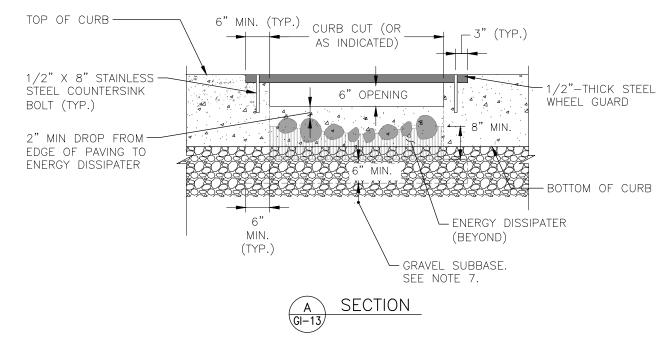






SECTION

- 1. THE WHEEL GUARD SHALL BE INSTALLED TO ALIGN WITH THE PROPOSED CURB CUT WIDTH AND SHOULD EXTEND A MINIMUM OF SIX INCHES ON BOTH SIDES OF THE CURB CUT.
- 2. THE WHEEL GUARD SHALL BE CONSTRUCTED OF A STEEL PLATE WITH A MINIMUM TENSILE STRENGTH OF 35,000 PSI AND A MINIMUM THICKNESS OF 1/2 INCH. THE STEEL SHALL BE CLOSE GRAINED SMOOTH GRAY IRON CONFORMING IN ALL RÉSPECTS TO THE STANDARDS OF GRAY IRON CASTINGS (DESIGNATION A-48-60T) CLASS NO. 35B, OR BETTER OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
- 3. THE WHEEL GUARD AND ASSOCIATED HARDWARE SHALL BE SET FLUSH WITH THE TOP OF THE CURB.
- 4. THE WHEEL GUARD BOLTS SHALL BE STAINLESS STEEL GRADE 304.
- 5. D50=6" DIAMETER RIVERSTONE TO BE SET INTO CONCRETE PAD FOLLOWING INITIAL CURING OF CONCRETE. RIVERSTONE TO BE FREE OF JAGGED EDGES. SPACE RIVERTSTONE NO MORE THAN 1" APART.
- 6. SET TOP OF STONES BELOW INVERT OPENING. ARRANGE RIVERSTONE IN PATTERN THAT PREVENTS LINEAR FLOW PATHS THROUGH ENERGY DISSIPATER. MAKE SIDES SLIGHTLY HIGHER THAN MIDDLE CHANNEL
- 7. GRAVEL SUBBASE SHALL BE NYSDOT 703-2, SIZE NO. 2. STORMWATER SOIL AND STONE SUBBASE IMMEDIATELY BELOW AND SURROUNDING ENERGY DISSIPATER SHALL BE COMPACTED TO ENSURE NO LATERAL MOVEMENT PRIOR TO INSTALLATION.



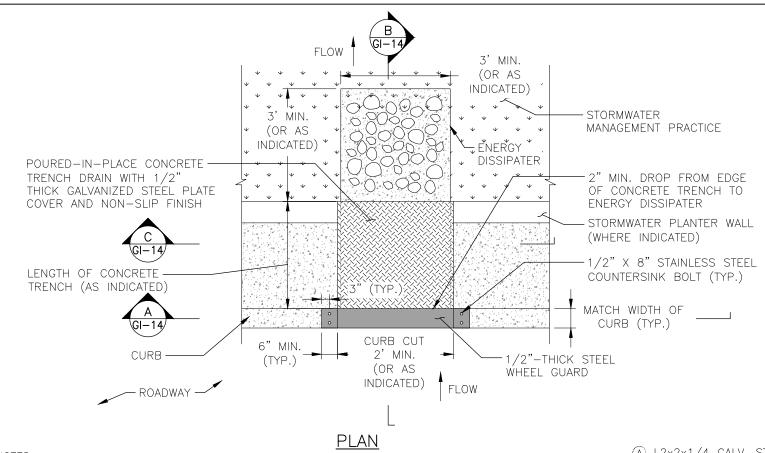
BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS CURB CUT WITH WHEEL GUARD AND ENERGY DISSIPATER

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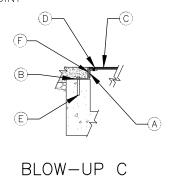


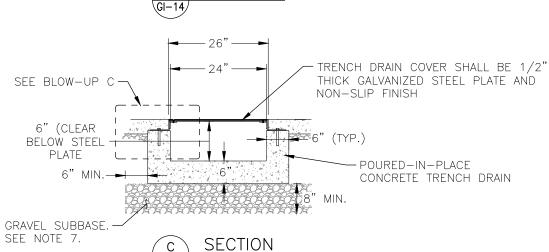
- NOTES:
- 1. THE TRENCH DRAIN COVER SHALL BE CONSTRUCTED OF A STEEL PLATE WITH A MINIMUM TENSILE STRENGTH OF 35,000 PSI AND A MINIMUM THICKNESS OF ONE-HALF (1/2) INCH. THE GRATE SHALL BE CUT TO EXTEND CONTINUOUSLY FROM THE BACK OF CURB ALONG THE STREET TO THE INTERIOR PLANTING WALL.
- THE WHEEL GUARD SHALL BE INSTALLED BE DESIGNED TO ALIGN WITH THE PROPOSED CURB CUT WIDTH AND SHOULD EXTEND A MINIMUM OF SIX INCHES ON BOTH SIDES OF THE CURB CUT.

THE WHEEL GUARD SHALL BE CONSTRUCTED OF A STEEL PLATE WITH A MINIMUM TENSILE STRENGTH OF 35,000 PSI AND A MINIMUM THICKNESS OF 1/2 INCH. THE STEEL SHALL BE CLOSE GRAINED SMOOTH GRAY IRON CONFORMING IN ALL RESPECTS TO THE STANDARDS OF GRAY IRON CASTINGS (DESIGNATION A-48-60T) CLASS NO. 35B, OR BETTER OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.

- 3. THE WHEEL GUARD AND ASSOCIATED HARDWARE SHALL BE SET FLUSH WITH THE TOP OF THE CURB.
- 4. THE WHEEL GUARD BOLTS SHALL BE STAINLESS STEEL GRADE 304.
- 5. D50=6" DIAMETER RIVERSTONE TO BE SET INTO CONCRETE PAD FOLLOWING INITIAL CURING OF CONCRETE. RIVERSTONE TO BE FREE OF JAGGED EDGES. SPACE RIVERTSTONE TO ACHIEVE AN AVERAGE PF 3/4 INCH SPACING, SPACING SHALL BE PROVIDED BETWEEN 1/2 INCH AND 1 INCH.
- 6. SET TOP OF STONES BELOW INVERT OPENING. ARRANGE RIVERSTONE IN PATTERN THAT PREVENTS LINEAR FLOW PATHS THROUGH ENERGY DISSIPATER. MAKE SIDES SLIGHTLY HIGHER THAN MIDDLE CHANNEL.
- GRAVEL SUBBASE SHALL BE NYSDOT 703-2, SIZE NO. 2. STORMWATER SOIL AND STONE SUBBASE IMMEDIATELY BELOW AND SURROUNDING ENERGY DISSIPATER SHALL BE COMPACTED TO ENSURE NO LATERAL MOVEMENT PRIOR TO INSTALLATION.

- (A) L2x2x1/4 GALV. STEEL
- (B) L5X3X1/4 GALV. STEEL
- (c) 1/2" GALV. PLATE
- 3/8" DIA. GALV. COUNTERSINK SELF DRILLING SCREW @12" O.C.
- © 3/8" DIA. ANCHOR, 4" EMBEDMENT LOCATE 12" O.C.
- (F) 1/2" CLOSED CELL FOAM EXPANSION JOINT





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SECTION

6" MIN. (TYP.)

TOP OF CURB-

2" MIN DROP FROM

EDGE OF PAVING TO

CONCRETE TRENCH DRAIN

ENERGY DISSIPATER -SEE NOTES 5 AND 6

6" MIN.

(TYP.)

8X8 WELDED WIRE MESH

PLACED 3" FROM THE

CONCRETE PAD (TYP.)

BOTTOM OF THE

CONCRETE TRENCH

DRAIN

(BEYOND)

4,000 PSI CONCRETE -

SEALANT (TYP.)

STORMWATER :

MANAGEMENT

PRACTICE

WITH APPLIED CONCRETE

CURB CUT

(AS INDICATED)

SECTION

1V:12H MAX.

GRAVEL SUBBASE. -

SEE NOTE 7.

OPENING

1/2"-THICK STEEL

1/2" X 8" STAINLESS

STEEL COUNTERSINK

BOTTOM OF CURB

TRENCH DRAIN COVER SHALL BE

-1/2" THICK STEEL WHEEL GUARD

ROADWAY CROSS-SECTION (PER TYP. DETAIL)

1/2" EXPANSION

2" MIN. DROP FROM

EDGE OF PAVING TO

JOINT (TYP.)

TRENCH DRAIN

1/2" THICK GALVANIZED STEEL

PLATE WITH NON-SLIP FINISH

CURB CUT

STORMWATER PLANTER WALL

WHEEL GUARD

BOLT (TYP.)

GRAVEL SUBBASE.

SEE NOTE 7.

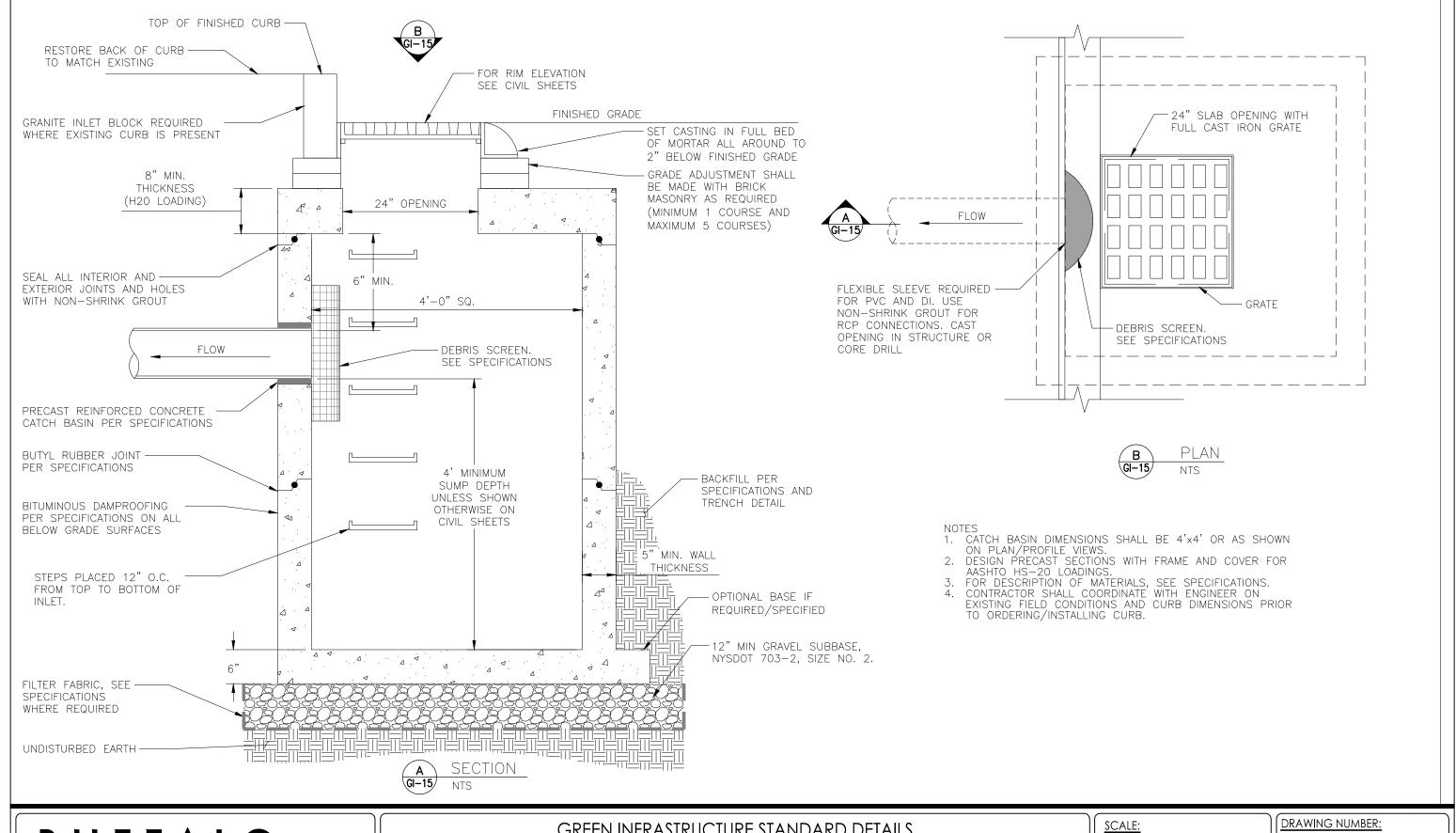
GREEN INFRASTRUCTURE STANDARD DETAILS TRENCH DRAIN WITH WHEEL GUARD AND ENERGY DISSIPATER

> #0 2024.12.06 PRELIMINARY ISSUE BC

BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

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BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS GI CATCH BASIN

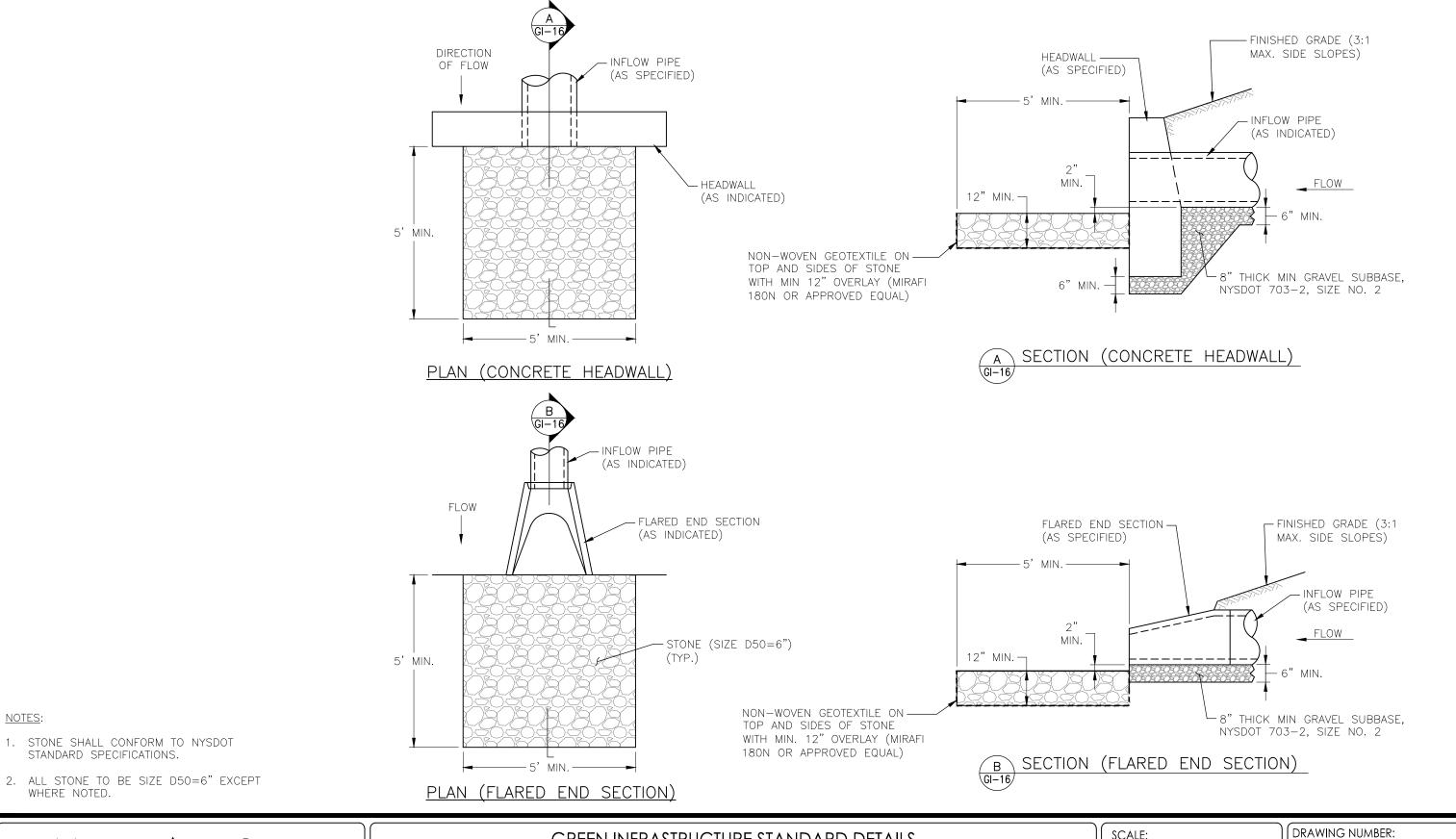
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STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS STONE APRON OUTLET PROTECTION

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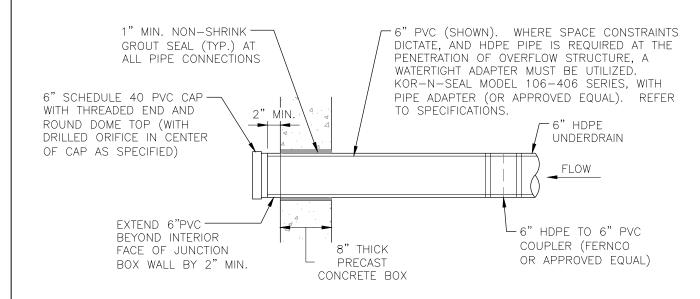
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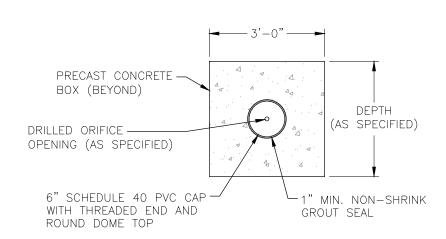
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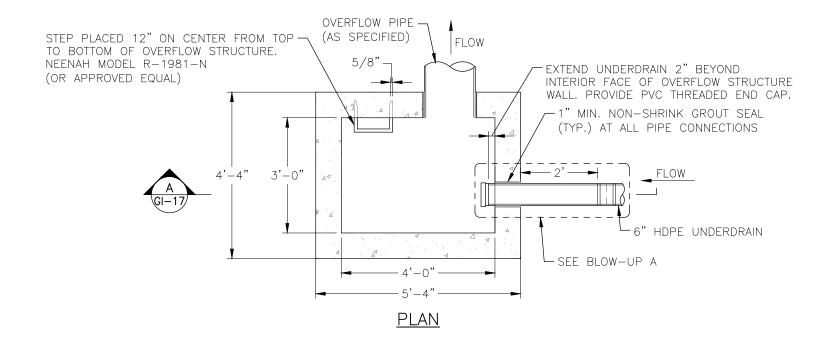
BLOW-UP A

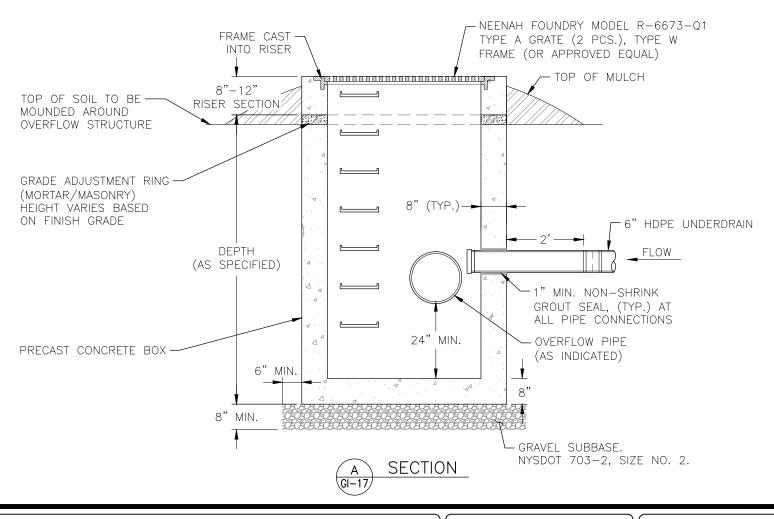


DRILLED ORIFICE DETAIL

NOTES:

- 1. ALL JOINTS, GRADE ADJUSTMENTS, AND CONNECTIONS SHALL BE WATERTIGHT.
- 2. SUBGRADE BELOW DRAINAGE STRUCTURE SHALL BE COMPACTED EARTH





BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS OVERFLOW STRUCTURE WITH UNDERDRAIN CONNECTION

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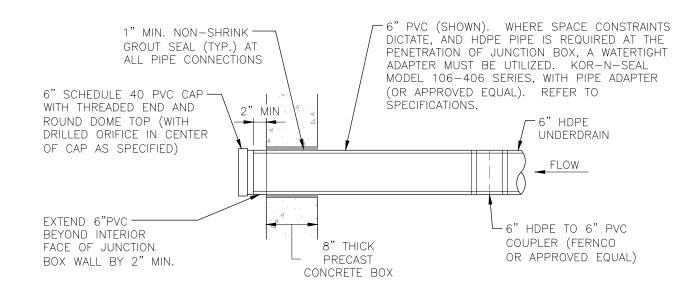
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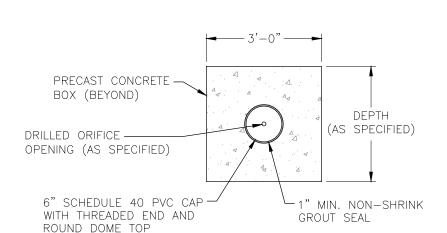
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Gl-17 Gl-24



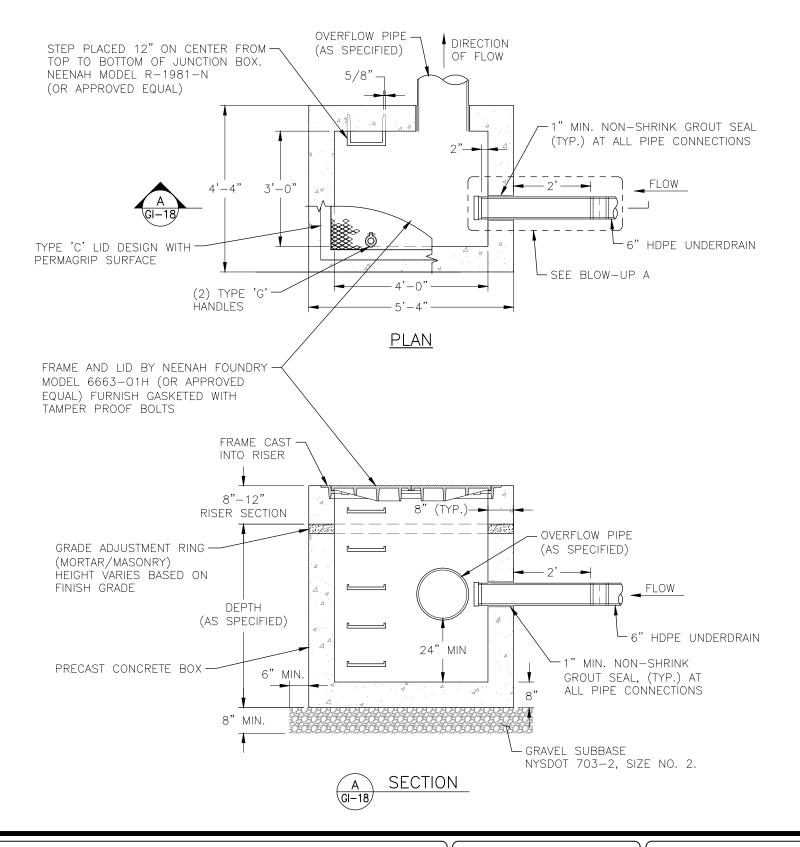
BLOW-UP A



DRILLED ORIFICE DETAIL

NOTES:

- 1. ALL JOINTS, GRADE ADJUSTMENTS, AND CONNECTIONS SHALL BE WATERTIGHT.
- 2. JUNCTION BOX GRATE SHALL BE ADA COMPLIANT AND SHALL BE ADJUSTED TO MATCH THE GRADE OF THE SURROUNDING PAVEMENT.



BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS JUNCTION BOX WITH UNDERDRAIN CONNECTION

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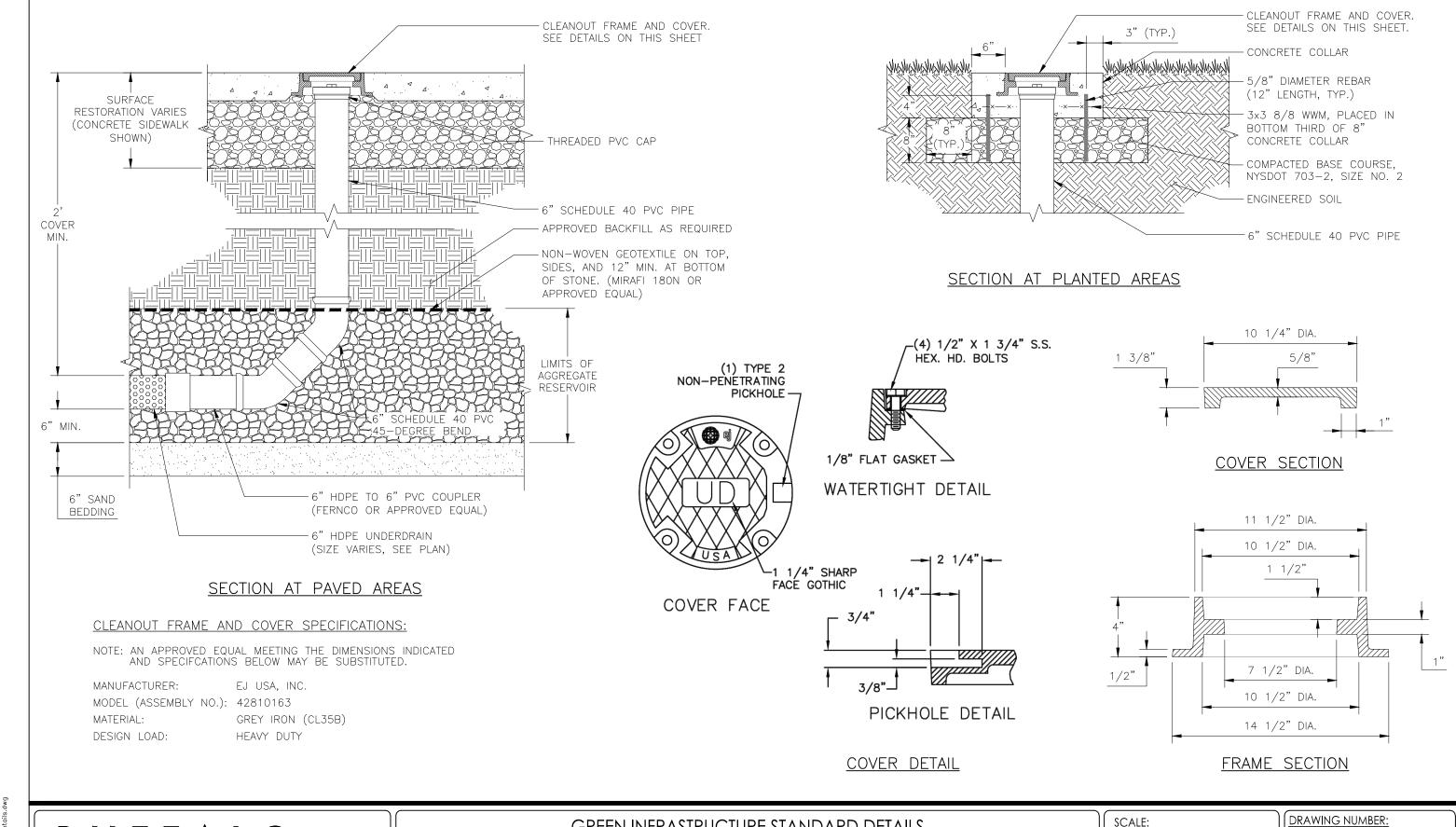
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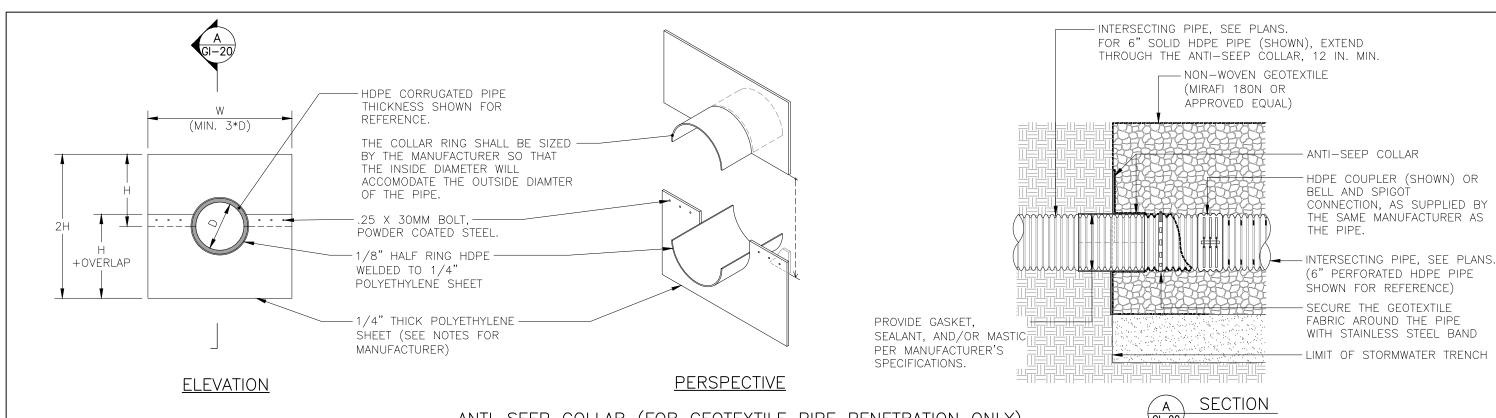
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ANTI-SEEP COLLAR (FOR GEOTEXTILE PIPE PENETRATION ONLY) ANTI-SEEP COLLAR NOTES

- 1. ANTI-SEEP COLLAR SHALL BE USED WHEREVER UNDERDRAIN OR DISTRIBUTION PIPE ENTERS OR EXITS THE STORMWATER STORAGE TRENCH.
- 2. ANTI-SEEP COLLAR SHALL BE QUARTER-INCH (1/4") HIGH-DENSITY POLYETHYLENE SHEETS.
- ALL METAL FITTINGS AND ATTACHMENTS SHALL BE NYLON OR STAINLESS STEEL (GRADE 304 OR
- 4. ANTI-SEEP COLLAR SHALL BE SEALED WITH TAR OR MASTIC PER MANUFACTURER'S SPECIFICATIONS.
- ANTI-SEEP COLLAR SPECIFICATIONS:

MANUFACTURER: EASTERN SUPPLY 240 McGHEE RD.

WINCHESTER, VA 22603 PHONE: 540-722-3292 www.easternsupply.com

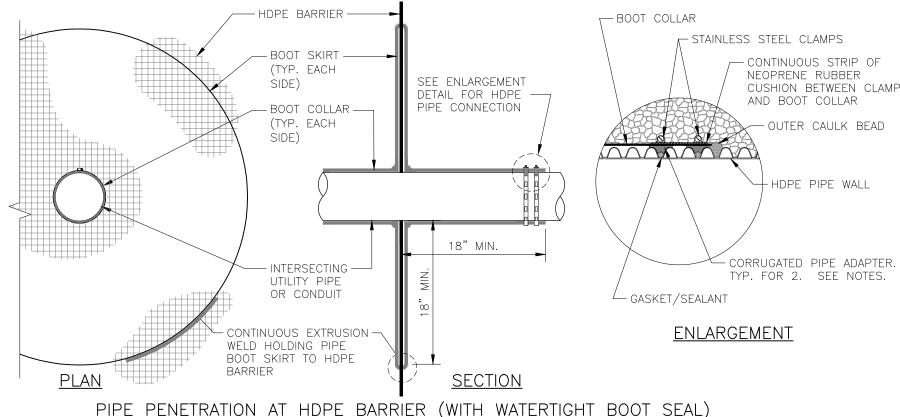
NOTE: SUBSTITUTION FOR THE ANTI-SEEP COLLAR SHALL ONLY BE ALLOWED FOR A PRODUCT THAT MEETS OR EXCEEDS THE DETAILS AND SPECIFICATIONS INDICATED.

PIPE PENETRATION AT HDPE BARRIER NOTES:

- THE DETAIL SHOWN SHALL APPLY TO ALL PIPE PENETRATIONS THROUGH AN IMPERMEABLE HDPE BARRIER. FOR STORMWATER PIPE PENETRATION, THE PREFERRED PIPE MATERIAL IS PVC. WHERE INCOMING OR OUTGOING PIPE IS HDPE, THE TRANSITION TO PVC SHALL BE ACHIEVED BY MEANS OF A FERNCO (OR APPROVED EQUAL) COUPLER. SEE NOTE 3 FOR INSTANCES WHERE CORRUGATED HDPE PIPE, DUE TO DIMENSIONAL CONSTRAINTS, MUST BE USED THROUGH THE PENETRATION. REFER TO PLANS FOR LOCATION AND PIPE SIZE.
- THE WELD THAT CONNECTS THE PIPE BOOT TO THE PIPE SKIRT SHALL NOT BE REQUIRED IF THE ITEM IS A PREFABRICATED AND APPROVED BY THE ENGINEER.
- FOR HDPE CORRUGATED PIPE 8" OR GREATER, PROVIDE PIPE ADAPTERS AS SPECIFIED BELOW, OR APPROVED EQUAL, TO MATCH THE PIPE MANUFACTURER: MANUFACTURER: TRELLEBORG

TYPE/PART NO.

www.trelleborg.com



BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

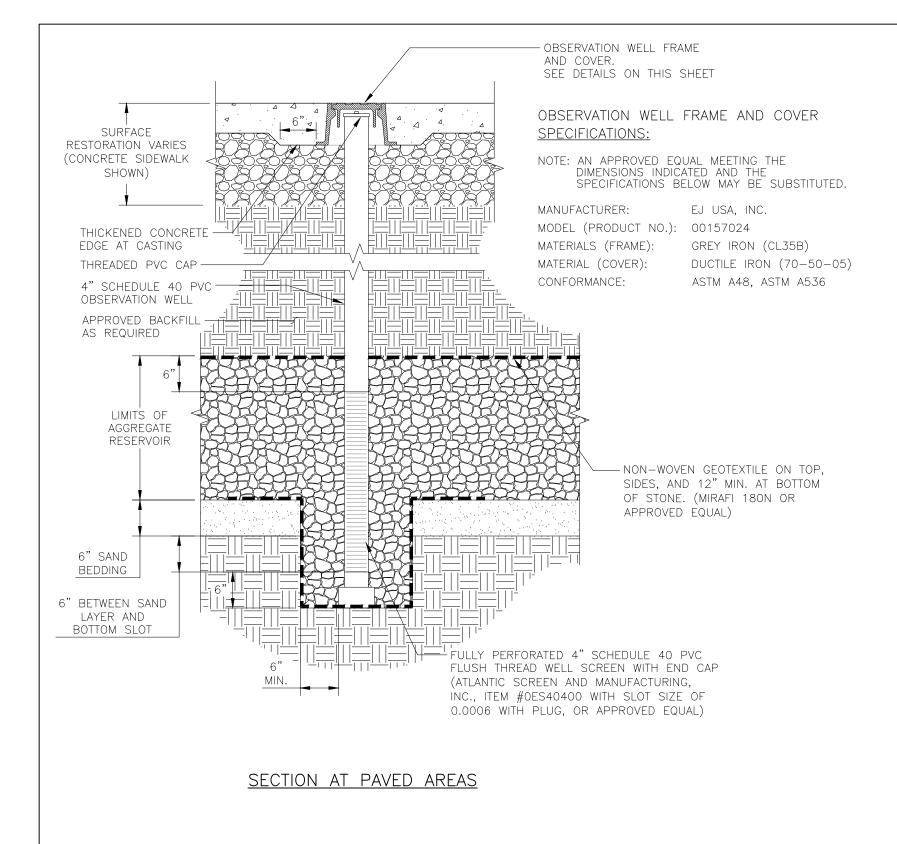
GREEN INFRASTRUCTURE STANDARD DETAILS PIPE PENETRATION DETAILS

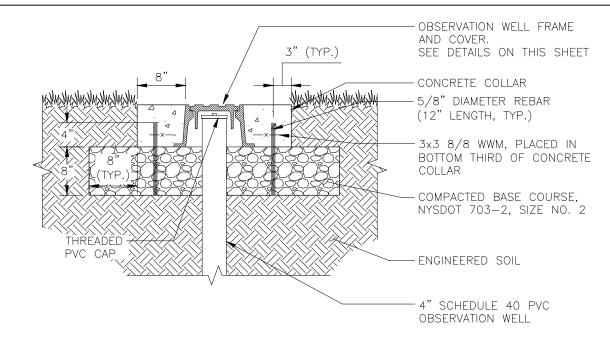
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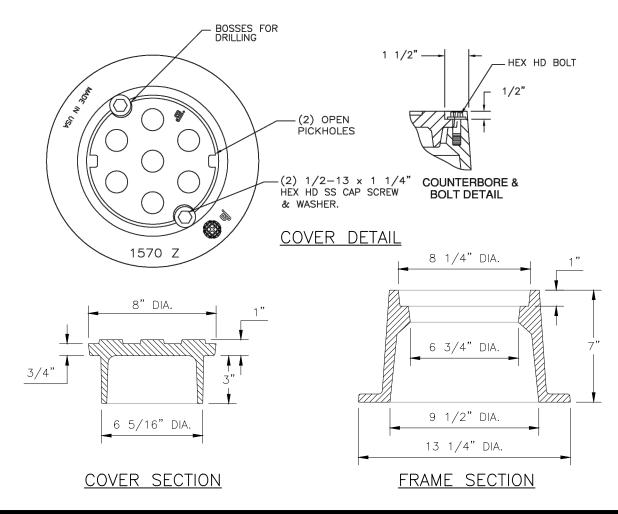
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SECTION AT PLANTED AREAS



BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS **OBSERVATION WELL**

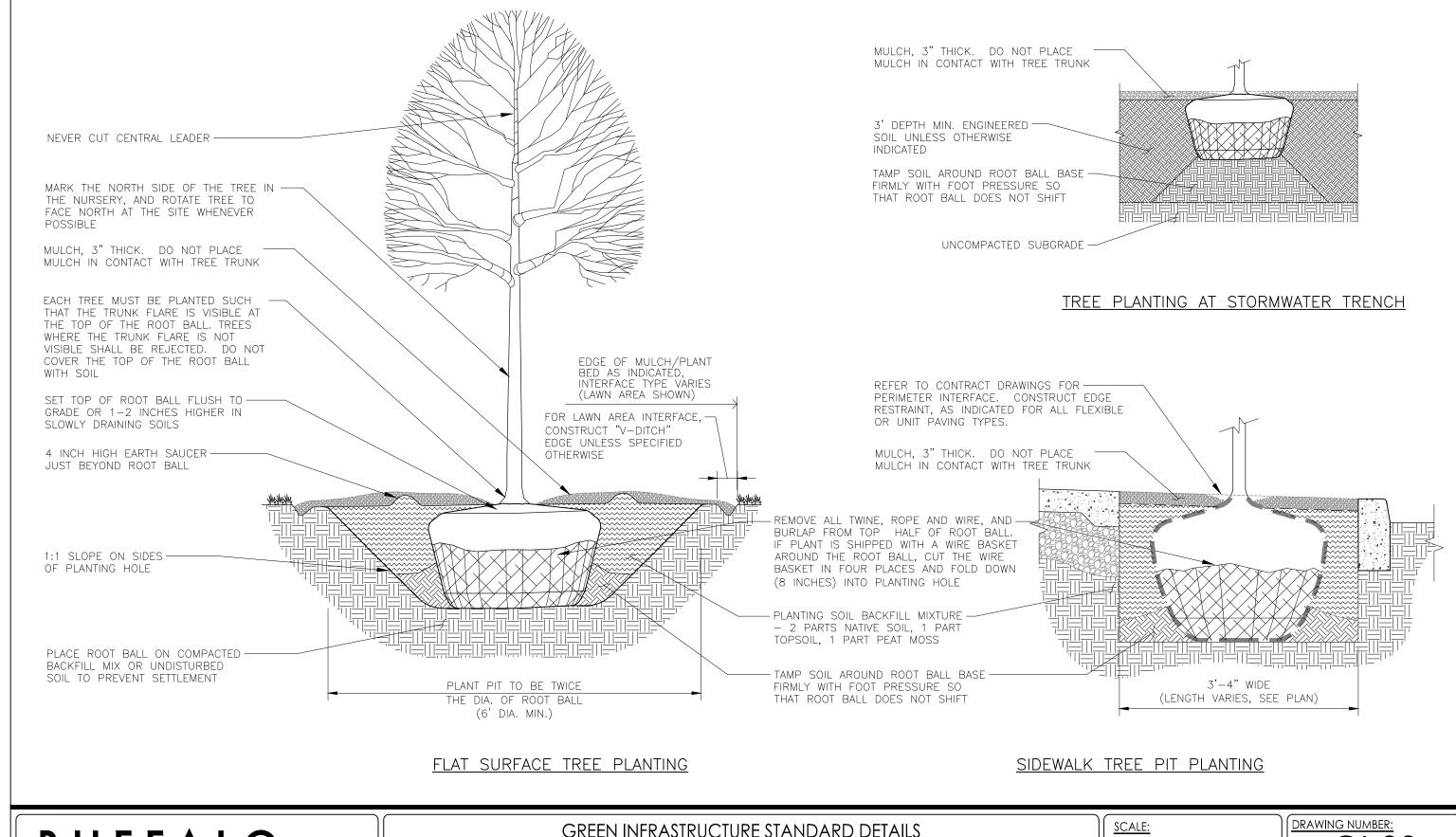
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GREEN INFRASTRUCTURE STANDARD DETAILS PLANTINGS (PART 1 OF 3)

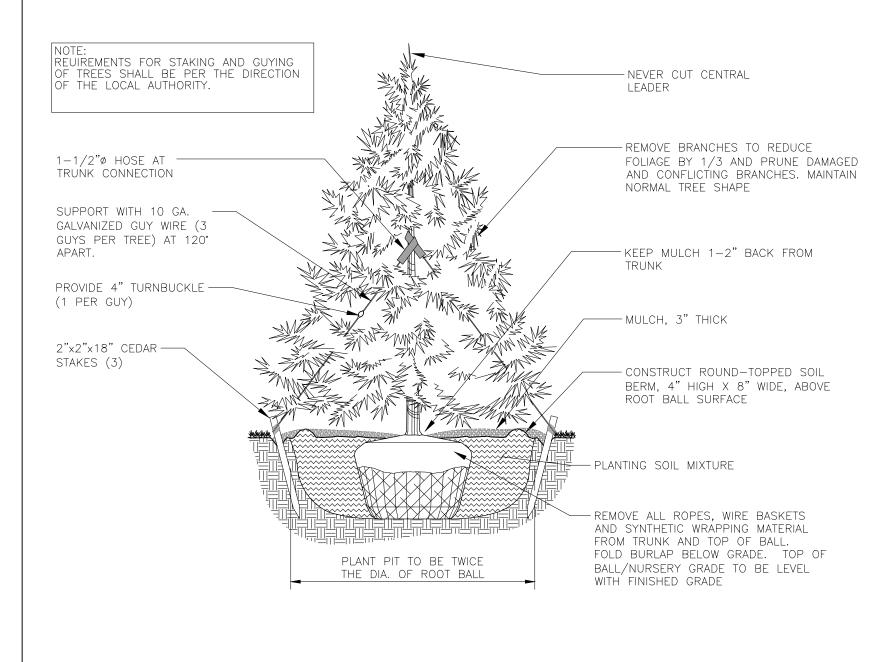
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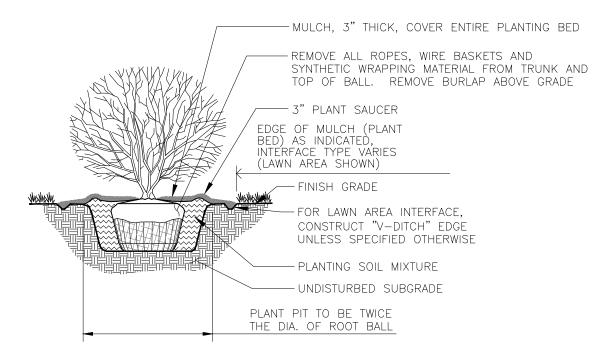
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- 1. BACKFILL PLANT PITS IN 12" COMPACTED LIFTS, MINIMUM 90% MAXIMUM DRY DENSITY PER ASTM D-1557. THOROUGHLY WATER EACH LIFT WHILE PLANTING.
- 2. ROOT BALLS GREATER THAN 2' Ø SHALL SIT ON A MOUND OF UNDISTURBED SOIL TO PREVENT SETTLEMENT.
- 3. ROOT BALLS SMALLER THAN 2' Ø SHALL SIT ON COMPACTED PLANTING
- 4. TOP OF ROOT BALL SHALL BE 1" TO 2" ABOVE FINISH GRADE.
- 5. PLANTING HOLE FOR ROOT BALL SIZES 2' Ø AND LARGER SHALL BE 2' LARGER ON ALL SIDES THAN DIAMETER OF ROOT BALL.
- 6. PLANTING HOLE FOR ROOT BALL SIZES LESS THAN 2' Ø SHALL BE TWICE THE DIAMETER OF THE ROOT BALL.



EVERGREEN TREE

SHRUB

BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS PLANTINGS (PART 2 OF 3)

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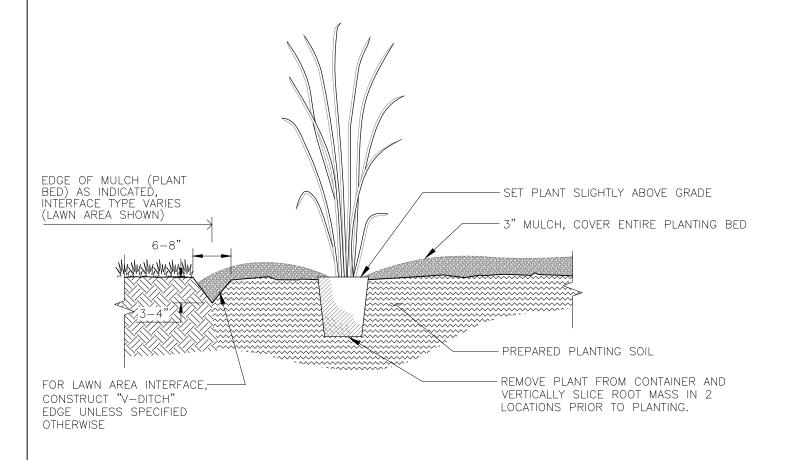
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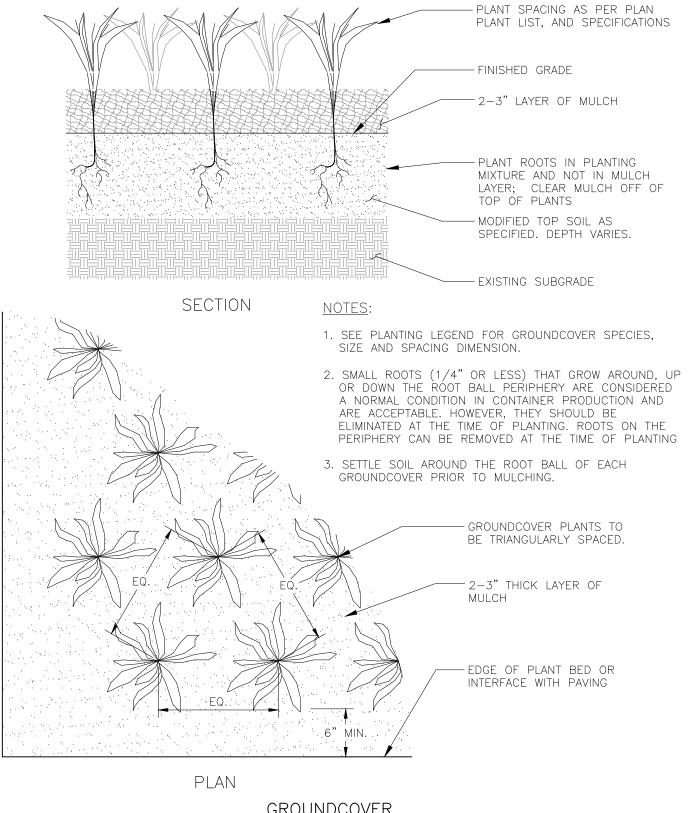
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- 1. SEE PLANT LIST FOR SPACING DISTANCES FOR VARIOUS ORNAMENTAL GRASS SPECIES.
- 2. FOR ALL PLANTING BEDS INDICATED FOR ORNAMENTAL GRASSES, BREAK UP OR DISC EXISTING SOIL TO A DEPTH OF 6 INCHES. ALLOW TILLED SOIL TO DRY, THEN APPLY A 2" THICK LAYER OF ORGANIC COMPOST MATERIAL AND THOROUGHLY TILL COMPOST INTO SOIL AS REQUIRED TO PRODUCE A UNIFORM TEXTURE. SMOOTH AND FIRM THE MODIFIED SOIL PRIOR TO PLANTING.
- 3. REFER TO 'GROUNDCOVER' DETAIL FOR TYPICAL PLANTING ARRANGEMENT.





/ ORNAMENTAL GRASS PERENNIAL

GROUNDCOVER

BUFFALO SEWER AUTHORITY

STANDARD DETAILS FOR CONSTRUCTION

GREEN INFRASTRUCTURE STANDARD DETAILS PLANTINGS (PART 3 OF 3)

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Appendix C: Agency Correspondence







Meeting Minutes

Project: BSA Green Infrastructure Project

SEQRA- SHPO Consultation Meeting

Location: Teams Meeting

Time: 10:00 a.m. – 10:20 a.m.

Date: January 28, 2025

Attendees: Chelsea Towers (NYS SHPO)

Angela Gardner (JM Davidson Engineering, JMD)

Krista Greer (JM Davidson Engineering)

Highlights of the meeting are as follows:

1. Introductions

Angela and Krista explained to Chelsea an overview of the project- BSA as part of their CSO long term control plan is implementing green infrastructure throughout the City of Buffalo and BSA's system to reduce stormwater discharge into the sewer system. There are over 500 different locations where practices such as bump outs, rain gardens, porous pavement, and tree trenches could be implemented within the right-of-way (ROW) of streets and the sewer system. Twenty (20) schools are under consideration for green infrastructure and JMD is organizing to visit these sites. Two (2) parks including MLK Park, are also under consideration.

2. SHPO Involvement & Consultation

JMD is unaware of any other state or federal agency involvement in the project other than NY State Education Department (SED). As a result, Chelsea recommended that each one of the school sites have their own submission in the CRIS system. The remaining sites, including the parks, can be one large, single submission in CRIS.

The GI sites that are within the existing ROW are not a concern to SHPO unless the GI will be inside of existing historic districts. For the large submission for the project, identify on a map as part of the submission, where the designated historic districts are. This will aid the review in what historic architecture is there, such as brick streets, slate sidewalks, and other potential historic street features that could be affected by the GI work within the street/utility ROW.

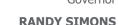
Include an initiating letter with the project submission describing the work, the purpose, and agency involvement for SEQRA. List which historic districts and corresponding listing numbers with the submission. Include general plans for each different type of green infrastructure practice.

For the parks, MLK Park is undergoing an updated nomination and SHPO may have photos of all the structures/features within the park. Photo documentation will be required for each park. Concept plans on what work could be done at each park will be needed as part of the submission. Chelsea is willing to do a preliminary look at the plans for the parks and provide feedback on the concept and if what is proposed will pose issues.

For each school property, verify in CRIS if the school has been previously assessed by SHPO for eligibility. If the school has not been previously assessed, photos of the main spaces inside of the school will be required as part of the CRIS submission. Representative photos of the main meeting spaces such as main lobby, cafeteria, representative/typical classroom, auditorium, and representative photos of the hallways are what is necessary for SHPO to perform an assessment.

Notify Chelsea via email that the submissions are about to made in CRIS.





Commissioner Pro Tempore



March 13, 2025

Curtis McCoy Stantec 210 School House Ln Wilmington, DE 19809

Re: SED

Buffalo Sewer Authority GI Program

50 A St, Buffalo, NY 14211

25PR01808

Dear Curtis McCoy:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York State Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

The proposed project area includes sitework at several Buffalo Public schools that are listed (PS 74, PS 80, PS 92) or eligible for listing (PS 8, PS 31, PS 53, PS 61, PS, 82, PS 97 and PS 309) in the State and National Registers of Historic Places. Our office has reviewed the proposed green stormwater infrastructure project. Based upon our review, it is the OPRHP's opinion that this project will have No Adverse Impact on historic or archaeological resources.

If you have any questions, I am best reached by email.

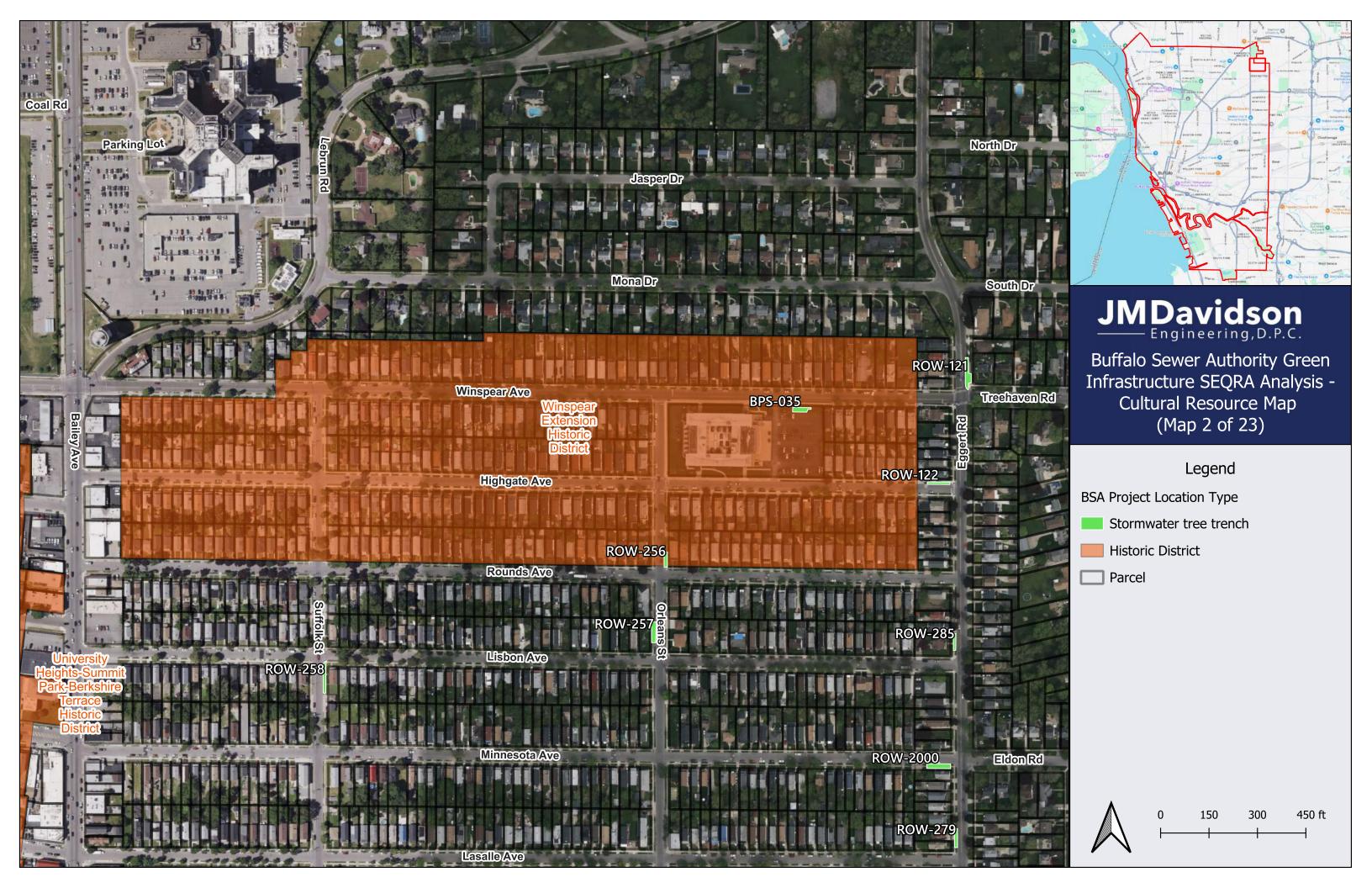
Sincerely,

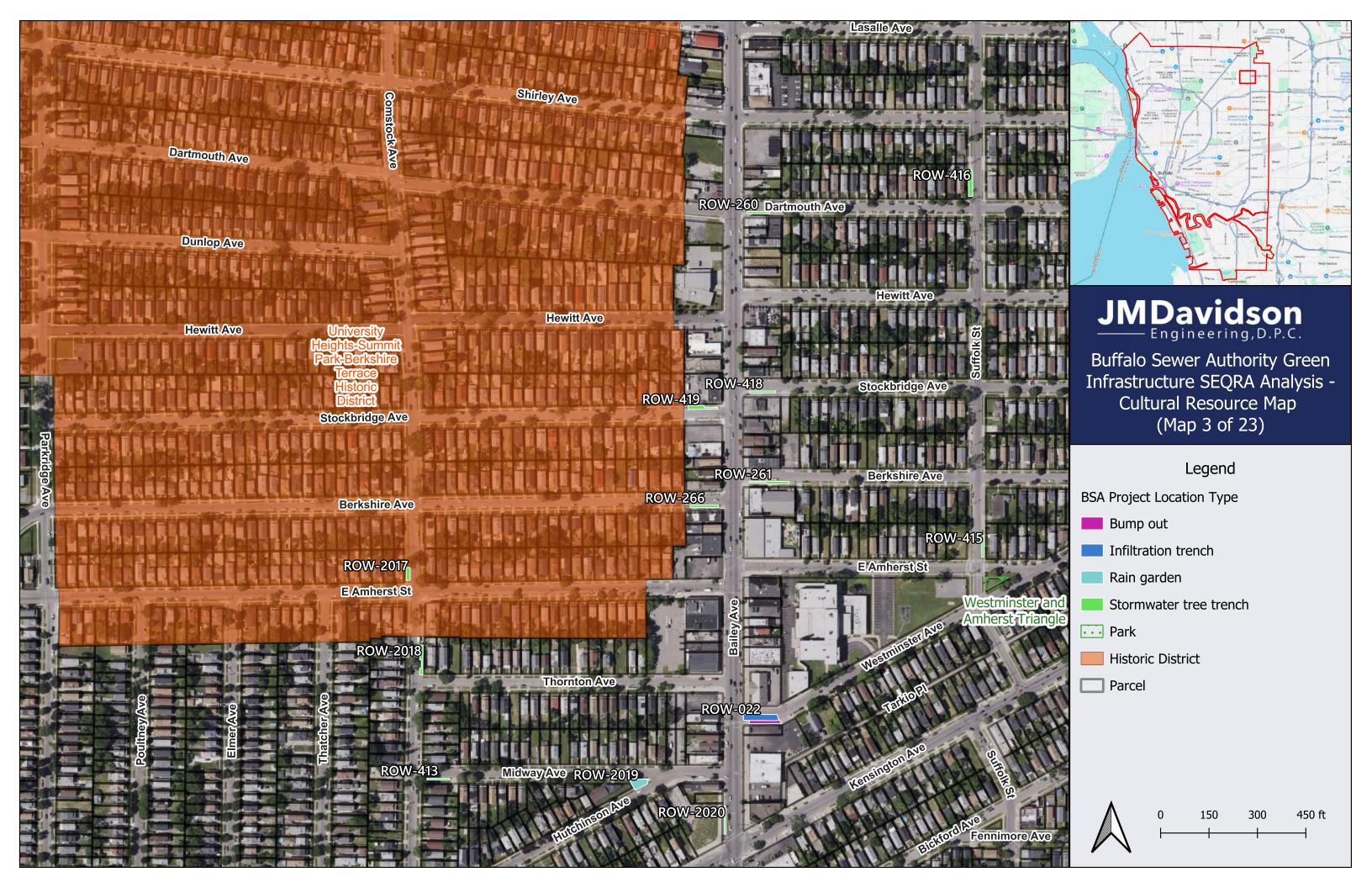
Derek Rohde

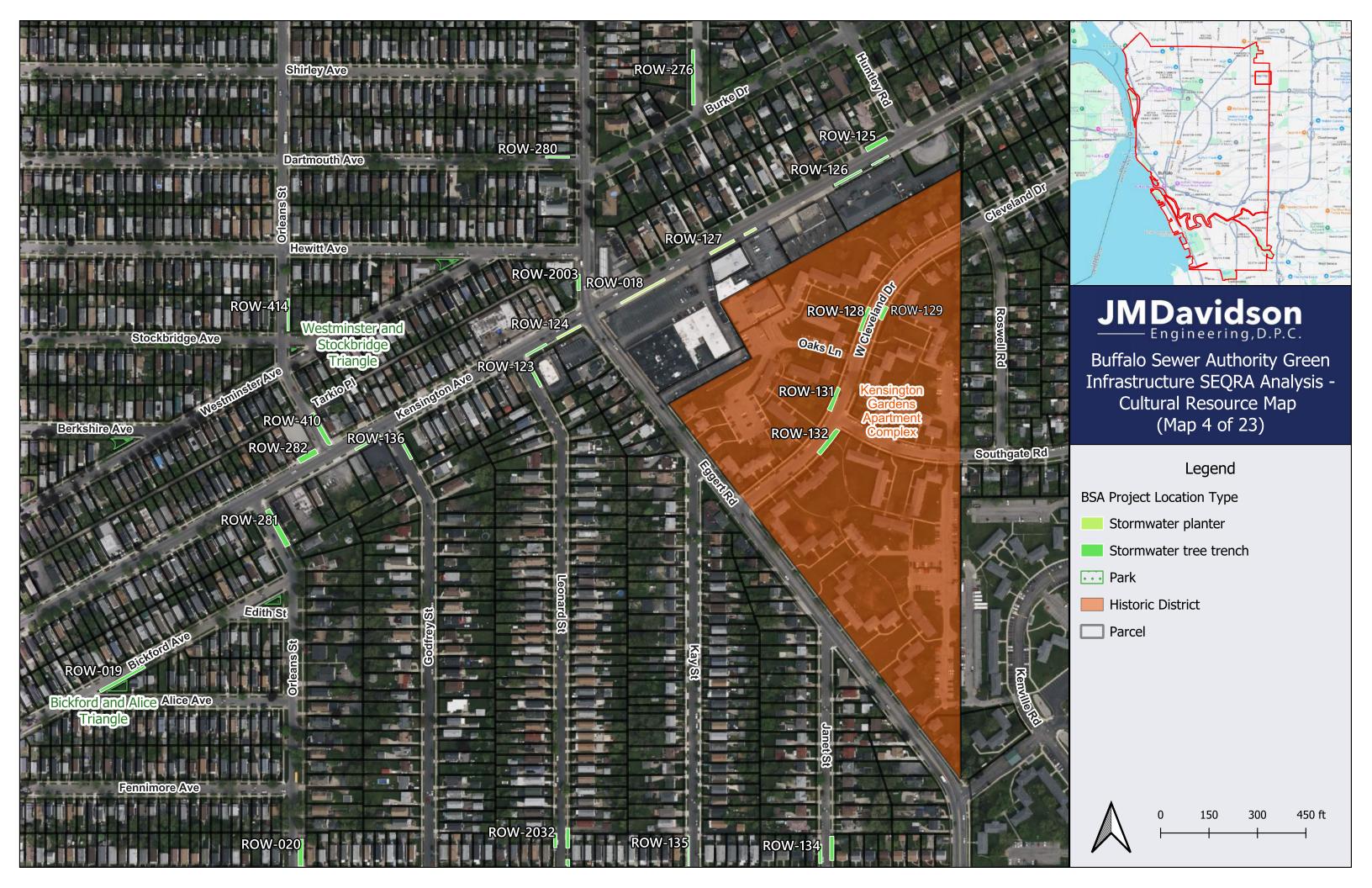
Historic Site Restoration Coordinator

518-275-5745 | Derek.Rohde@parks.ny.gov

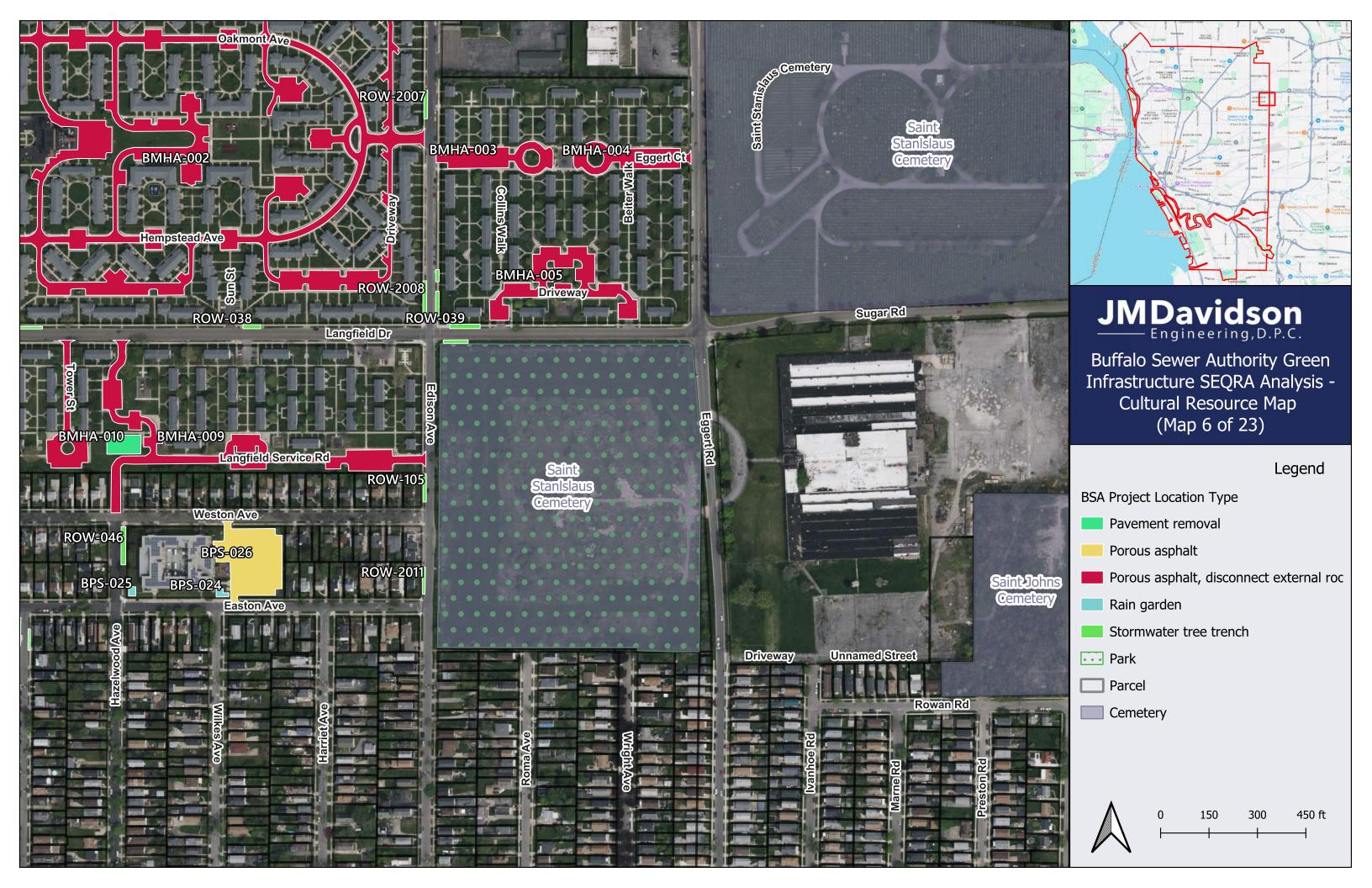


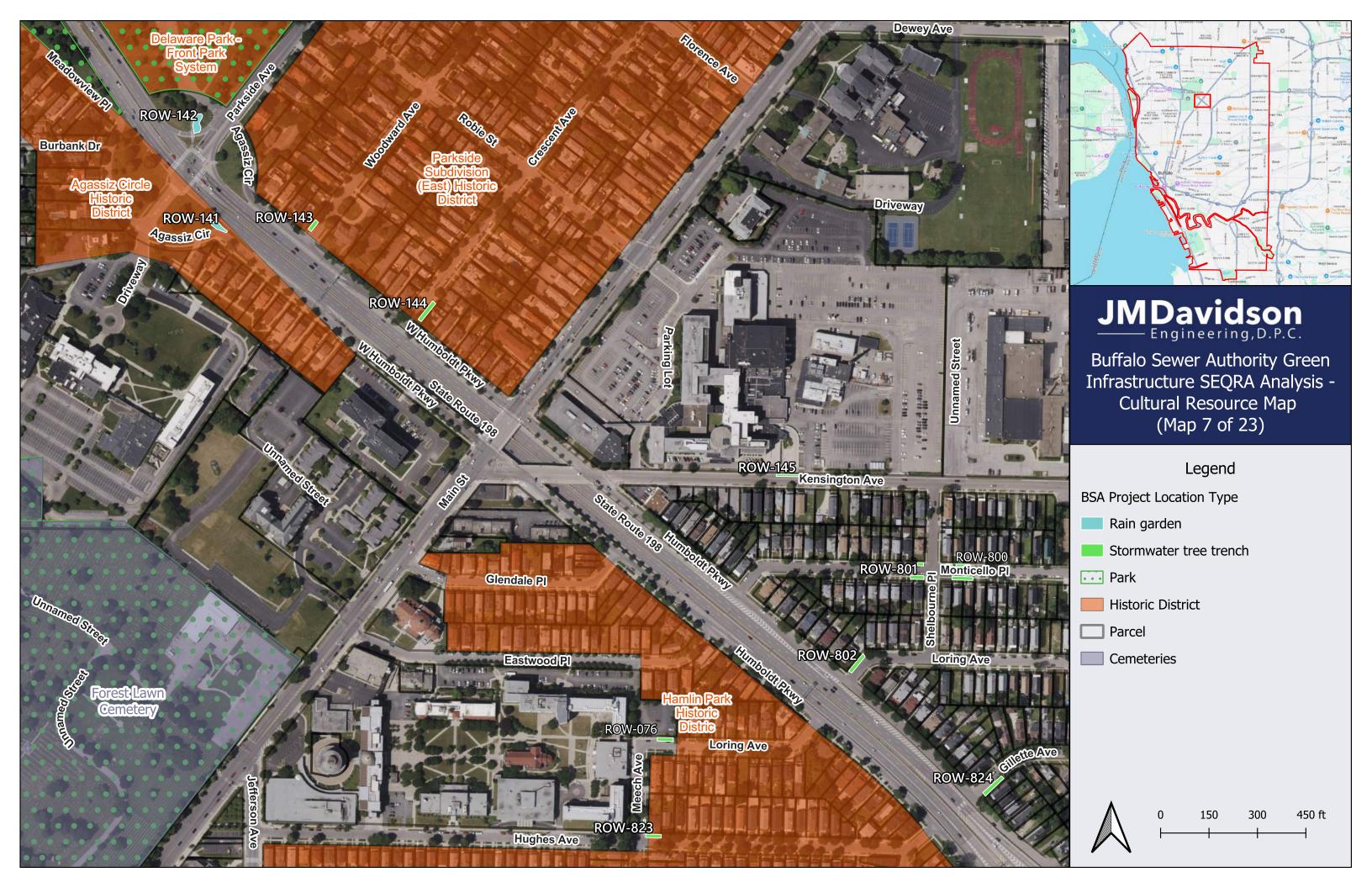


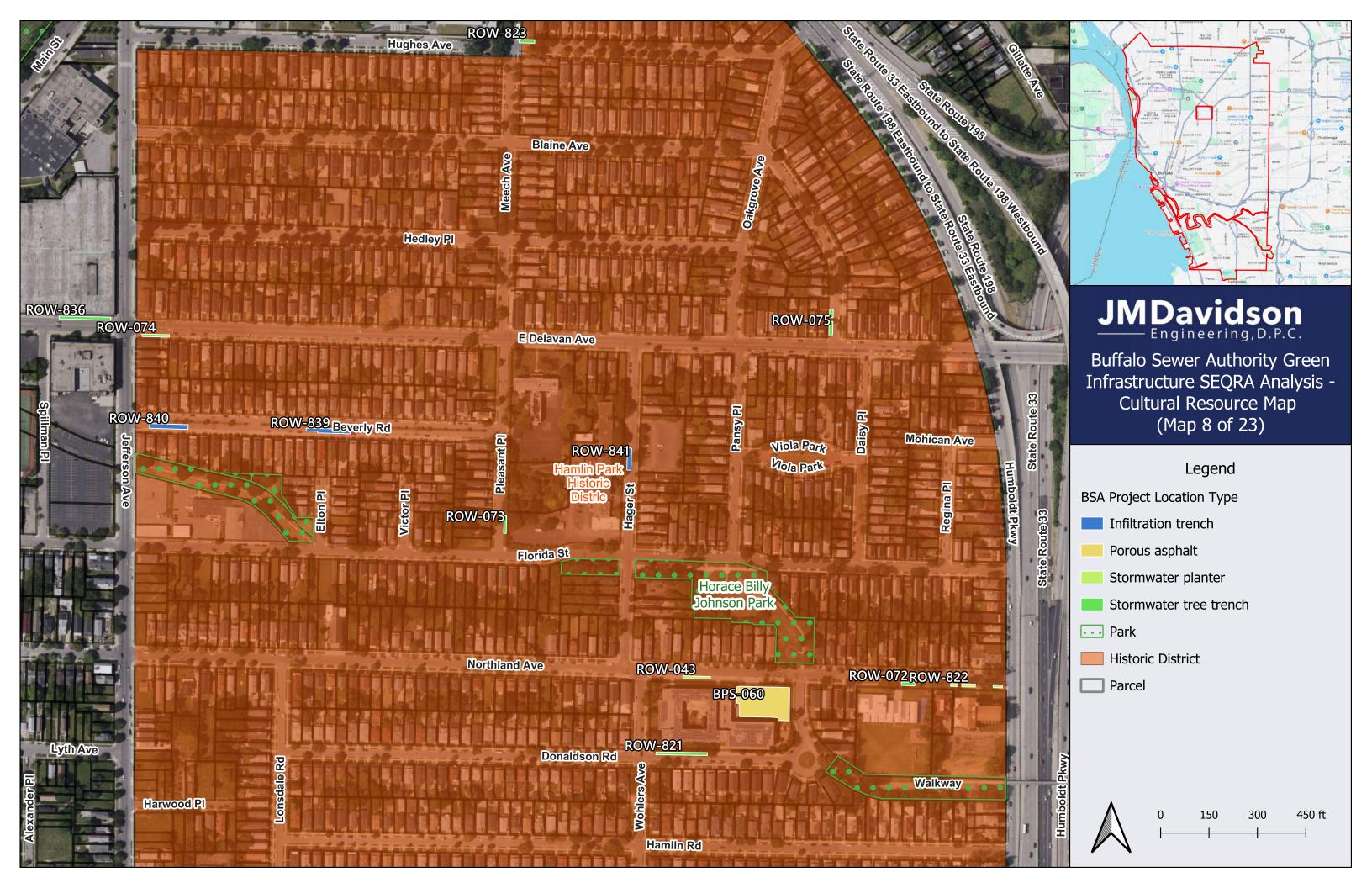


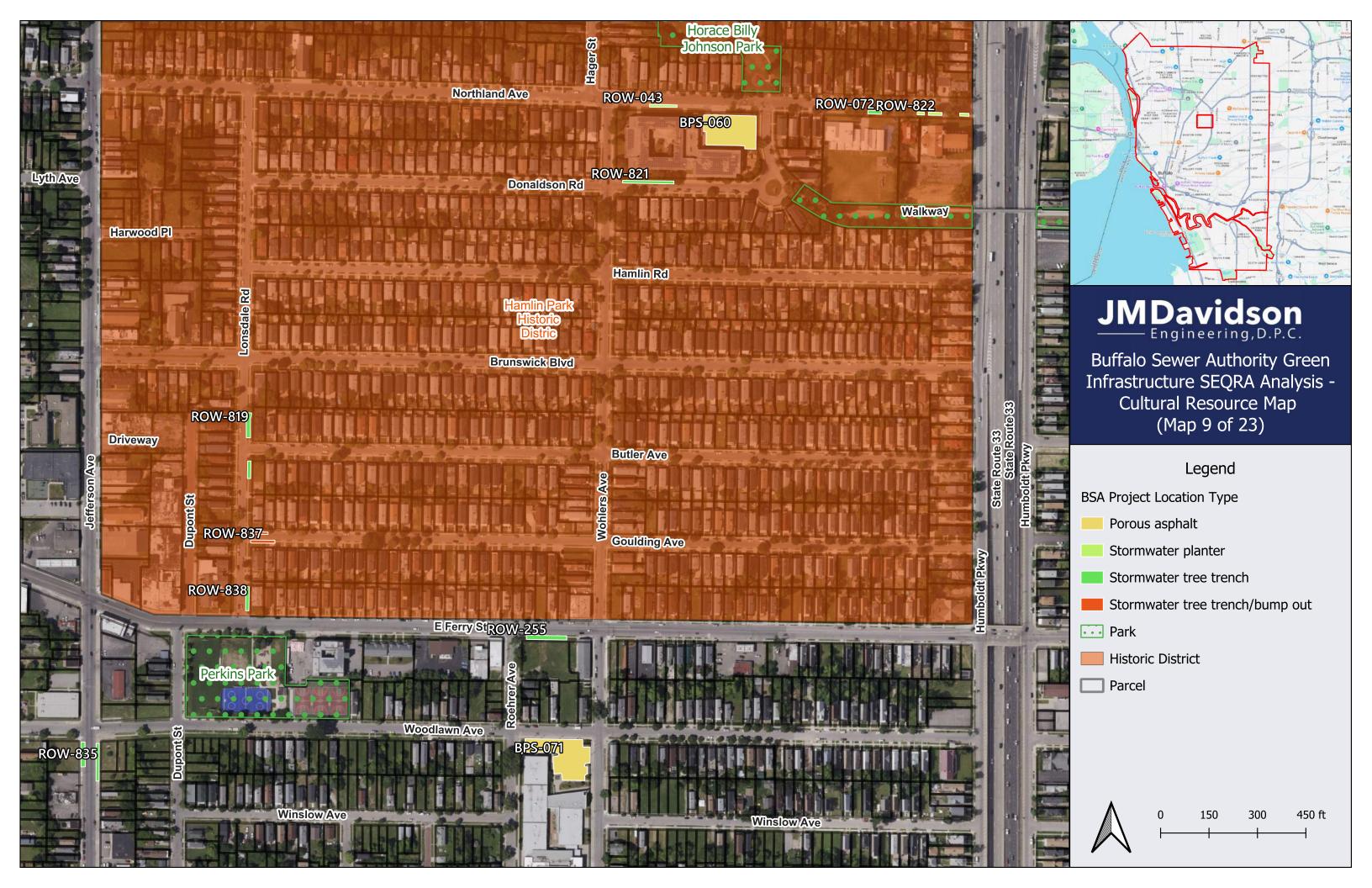




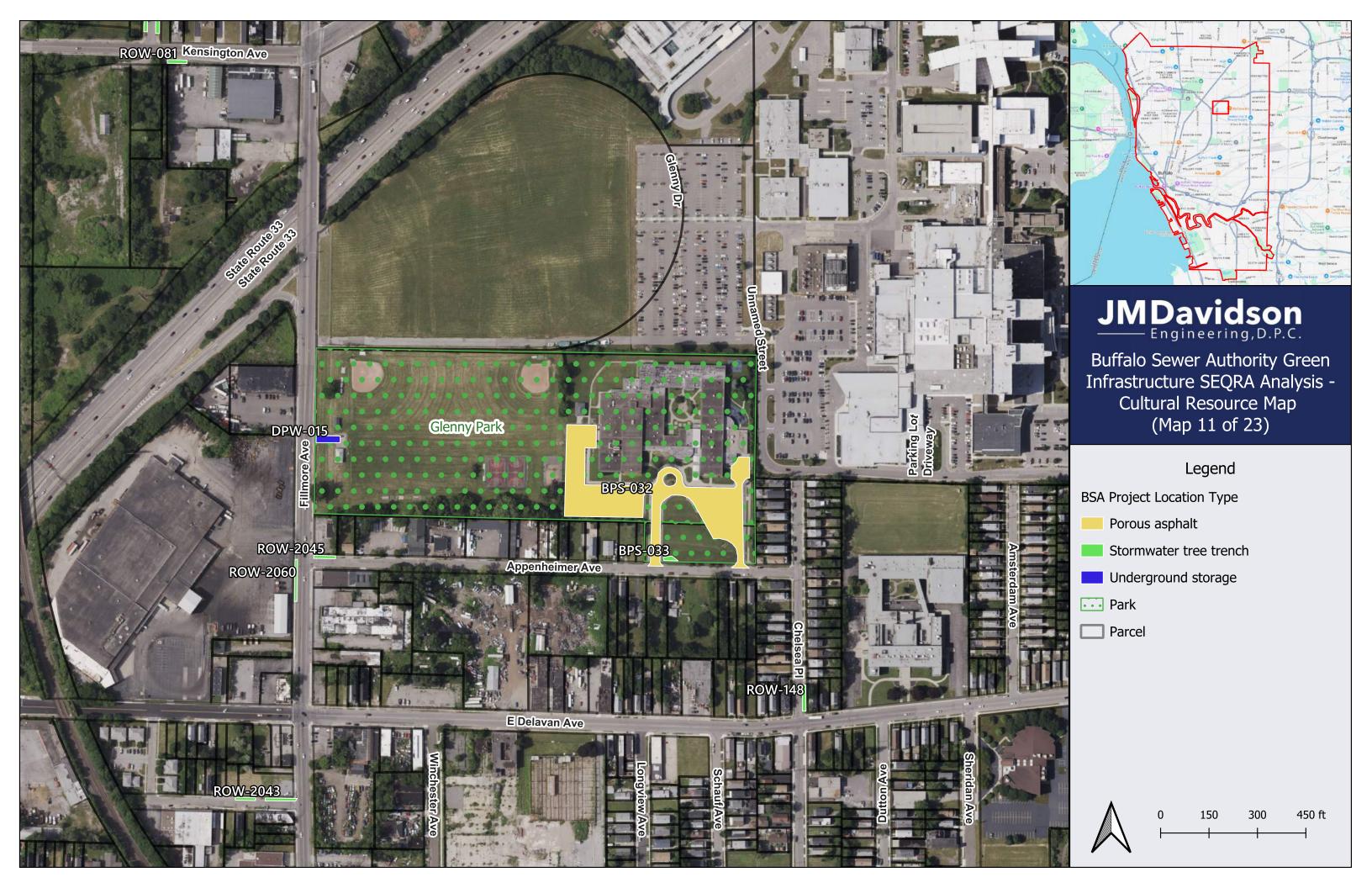


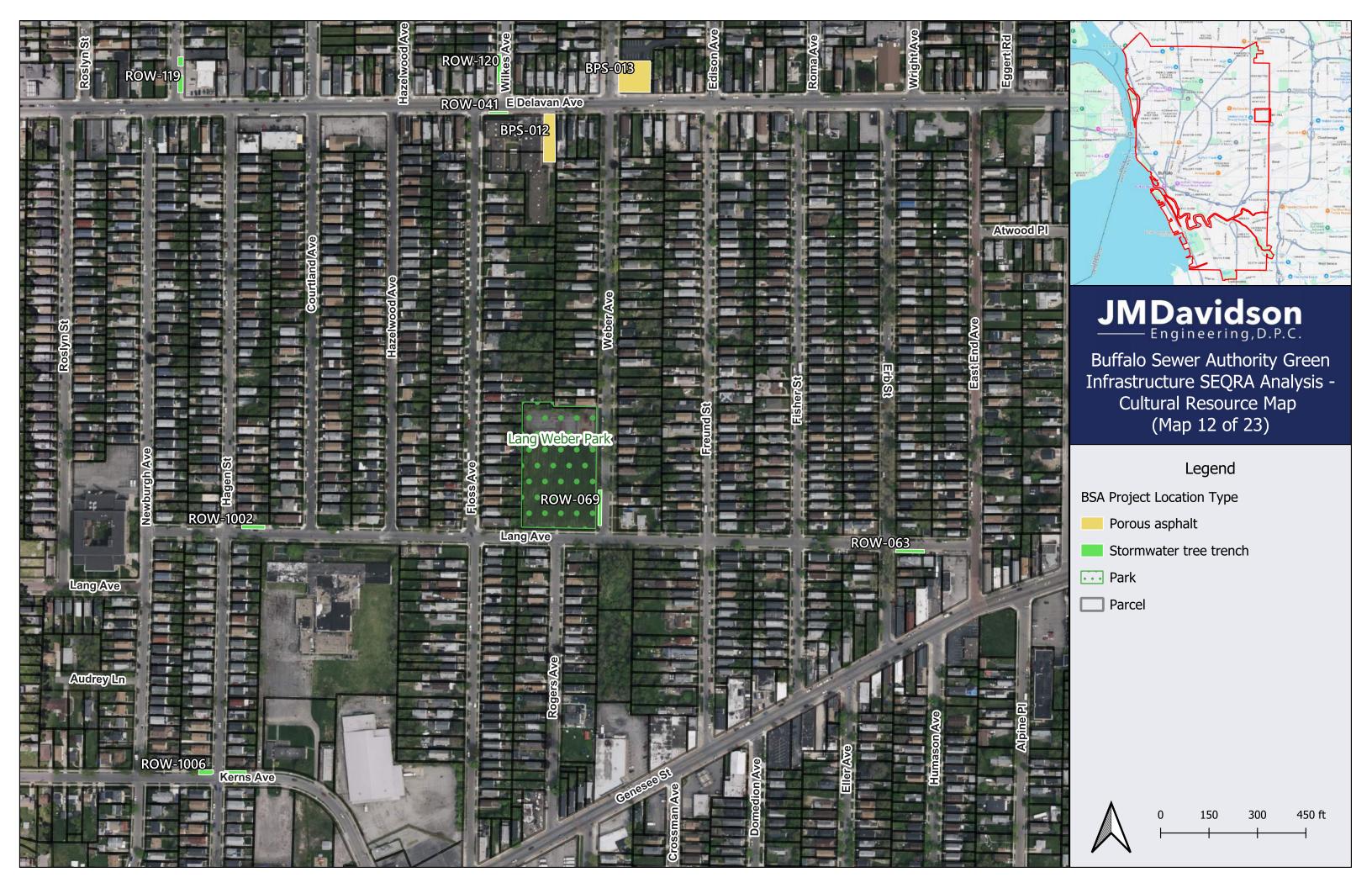


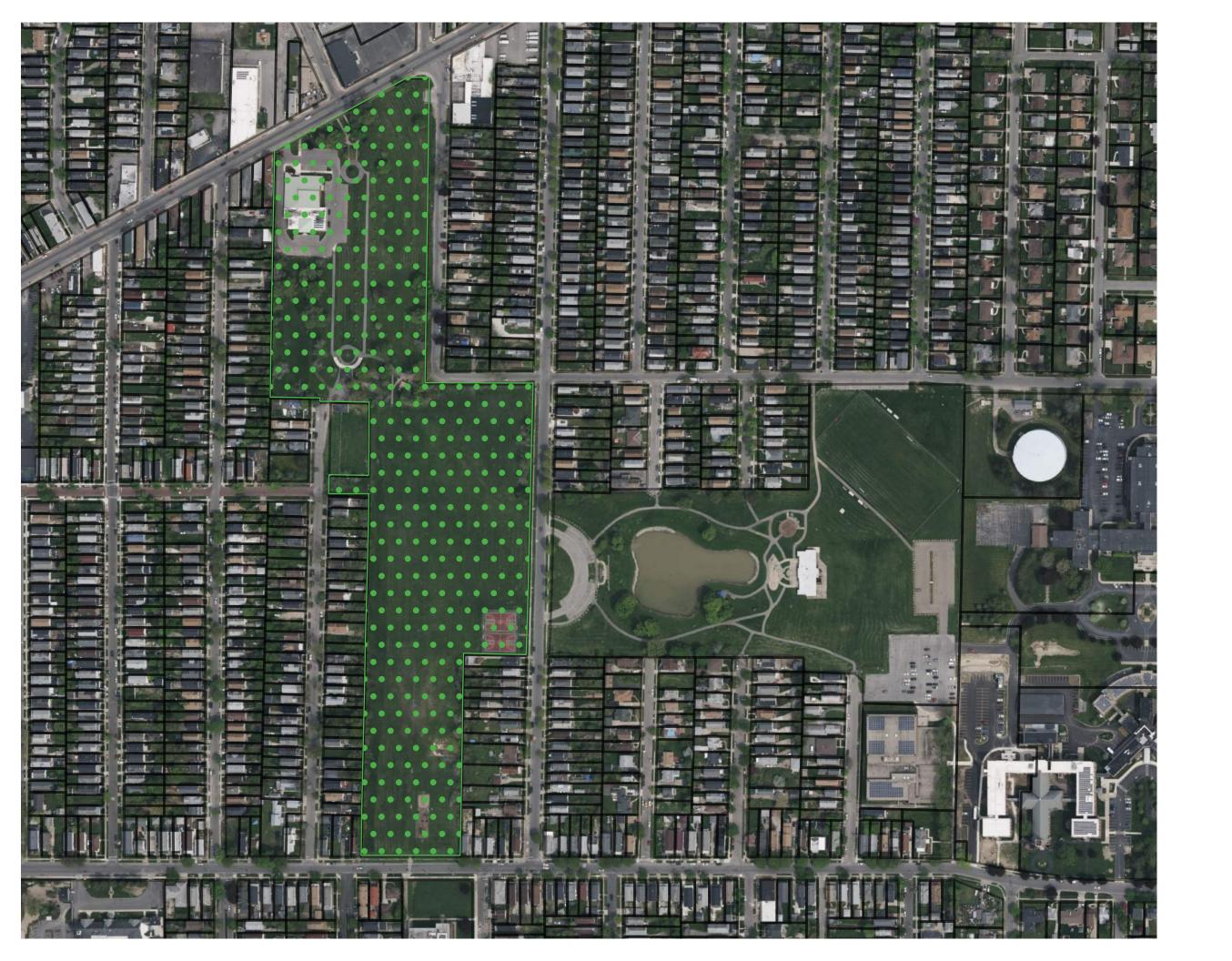


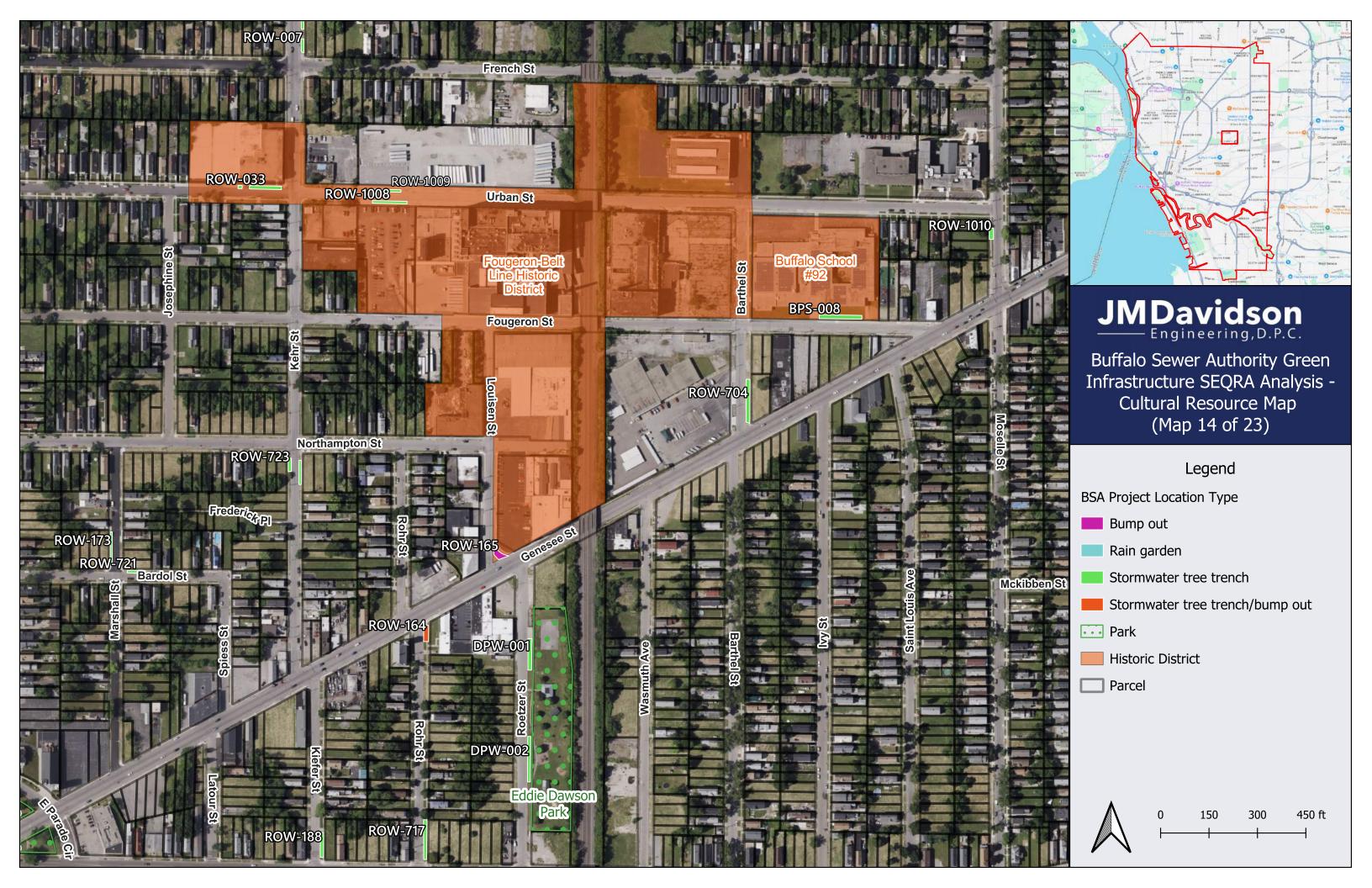




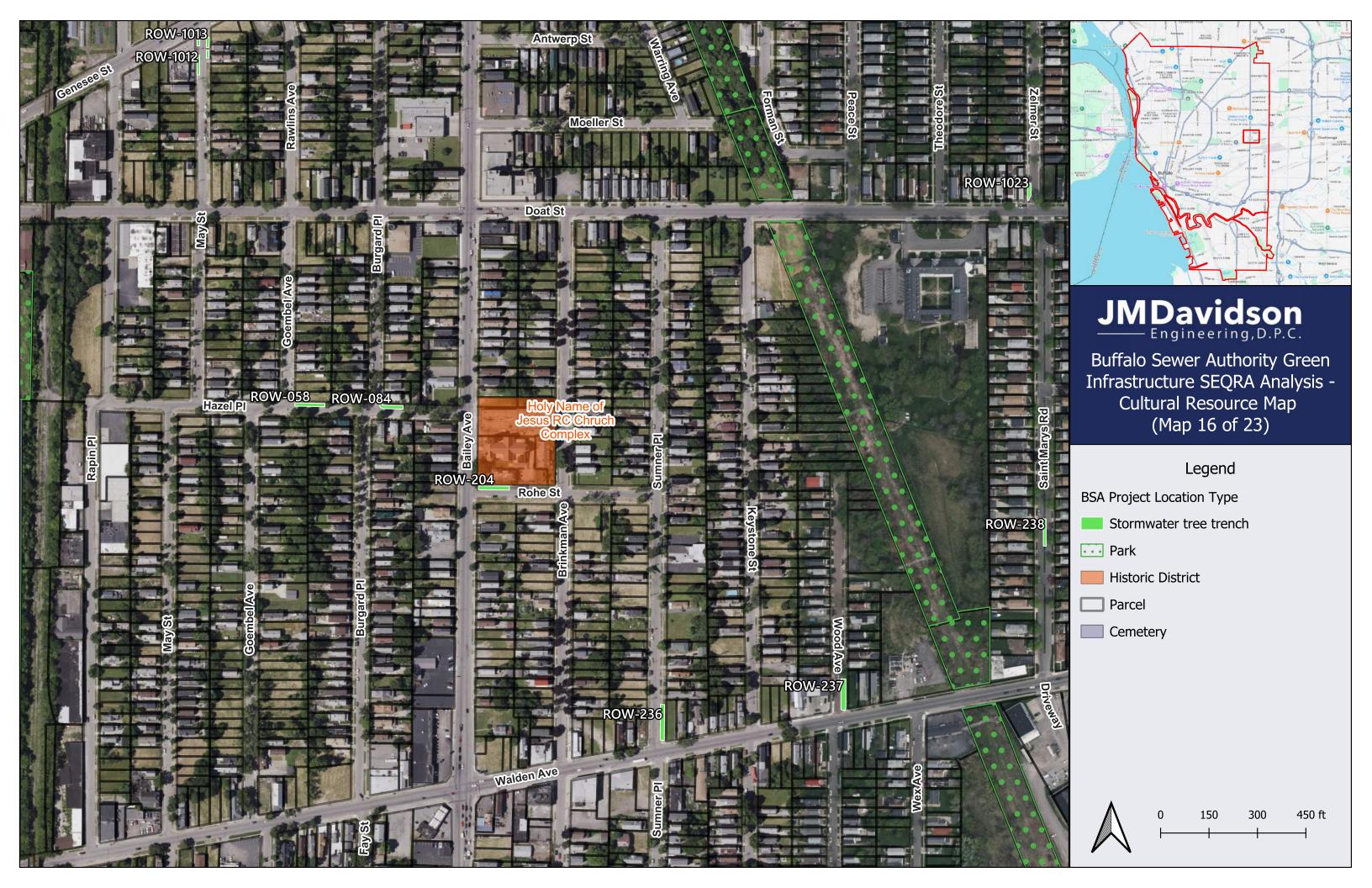


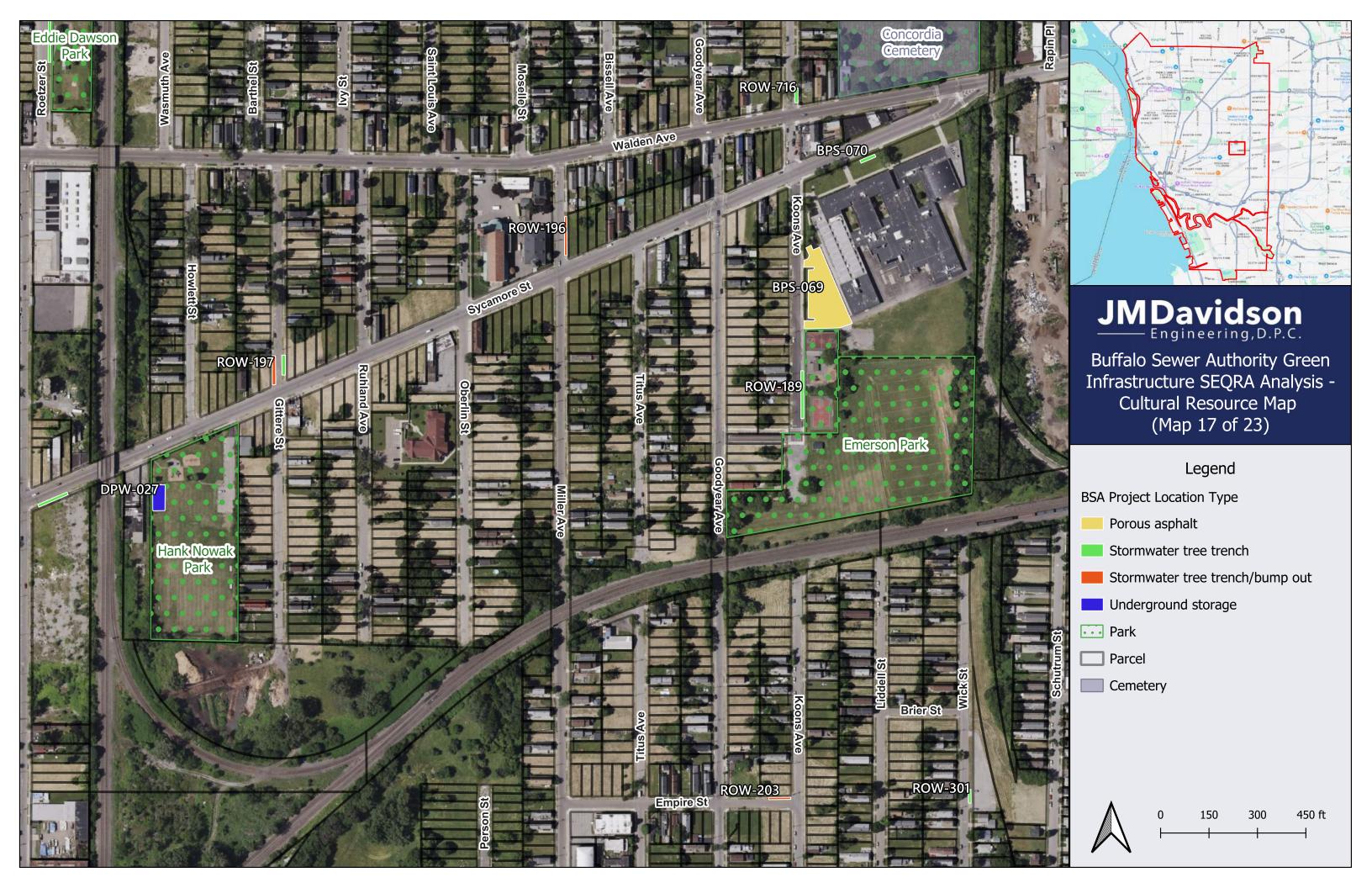


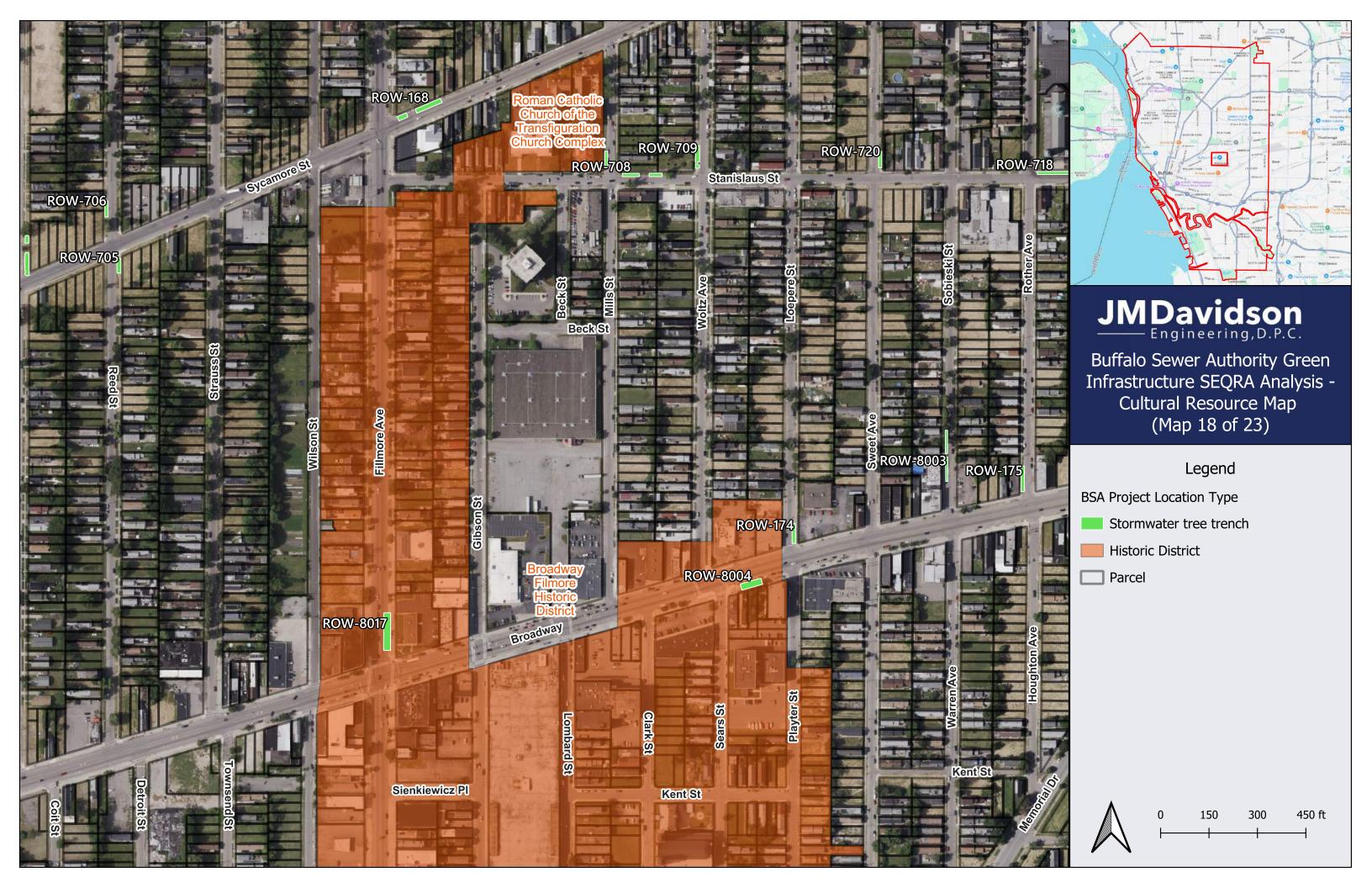




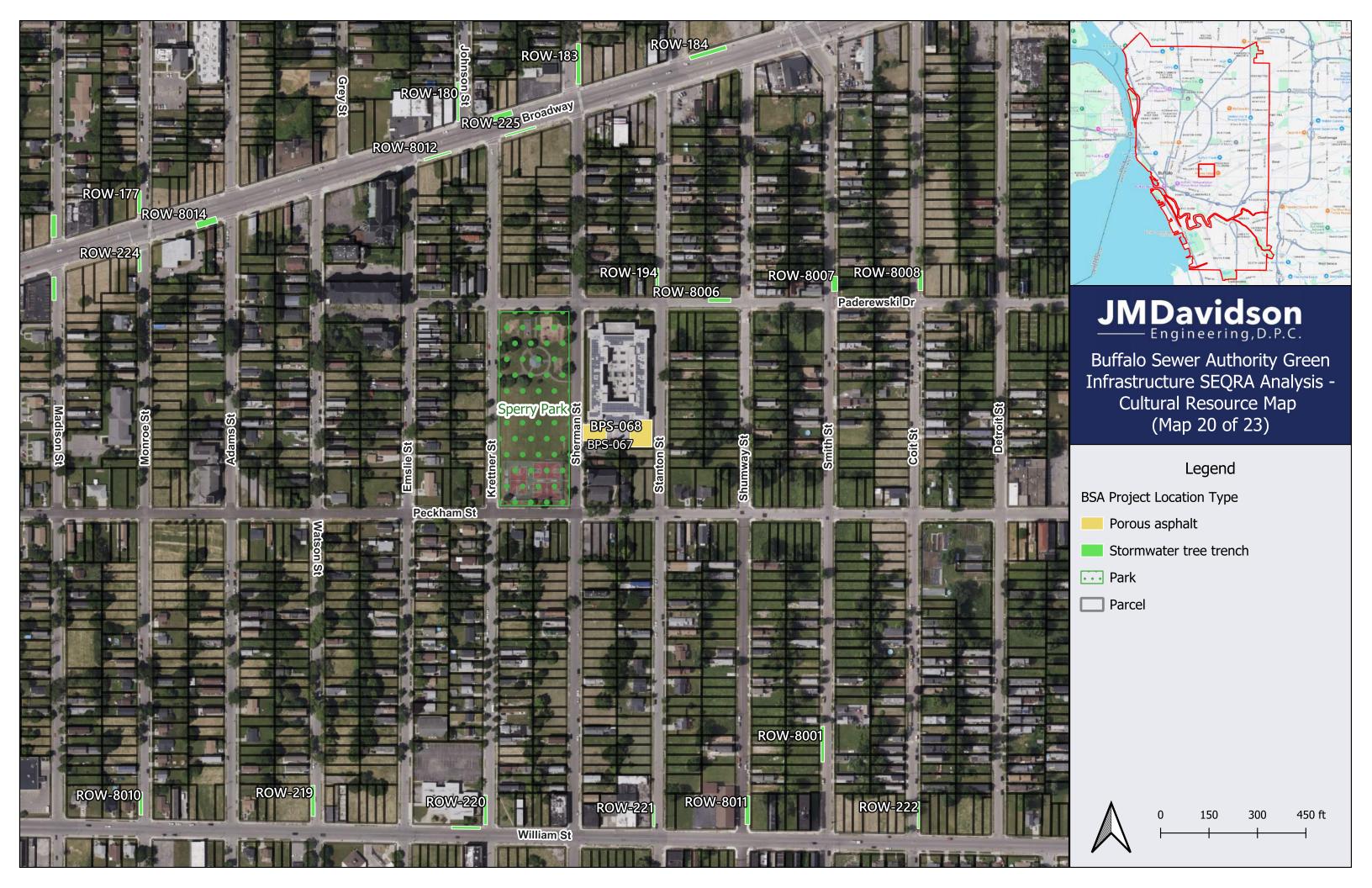


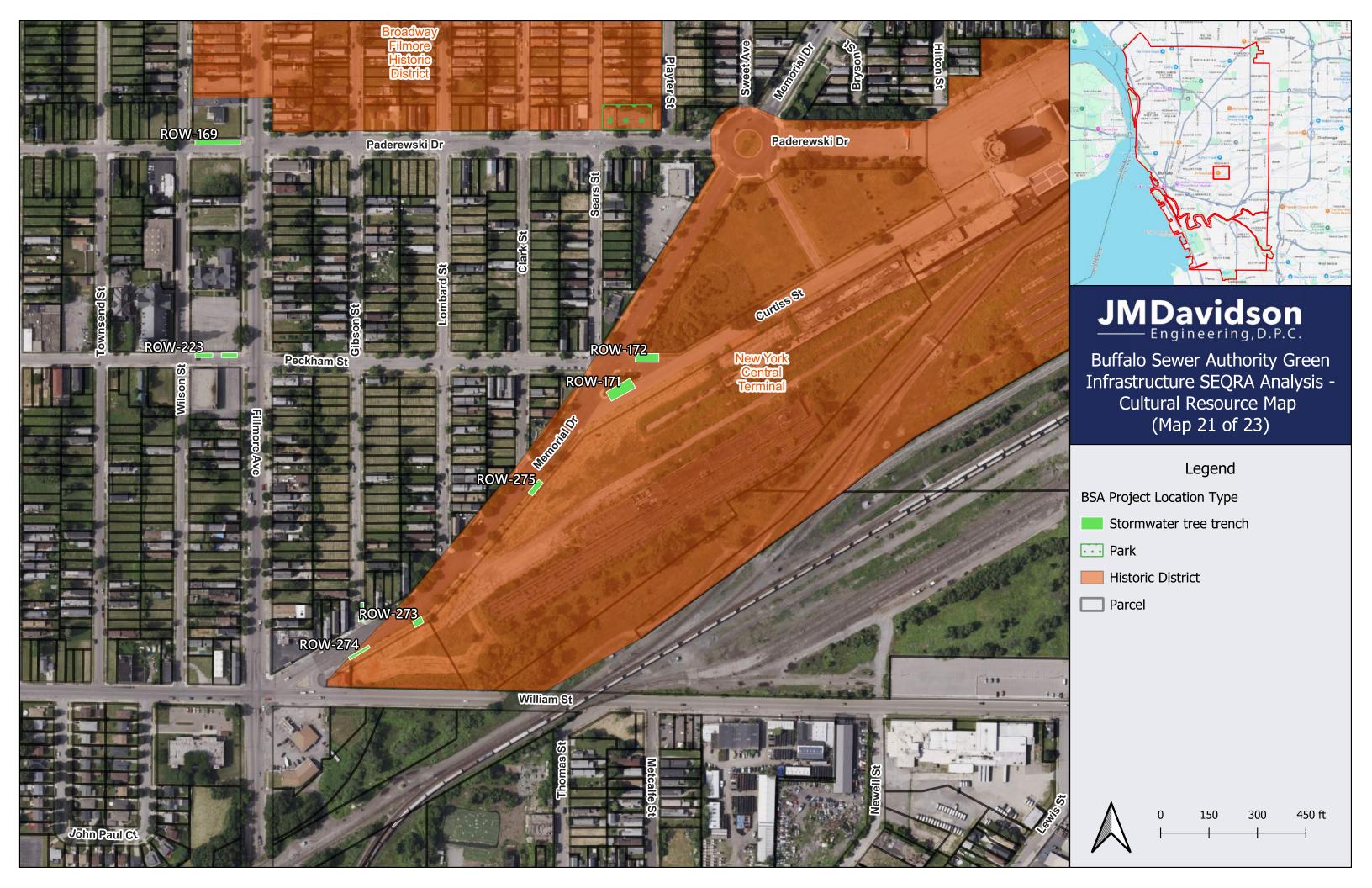


















United States Department of the Interior



FISH AND WILDLIFE SERVICE

New York Ecological Services Field Office 3817 Luker Road Cortland, NY 13045-9385 Phone: (607) 753-9334 Fax: (607) 753-9699

Email Address: <u>fw5es_nyfo@fws.gov</u>

In Reply Refer To: 07/03/2025 18:43:37 UTC

Project code: 2025-0117812

Project Name: Buffalo Sewer Authority Green Infrastructure Stormwater Management Practices

for CSO Basins

Federal Nexus: yes

Federal Action Agency (if applicable): Buffalo city

Subject: Record of project representative's no effect determination for 'Buffalo Sewer

Authority Green Infrastructure Stormwater Management Practices for CSO Basins'

Dear Angela Gardner:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on July 03, 2025, for 'Buffalo Sewer Authority Green Infrastructure Stormwater Management Practices for CSO Basins' (here forward, Project). This project has been assigned Project Code 2025-0117812 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.

Determination for the Northern Long-Eared Bat and/or Tricolored Bat

Based upon your IPaC submission and a standing analysis, your project has reached the following effect determinations:

SpeciesListing StatusDeterminationNorthern Long-eared Bat (Myotis septentrionalis)EndangeredNo effect

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Salamander Mussel Simpsonaias ambiqua Proposed Endangered

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

Next Steps

Project code: 2025-0117812

If there are no updates on listed species, no further consultation/coordination for this project is required with respect to the species covered by this key. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the New York Ecological Services Field Office and reference Project Code 2025-0117812 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Buffalo Sewer Authority Green Infrastructure Stormwater Management Practices for CSO Basins

2. Description

The following description was provided for the project 'Buffalo Sewer Authority Green Infrastructure Stormwater Management Practices for CSO Basins':

The Buffalo Sewer Authority (BSA) Long Term Control Plan (LTCP) is a comprehensive, multi-year strategy designed to address combined sewer overflows (CSOs) into local waterways during rain and snowmelt events. BSA currently has 52 permitted CSO outfalls that are regulated under the Clean Water Act and permitted under the New York State issued State Pollutant Discharge Elimination System (SPDES) permit (Permit No. 002 8410). The LTCP was developed to comply with the U.S. Environmental Protection Agency's (EPA) national CSP Control Policy and revised water quality standards from CSOs.

BSA launched the Rain Check Program in 2015, a dedicated green infrastructure program which documents BSA's strategies for addressing goals outlined in the LTCP. As part of this program, six priority CSO basins were identified for green infrastructure improvements within Buffalo's East Side, downtown, and South Buffalo neighborhoods. For this phase of the Rain Check Program, BSA is focusing on GI practices in CSO Basins 6, 26, 27, 33, and 53. These areas were selected as these communities have high impervious surface coverage, low tree canopy, and socioeconomic vulnerability as they are historically underserved areas and can disproportionately experience pollution and flooding. These practices include GI retrofits on public property and within public right-of-way (ROW). A total of 558 GI locations have been identified throughout the basins.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.910426,-78.83446966080291,14z



Project code: 2025-0117812

DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the species covered by this determination key. Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

Project code: 2025-0117812

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

- 9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*
- 10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

12. Will the action cause effects to a bridge?

Note: Covered bridges should be considered as bridges in this question.

No

13. Will the action result in effects to a culvert or tunnel at any time of year?

No

14. Are trees present within 1000 feet of the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

No

15. Does the action area intersect the northern long-eared bat species list area?

Automatically answered

Yes

16. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

Project code: 2025-0117812

17. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

18. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

Automatically answered

No

19. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency. Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

Automatically answered

No

20. Do you have any documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

07/03/2025 18:43:37 UTC

Project code: 2025-0117812

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Angela Gardner

Address: 935 Sheridan Drive, Suite 120 Address Line 2: JM Davidson Engineering, DPC

City: Tonawanda

State: NY Zip: 14150

Email agardner@jmdavidsoneng.com

Phone: 7162441315

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Buffalo city



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New York Ecological Services Field Office 3817 Luker Road Cortland, NY 13045-9385 Phone: (607) 753-9334 Fax: (607) 753-9699

Email Address: <u>fw5es_nyfo@fws.gov</u>

In Reply Refer To: 07/03/2025 18:34:30 UTC

Project Code: 2025-0117812

Project Name: Buffalo Sewer Authority Green Infrastructure Stormwater Management Practices

for CSO Basins

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

Project code: 2025-0117812

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the**

header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

• Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office 3817 Luker Road Cortland, NY 13045-9385 (607) 753-9334

PROJECT SUMMARY

Project code: 2025-0117812

Project Code: 2025-0117812

Project Name: Buffalo Sewer Authority Green Infrastructure Stormwater Management

Practices for CSO Basins

Project Type: Stormwater Discharge with NPDES Permit

Project Description: The Buffalo Sewer Authority (BSA) Long Term Control Plan (LTCP) is a

comprehensive, multi-year strategy designed to address combined sewer overflows (CSOs) into local waterways during rain and snowmelt events. BSA currently has 52 permitted CSO outfalls that are regulated under the Clean Water Act and permitted under the New York State issued State Pollutant Discharge Elimination System (SPDES) permit (Permit No. 002 8410). The LTCP was developed to comply with the U.S. Environmental Protection Agency's (EPA) national CSP Control Policy and revised water

quality standards from CSOs.

BSA launched the Rain Check Program in 2015, a dedicated green infrastructure program which documents BSA's strategies for addressing goals outlined in the LTCP. As part of this program, six priority CSO basins were identified for green infrastructure improvements within Buffalo's East Side, downtown, and South Buffalo neighborhoods. For this phase of the Rain Check Program, BSA is focusing on GI practices in CSO Basins 6, 26, 27, 33, and 53. These areas were selected as these communities have high impervious surface coverage, low tree canopy, and socioeconomic vulnerability as they are historically underserved areas and can disproportionately experience pollution and flooding. These practices include GI retrofits on public property and within public right-of-way (ROW). A total of 558 GI locations have been identified throughout the basins.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.910426,-78.83446966080291,14z

Project code: 2025-0117812 07/03/2025 18:34:30 UTC



Counties: Erie County, New York

ENDANGERED SPECIES ACT SPECIES

Project code: 2025-0117812

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2025-0117812 07/03/2025 18:34:30 UTC

MAMMALS

NAME STATUS

Northern Long-eared Bat Myotis septentrionalis

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

CLAMS

NAME STATUS

Salamander Mussel Simpsonaias ambigua

Proposed

There is **proposed** critical habitat for this species. Your location does not overlap the critical

Endangered

habitat.

Species profile: https://ecos.fws.gov/ecp/species/6208

INSECTS

NAME STATUS

Monarch Butterfly Danaus plexippus

Proposed

There is ${\bf proposed}$ critical habitat for this species. Your location does not overlap the critical

Threatened

habitat.

Species profile: https://ecos.fws.gov/ecp/species/9743

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2025-0117812 07/03/2025 18:34:30 UTC

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Angela Gardner

Address: 935 Sheridan Drive, Suite 120 Address Line 2: JM Davidson Engineering, DPC

City: Tonawanda

State: NY Zip: 14150

Email agardner@jmdavidsoneng.com

Phone: 7162441315



Phone: 716.453.1646

July 8, 2025

NYSDEC Region 9 Department of Permits Buffalo, New York 14209

Sent via email to dep.r9@dec.ny.gov

BUFFALO SEWER AUTHORITY SUBJECT:

GREEN INFRASTRUCTURE PROJECT

CITY OF BUFFALO, ERIE COUNTY, NEW YORK

Dear Region 9 DEP,

JM Davidson Engineering, D.P.C. (JMD) teaming with Stantec Consulting Services, Inc (Stantec), are assisting Buffalo Sewer Authority (BSA) in an environmental review of their Green Infrastructure Project that is a part of BSA's Long Term Control Plan (LTCP). The project involves retrofitting green infrastructure (GI) stormwater practices into public rights-of-ways (ROW), six parks, and 19 public schools and school property to reduce runoff into the combined sewer system with the goal of reducing combined sewer outfall (CSO) discharge during storm events. A total of 558 GI practice locations is proposed in a project area approximately 8,977 acres in size. Attachment 1 has a general location map of the project area and GI practice locations. Construction is anticipated to be completed by 2028.

The GI practices that are proposed to be implemented are summarized in Table 1. These practices were selected and designed based on the NYS Stormwater Management Design Manual and their suitability for the sites within the City of Buffalo.

Table 1: Proposed GI Practice Summary

GI Practice	Number to be Installed	Total Area	
		(Acres)	
Stormwater Tree Trench	453	8.99	
Porous Asphalt Pavement	31	25.78	
Rain Garden (Bio Retention Basin)	17	0.36	
Underground Storage	10	0.65	
Pavement Removal	2	0.26	
Stormwater Tree Trench-Bump Out Combination	11	0.20	
Stormwater Planter	22	0.48	
Infiltration Trench	7	0.21	
Bump Out	5	0.09	

GI Practice	Number to be Installed	Total Area	
		(Acres)	
Total	558	37.02	

A review of the information in the Environmental Resource Mapper indicates that peregrine falcon, a state endangered bird, is found in three different locations in the project area. The locations are:

- University of Buffalo MacKay Heating Plant
- Statler City Building
- Central Terminal

There are 32 GI practice locations within the 0.5 mile buffer of these locations. Table 2 summarizes the information about these GI practice locations. **Attachment 2** contains maps of these locations. A zip file containing the GI practices in these buffers is included as an electronic attachment to the email transmitting this information.

Table 2: GI Practices within 0.5-mile of Peregrine Falcon Nest/Location

GI Practice ID	Nearest Parcel Address	GI Practice Type Proposed	Distance from the Center of Buffer	Area (Square Feet)
DPW-006	Lincoln Park	Stormwater Tree Tench	2,566 ft	719
DPW-007	Lincoln Park	Stormwater Tree Tench	2,360 ft	638
ROW-161	612 Howard St	Stormwater Tree Tench	2,483 ft	1,614
ROW-163	82 Peck St	Stormwater Tree Tench	2,556 ft	896
ROW-169	612 Filmore Ave	Stormwater Tree Tench	2,418 ft	2,174
ROW-171	111 Memorial Dr	Stormwater Tree Tench	1,388 ft	2,875
ROW-172	Peckham St & Curtiss St	Stormwater Tree Tench	1,264 ft	1,870
ROW-174	1094 Broadway St	Stormwater Tree Tench	1,955 ft	653
ROW-175	1164 Broadway St	Stormwater Tree Tench	1,865 ft	803
ROW-199	60 Ashley St	Stormwater Tree Trench/Bump Out	1,837 ft	789

GI Practice ID	Nearest Parcel Address	GI Practice Type Proposed	Distance from the Center of Buffer	Area (Square Feet)
ROW-200	66 Grimes St	Stormwater Tree Trench/Bump Out	1,591 ft	1,125
ROW-201	65 Grimes St	Stormwater Tree Trench/Bump Out	1,511 ft	760
ROW-202	96 Grimes St	Stormwater Tree Trench/Bump Out	1,862 ft	734
ROW-223	389 Peckham St	Stormwater Tree Trench	2,503 ft	1,436
ROW-231	49 E Ferry St	Stormwater Tree Trench	2655 ft	796
ROW-232	47 E Ferry St	Stormwater Tree Trench	2,502 ft	750
ROW-258	479 Lisbon Ave	Stormwater Tree Trench	2,267 ft	753
ROW-259	3365 Bailey Ave	Stormwater Tree Trench	1,661 ft	643
ROW-260	3251 Bailey Ave	Stormwater Tree Trench	2,585 ft	475
ROW-263	193 Lisbon Ave	Stormwater Tree Trench	1,214 ft	410
ROW-265	192 Lisbon Ave	Stormwater Tree Trench	1,123 ft	950
ROW-272	34 Memorial Dr	Stormwater Tree Trench	2,436 ft	632
ROW-273	59 Memorial Dr	Stormwater Tree Trench	2,320 ft	644
ROW-274	20 Memorial Dr	Stormwater Tree Trench	2,520 ft	698
ROW-275	114 Memorial Dr	Stormwater Tree Trench	1,776 ft	910
ROW-292	1270 Broadway St	Stormwater Tree Trench	2,132 ft	1,368
ROW-293	1261 Broadway St	Stormwater Tree Trench	2,043 ft	718
ROW-302	81 Ashley St	Stormwater Tree Trench	1,890 ft	459

GI Practice ID	Nearest Parcel Address	GI Practice Type Proposed	Distance from the Center of Buffer	Area (Square Feet)
ROW-8002	384 Curtiss St	Stormwater Tree Trench	995 ft	714
ROW-8003	1132 Broadway St	Stormwater Tree Trench	1,985 ft	1,004
ROW-8004	1073 Broadway St	Stormwater Tree Trench	1,898 ft	1,320
ROW-8017	964 Broadway St	Stormwater Tree Trench	2,656 ft	2,505
Total Area of GI Practices within 0.5 miles of Peregrine Falcon Occurrence				32,837 square feet/
				0.75 acres

No work is proposed to the buildings or the streets surrounding the immediate vicinity of the building where peregrine falcons are nesting. We kindly ask for NYSDEC to review this project information and determine if the project will have an impact on the state endangered, peregrine falcon.

If you have any questions regarding this project, please contact me at (716) 244-1315.

Sincerely,

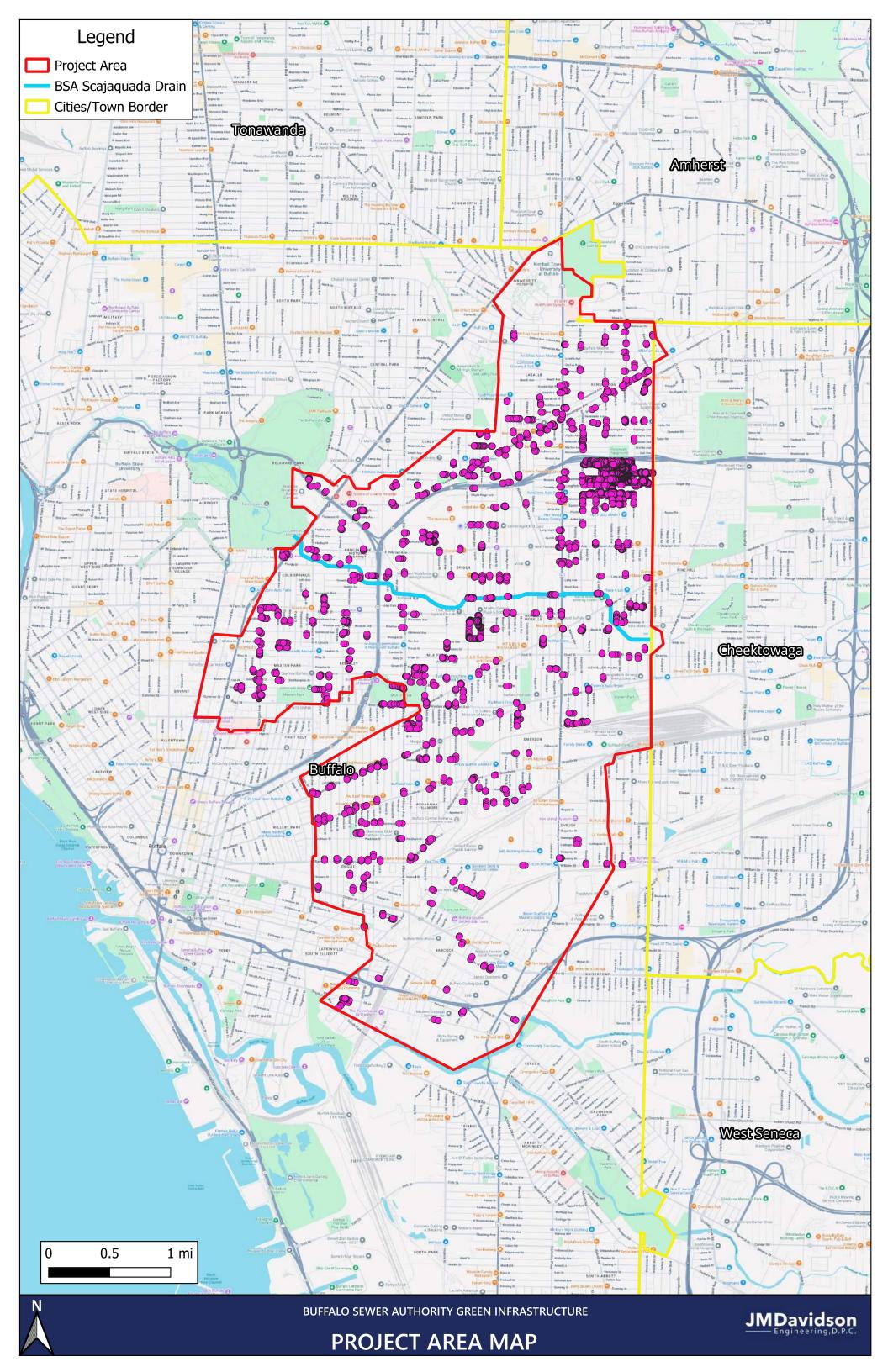
JM Davidson Engineering, D.P.C.

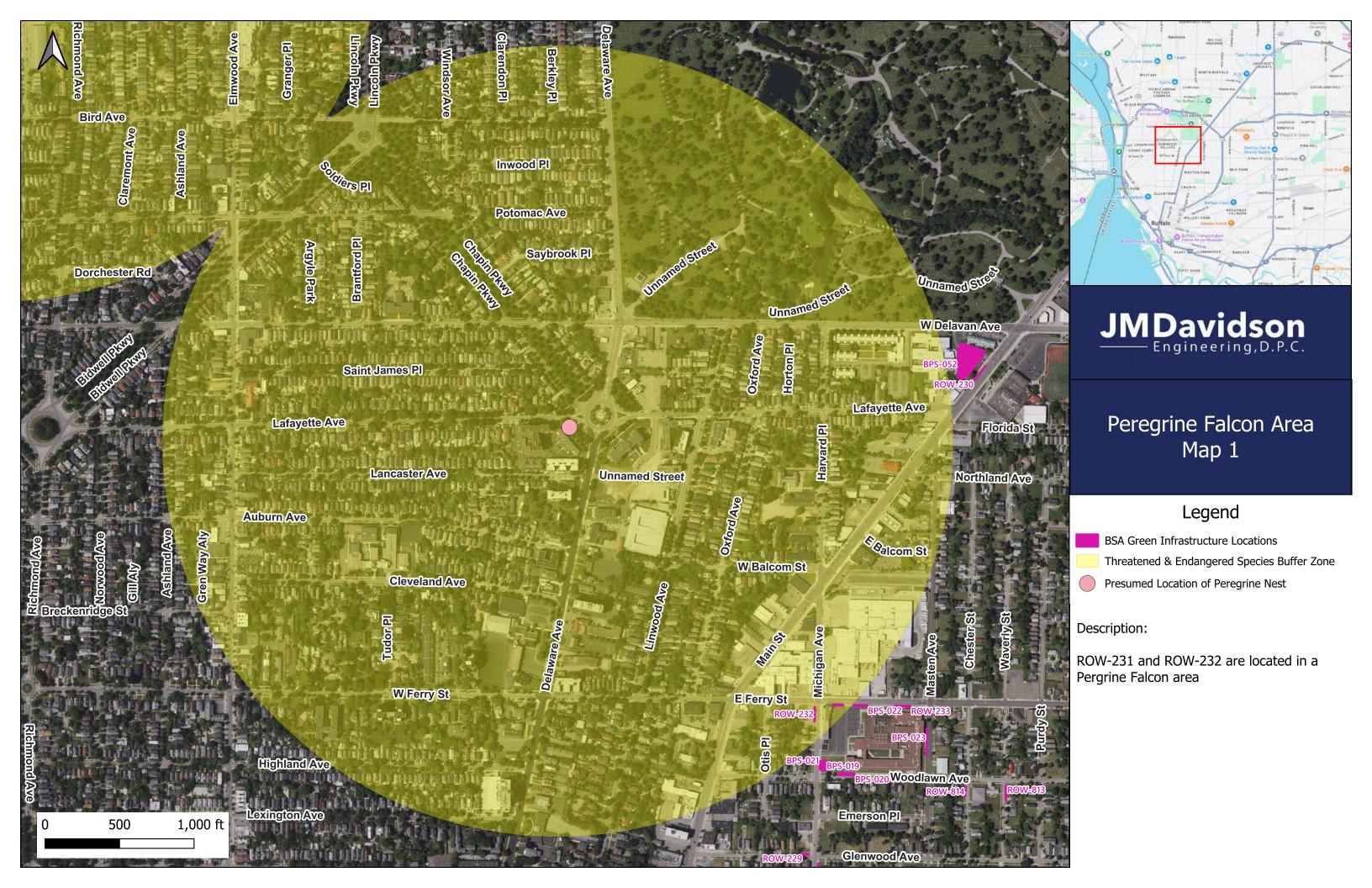
angela Gardner

Angela Gardner, Senior Biologist

Attachments (2)

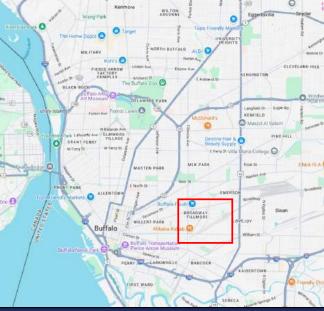
Cc: Stantec











JM Davidson Engineering, D.P.C.

Peregrine Falcon Area Map 3

Legend

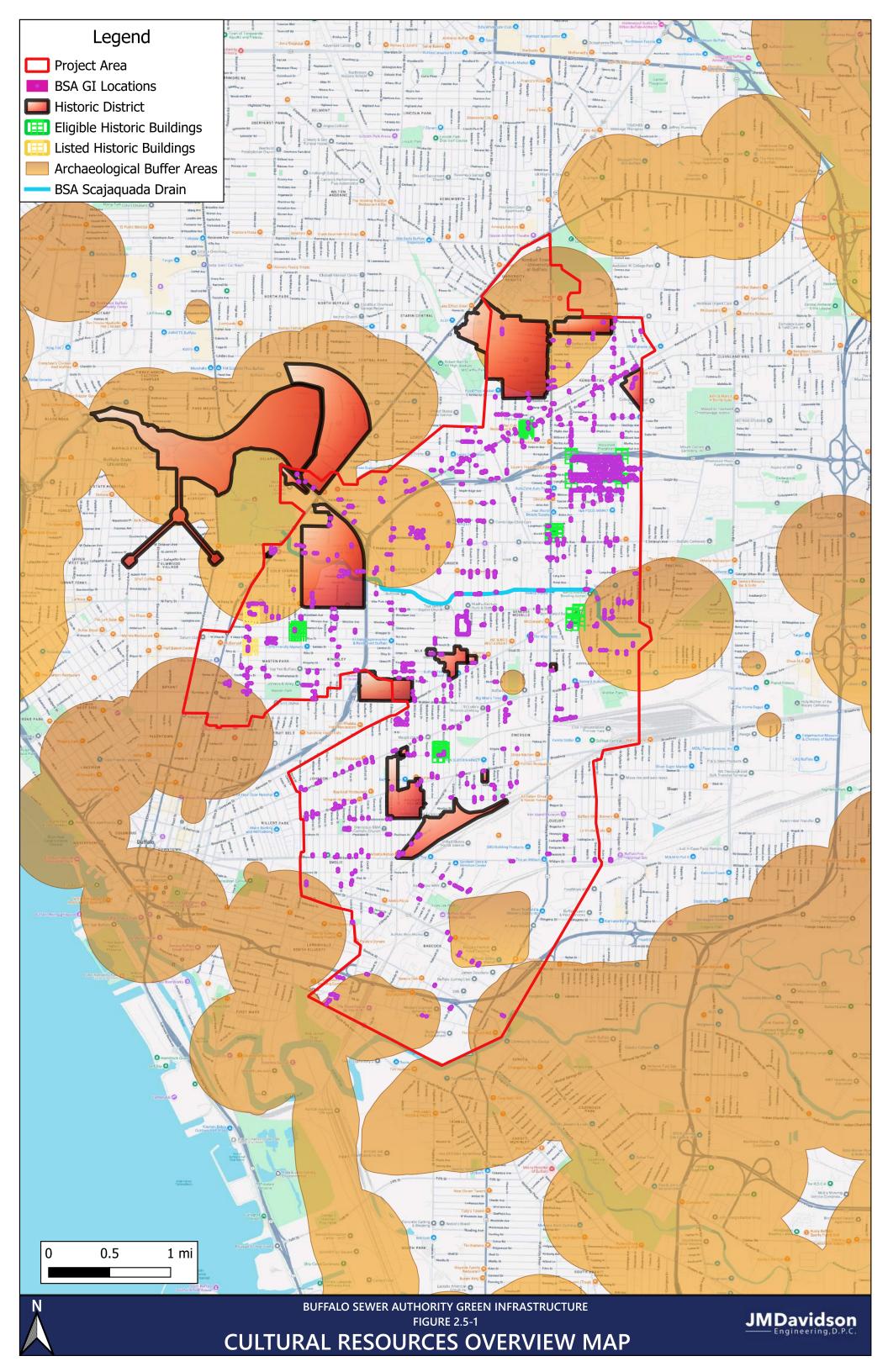
- BSA Green Infrastructure Locations
 - Threatened & Endangered Species Buffer Zone
- Presumed Location of Peregrine Nest

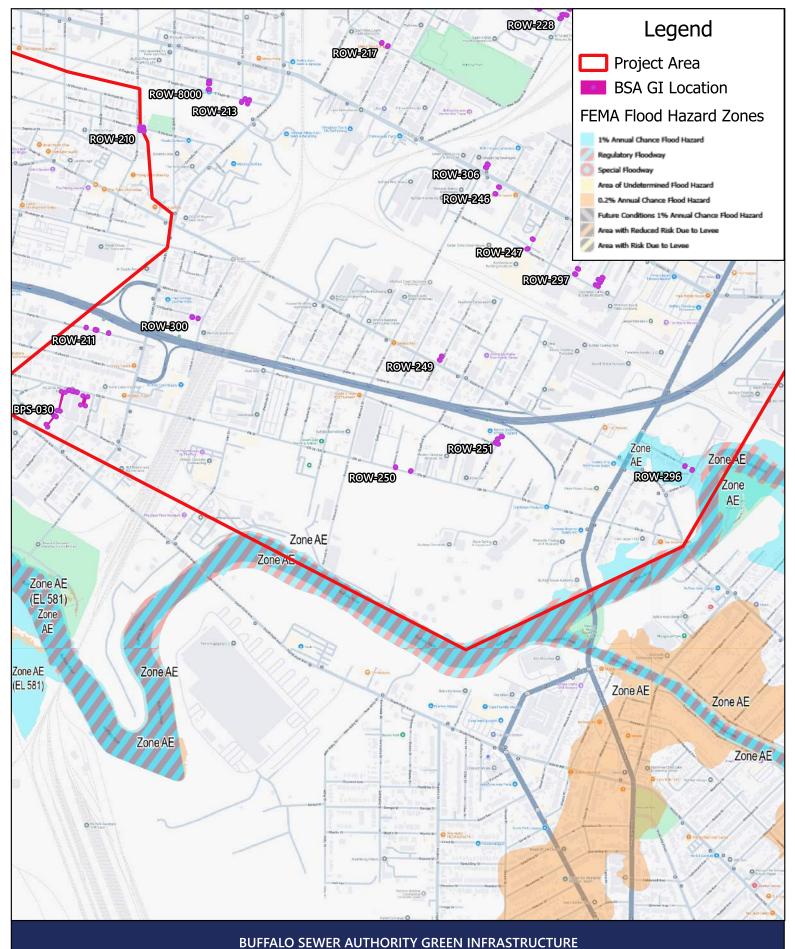
Description:

ROW-161, ROW-163, ROW-169, ROW-171, ROW-172, ROW-174, ROW-175, ROW-199, ROW-200, ROW-201, ROW-202, ROW-223, ROW-272, ROW-273, ROW-274, ROW-275, ROW-292, ROW-293, ROW-302, ROW-8002, ROW-8004, ROW-8017, DPW-006, and DPW-007 are located in a Pergrine Falcon

Appendix D: Report Section Maps



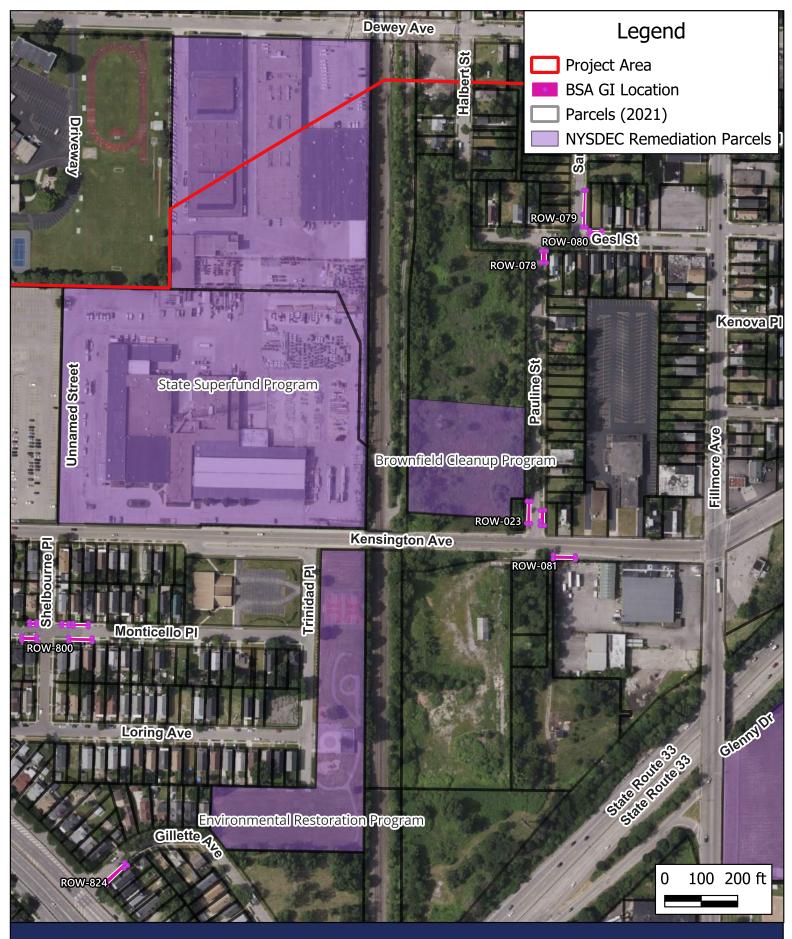








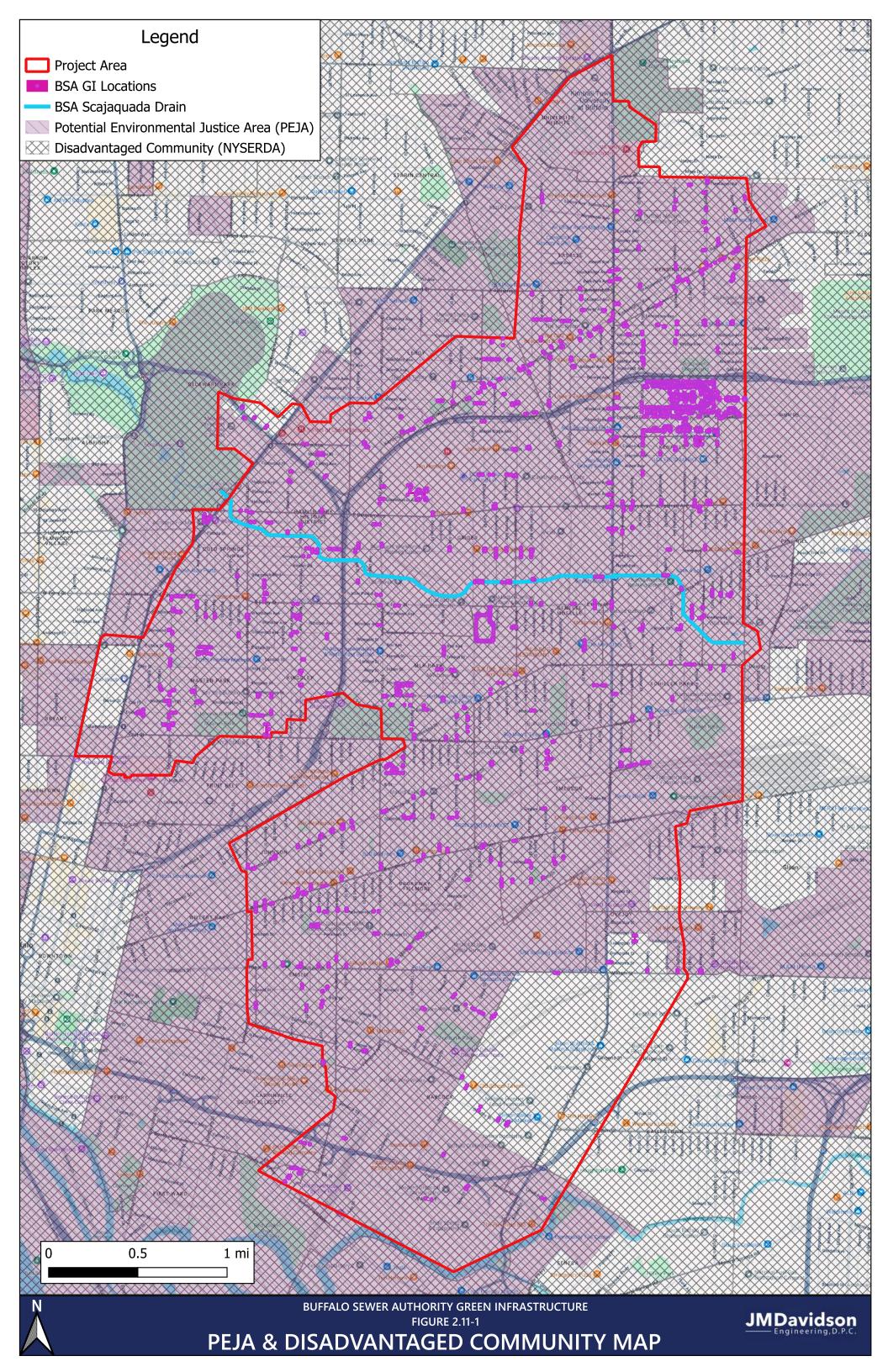


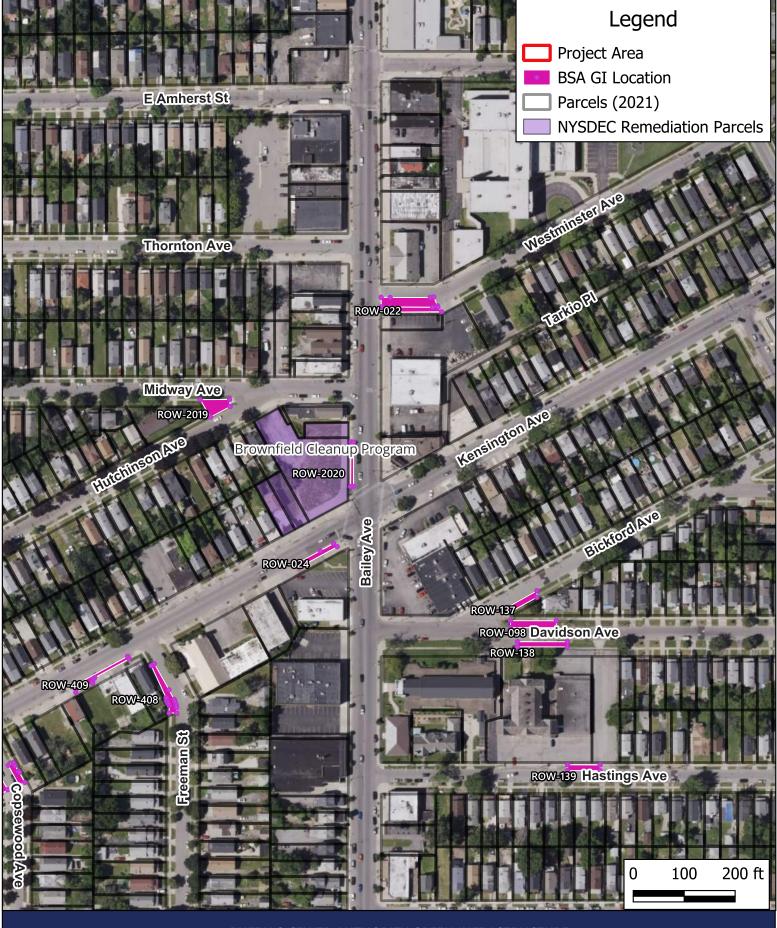
















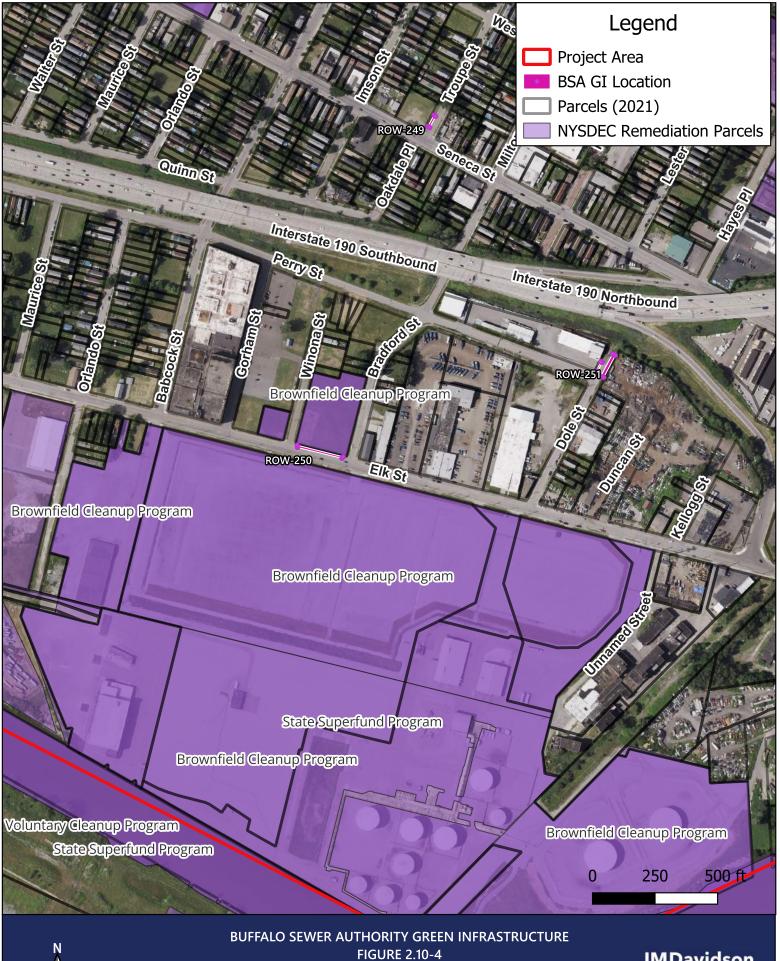






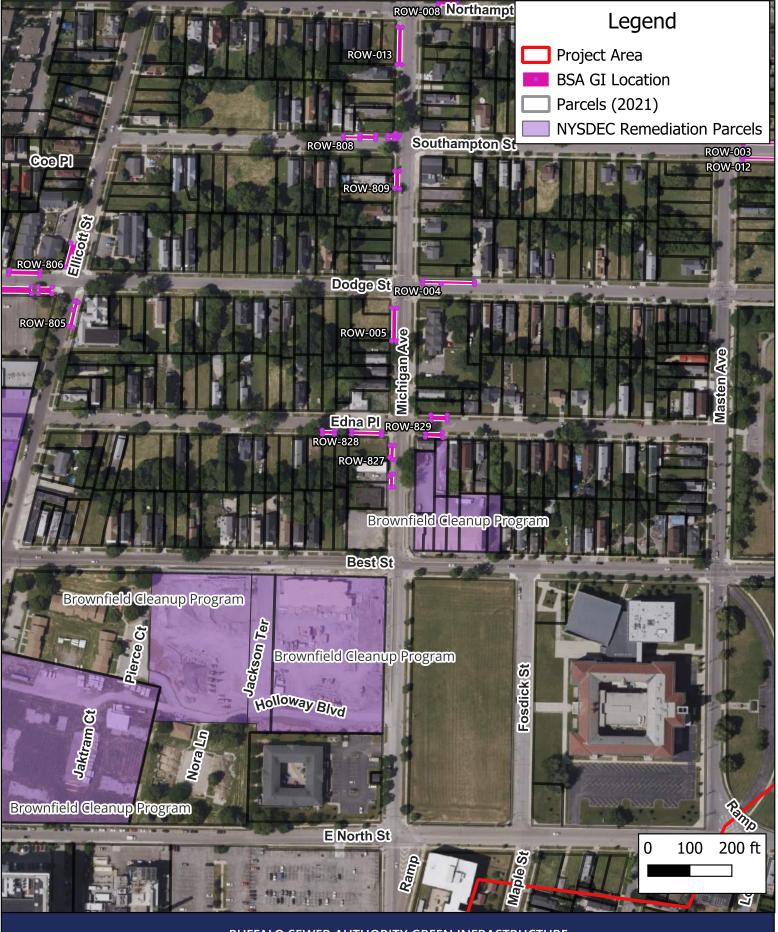
BUFFALO SEWER AUTHORITY GREEN INFRASTRUCTURE FIGURE 2.10-3













BUFFALO SEWER AUTHORITY GREEN INFRASTRUCTURE FIGURE 2.10-5



