SWCA
ENVIRONMENTAL CONSULTANTS
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January 27, 2025

Lori Capone
Conservation Coordinator
Town of Sudbury – Conservation Office
275 Old Lancaster Road
Sudbury, Massachusetts 01776

**Re: Sudbury to Hudson Reliability/Mass Central Rail Trail Project Invasive Species Management Year End Summary Report - 2025**
**MassDEP File# 301-1287**
**SWCA Project No. 83964**

Dear Lori Capone:

SWCA Environmental Consultants (SWCA) is pleased to provide you with this summary report of invasive species management activities performed in 2025 within the Sudbury to Hudson Reliability/Mass Central Rail Trail Project (the Project). This summary report includes details about the invasive species management activities that took place at this project site in 2025. This work continued the invasive species management (mitigation) efforts associated with the joint venture project between Eversource Energy and the Massachusetts Department of Conservation and Recreation. Eversource's work and responsibilities associated with the invasive species mitigation scope of work has concluded. The 2025 activities were performed under a new contract with Vanasse Hangen Brustlin, Inc. on behalf of the Massachusetts Department of Conservation and Recreation.

## PROJECT INTRODUCTION

NSTAR Electric Company d/b/a Eversource Energy (Eversource) and the Massachusetts Department of Conservation and Recreation (DCR) are building an approximately 9-mile-long 115-kilovolt underground transmission line and rail trail between Eversource's existing Sudbury substation in Sudbury, Massachusetts, and the Hudson Light & Power Company's substation in Hudson, Massachusetts. The new underground transmission line and rail trail traverses the municipalities of Sudbury, Hudson, Stow, and Marlborough, Massachusetts. Approximately 7.5 miles of the new transmission line has been installed within an inactive Massachusetts Bay Transportation Authority (MBTA) railroad right-of-way (ROW). Eversource has coordinated with the Massachusetts Department of Conservation and Recreation (DCR) to develop a two-phased project in which a portion of the Massachusetts Central Rail Trail (MCRT) will be co-located with the new transmission line. Phase I (completed) was the responsibility of Eversource and included the installation of the underground transmission line, all major earthwork, installation of the stormwater management system, construction of a 14-foot gravel road, construction/renovation of Bridges 128 and 127, site restoration, and implementation of all mitigation. Phase II (underway in 2025) is the responsibility of DCR and includes the paving of the MCRT, installation of safety plantings and other trail amenities, and long-term maintenance of the corridor.

The Town of Sudbury, per requirements of the Sudbury Wetlands Administration Bylaw, requires mitigation of adjacent upland resource areas (AURAs) through invasive species management per the Order of Conditions (OOC) issued to Eversource and DCR (MassDEP File# 301-1287). AURAs generally consist of land within 100 feet of wetland resource areas and land within 200 feet of the top of bank of perennial streams and rivers.

Prior to the commencement of each project phase, Special Condition Part I(r) of the OOC requires that invasive species presence along the corridor be mapped within and adjacent to the limit of work (LOW). Special Condition Part II specific to Phase I(b) requires submittal of an invasive species management plan to the Sudbury Conservation Commission 4 weeks prior to any land disturbance. The management plan specifically involves the removal and management of invasive species and revegetation with native species for a period of 5 years for a minimum of 3.3 acres of land within the MBTA ROW, but outside of the proposed LOW. The intent of the invasive species management efforts at the Project site is to improve wildlife habitat. The mapping and subsequent invasive species management plan were submitted to the Sudbury Conservation Commission in December 2021 to satisfy the conditions of the permit. The intent of the preconstruction mapping and data collection was to create a baseline map identifying invasive plant populations existing along the ROW prior to the commencement of construction activities.

The initial invasive species management activities were implemented at the start of construction and were completed in November 2023. Management continued in 2024 and 2025. This report documents the invasive plant management efforts conducted in Year 3 of the project (2025) and general observations of invasive species along the project corridor.

## INVASIVE SPECIES MANAGEMENT

SWCA conducted invasive plant management in Sudbury, Hudson, and Stow, Massachusetts, along the project corridor in 2023 and 2024. Management was continued in 2025 in Sudbury. All management methods were restricted to mechanical removal including hand pulling or mechanical tools such as pitch forks, shovels, and weed wrenches. All invasive plants were removed from mitigation areas and from within the LOW regardless of whether they were observed in these areas previously. Invasive plant material was either cut or uprooted and placed directly into a trailer or truck bed to be disposed of off-site. Photographs of invasive plant management can be found in Attachment A.

### 2025 Invasive Species Mitigation Area Management

SWCA began invasive species removal activities in late April to target garlic mustard (*Alliaria petiolata*). Woody invasive species removal began in mid-July and continued through August. In general, the management team moved from east to west through each segment in a linear fashion. Invasive management efforts were mapped daily. Figures summarizing where invasive species management occurred in 2025 are included in Attachment D and a table summarizing the invasive plant management activities is presented in Attachment E of this report.

Most of the invasive plants that were removed consisted of seedling woody invasive plants. Some resprouting root fragments were also found and removed, but most of the effort and time spent was dedicated to seedling removal. This is common during the second and third years following manual removal of invasive plants. Manually removing invasive stumps and roots disturbs the soil which creates ideal conditions for seeds to germinate. Glossy buckthorn (*Frangula alnus*) and Asiatic bittersweet (*Celastrus orbiculatus*) continued to be the dominant seedlings found and removed in 2025. SWCA also removed multiflora rose (*Rosa multiflora*), tree of heaven (*Ailanthus altissima*), invasive bush honeysuckle (*Lonicera* spp.), common buckthorn (*Rhamnus cathartica*), Japanese barberry (*Berberis thunbergii*), autumn olive (*Elaeagnus umbellata*), purple loosestrife (*Lythrum salicaria*), black locust

(*Robinia pseudoacacia*), Norway maple (*Acer platanoides*), phragmites (*Phragmites australis*), and burning bush (*Euonymus alatus*).

Glossy buckthorn greater than 2 inches in diameter and Norway maples 1 to 4 inches in diameter that could not be removed manually during initial efforts in 2023 were controlled using Buckthorn Baggies. SWCA invasive species technicians inspected the previously installed Buckthorn Baggies to document if management was successful. Many of these were successful in killing the buckthorn; however, some stumps were able to resprout from below the bag and grow suckering stems outside of the bag. When encountered, these individuals were re-bagged, with their suckering stems added to the existing or replacement bag to receive another year of smothering treatment. When successful management was observed, the bag was removed from the deceased plant and taken off-site.

## 2025 Follow-Up Limit of Work Management

Invasive species management within the LOW in Sudbury took place between April and August. Invasive species management progress was mapped daily as it was completed. Invasive species pressure within the LOW in 2025 was low, but some seedling and resprouting woody invasive plants were found and removed from all segments.

## Japanese Hops Management

Japanese hops (*Humulus japonicus*) is an annual herbaceous vine that is currently categorized by the Massachusetts Invasive Plant Advisory Group as "likely invasive."[1] Likely invasive plants are defined as non-native plants that are naturalized in the state and meet some, but not all the criteria used to designate plants as invasive. SWCA was first informed of Japanese hops presence in August 2024. Since then, SWCA has been monitoring the LOW monthly (April through July and September) during the growing season for new populations of the plant. Any plants discovered are mapped, removed, and disposed of off-site.

Monitoring began in April 2025, and SWCA swept the entire LOW to survey for and remove any Japanese hops. During the initial survey in April, Japanese hops was found in topsoil in all segments in Sudbury except Segments 7 and 8. All observations of Japanese hops were restricted to the topsoil that was used along the margins of the LOW. All Japanese hops were removed from the site and disposed of in landfill waste.

Following this initial sweep, additional Japanese hops were found by SWCA staff during invasive species management visits, as well as by SWCA and AECOM construction monitors during routine, daily inspections. All individual Japanese hops sightings were reported to SWCA with approximate station number locations. The distribution of Japanese hops found in 2025 is detailed in Attachment B of this report. A total of 58 Japanese hops plants were removed from the LOW in Sudbury in 2025. This distribution is organized by segment and station number in Table 1 (see Attachment C).

Due to the collaborative team approach to Japanese hops discovery and management, none of the plants were able to reach flowering maturity and were not able to reproduce and contribute to the existing seed bank. However, it is possible that additional Japanese hops seed still exist in the soil seed bank and may germinate next year. Thorough, repeated sweeps are planned to continue from April through July of 2026 to ensure that any Japanese hops plants that emerge are not able to reproduce and produce seed.

[1] Massachusetts Invasive Plant Advisory Group. 2022. Plants Voted as: LIKELY INVASIVE. Massachusetts Invasive Plant Advisory Group, Massachusetts Natural Resources Collaborations. Available at: https://massnrc.org/mipag/linvasive.htm https://massnrc.org/mipag/linvasive.htm. Accessed November 20, 2024.

## CONCLUSION

SWCA successfully completed invasive species management between April and August 2025. Monthly Japanese hops monitoring began in April and a wider range of invasive species was managed starting in July. All invasive control methods were restricted to manual removal including hand pulling or digging using a mini excavator or mechanical hand tools.

All invasive plant species along the ROW will be monitored and managed in 2026. Japanese hops will also be closely monitored throughout the entire Project LOW and removed to ensure that it does not become established along the ROW.

If you have any questions about SWCA's invasive species management efforts associated with the Project, please contact Scott Fisher at (413) 530 9394 or via email at sfisher@swca.com.

Sincerely,

Scott Fisher
Senior Office Director

Ada Fox
Associate Project Restoration Ecologist

Attachment A: Photographs
Attachment B: Japanese Hops Distribution Mapping
Attachment C: Japanese Hops Distribution Table

# ATTACHMENT A

## Photographs

**Photo 1.** Mitigation area conditions at approximately STA 757+00 (Segment 14) facing north after invasive species management**.** Photo taken May 2025.


**Photo 2.** Mitigation area conditions at approximately STA 760+00 (Segment 14) facing north before invasive species management.

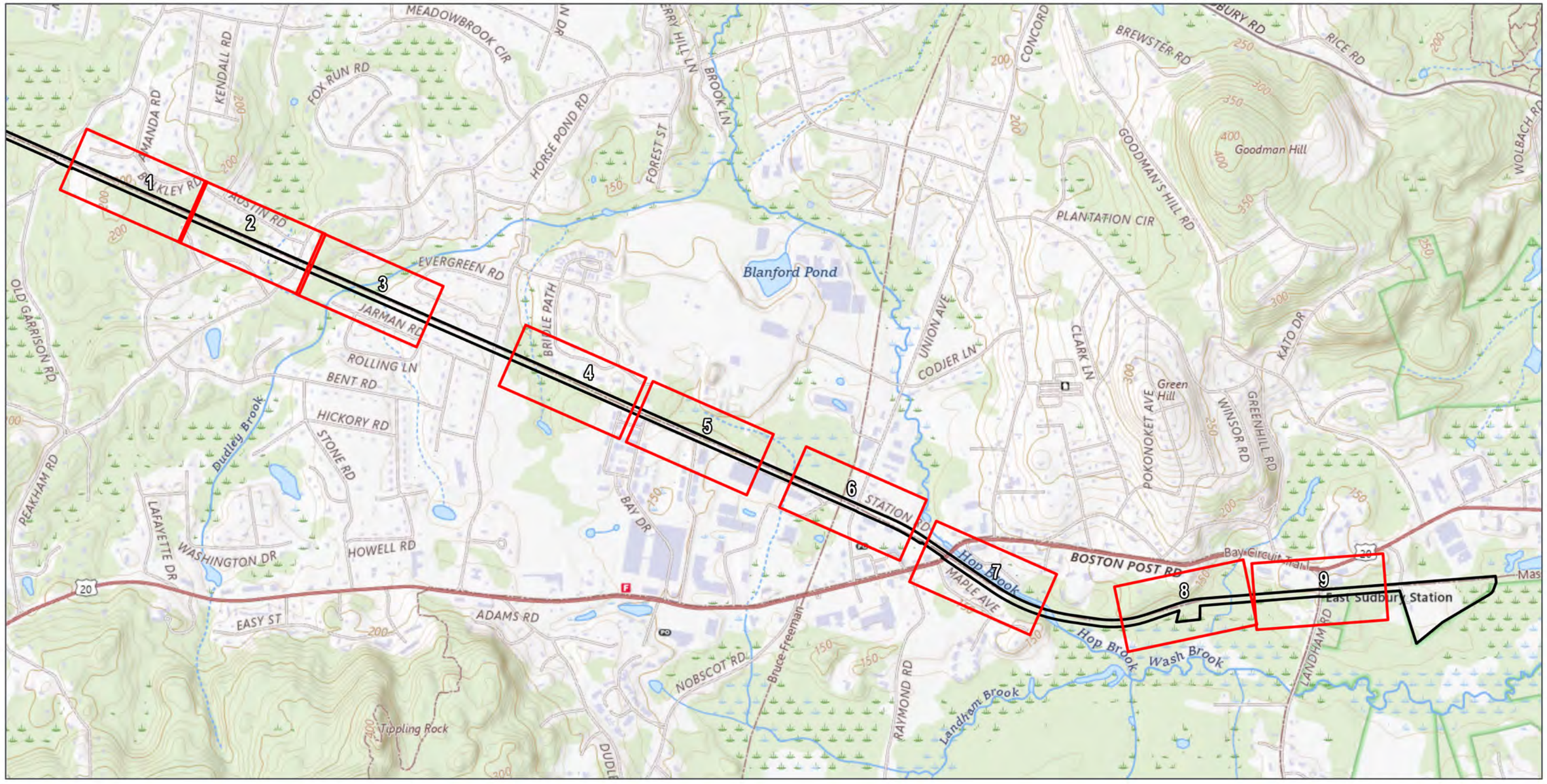

**Photo 3.** Tree of Heaven observed at approximately STA 757+00 (Segment 14) facing south prior to invasive species management.


**Photo 4.** Japanese knotweed sprouts at approximately STA 754+50 (Segment 14) facing north.

**Photo 5.** Barnyard grass removal at the detention basin at approximately STA 765+00 (Segment 14). Photo taken August 2025.

# ATTACHMENT B

## Japanese Hops Distribution Mapping




MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Japanese Hops**

INDEX SHEET

Existing Right-of-Way (ROW)

Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3669°N 71.4256°W

0 500 1,000 Feet
0 100 200 Meters

N

1:14,000

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Hops 2025 Index
Aprx: 83964_mcrtSudburyToHudson

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MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 1 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3736°N 71.4535°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Hops 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

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**Figure 1. 2025 Invasive Management**

MAP 2 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3719°N 71.4483°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Hops 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

SWCA ENVIRONMENTAL CONSULTANTS


MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 3 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3702°N 71.4432°W

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0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
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Project No. 83964
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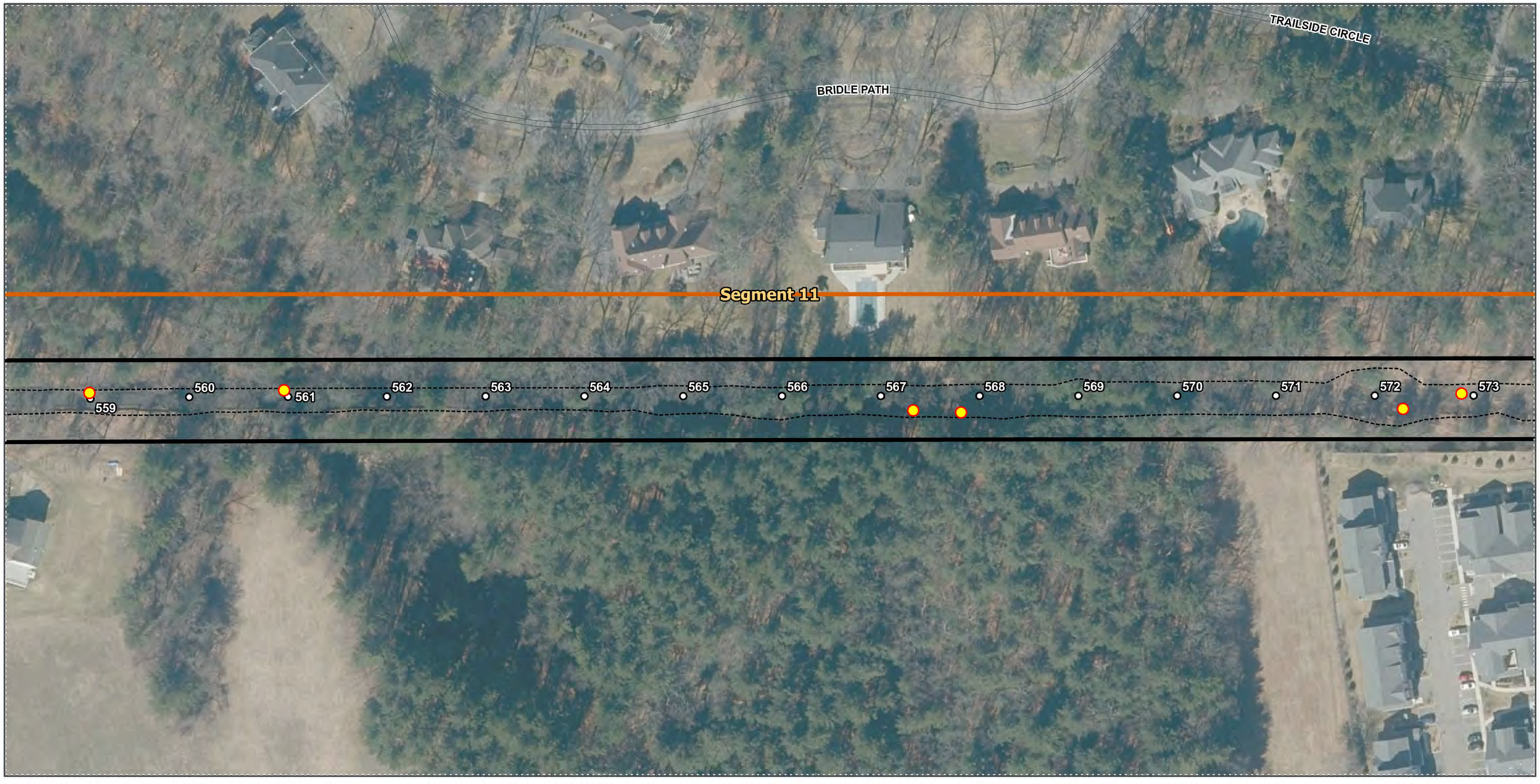


MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 4 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3673°N 71.4343°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Hops 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

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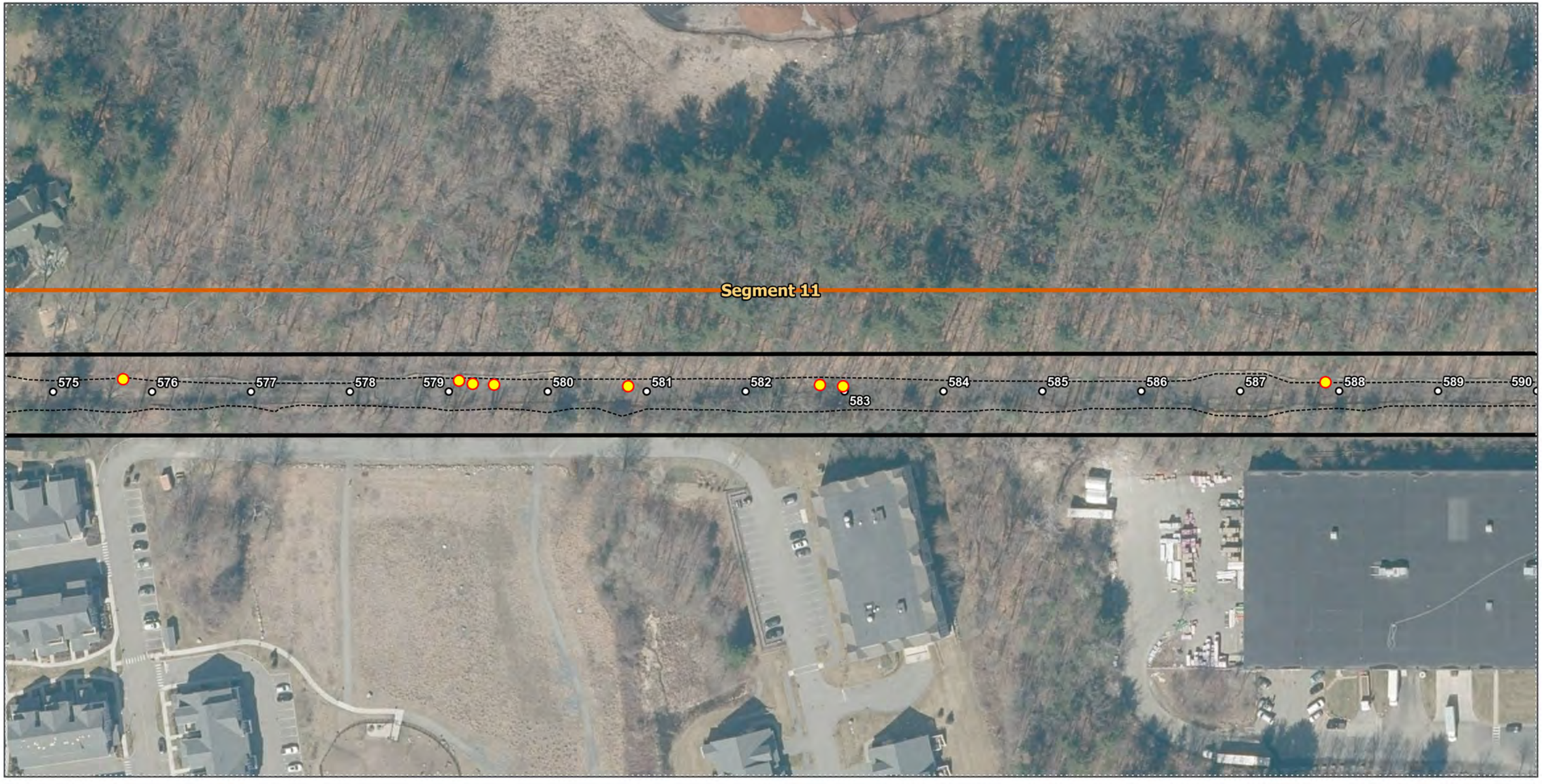


MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 5 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3654°N 71.4288°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
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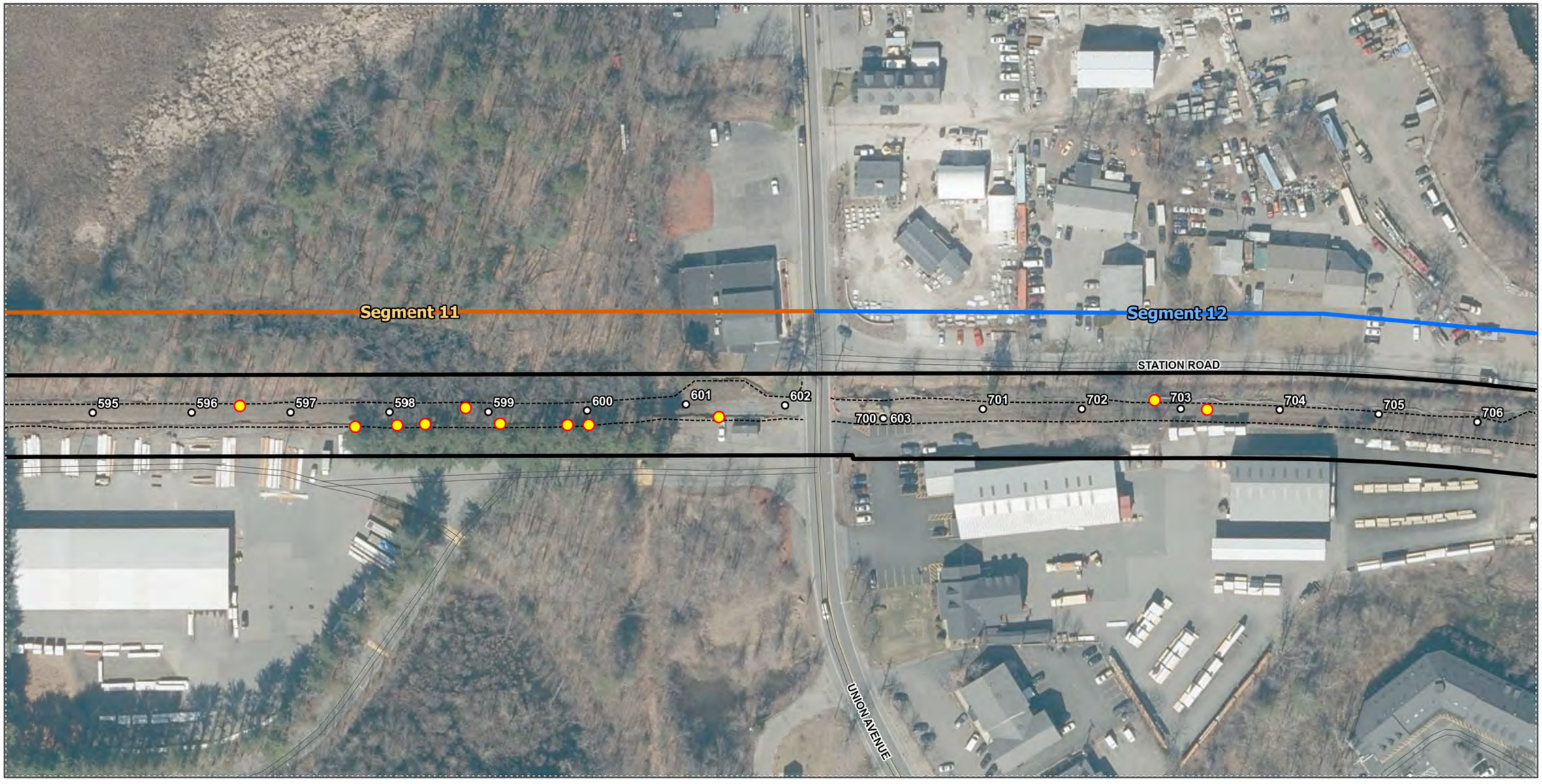


MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 6 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3633°N 71.4221°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Hops 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

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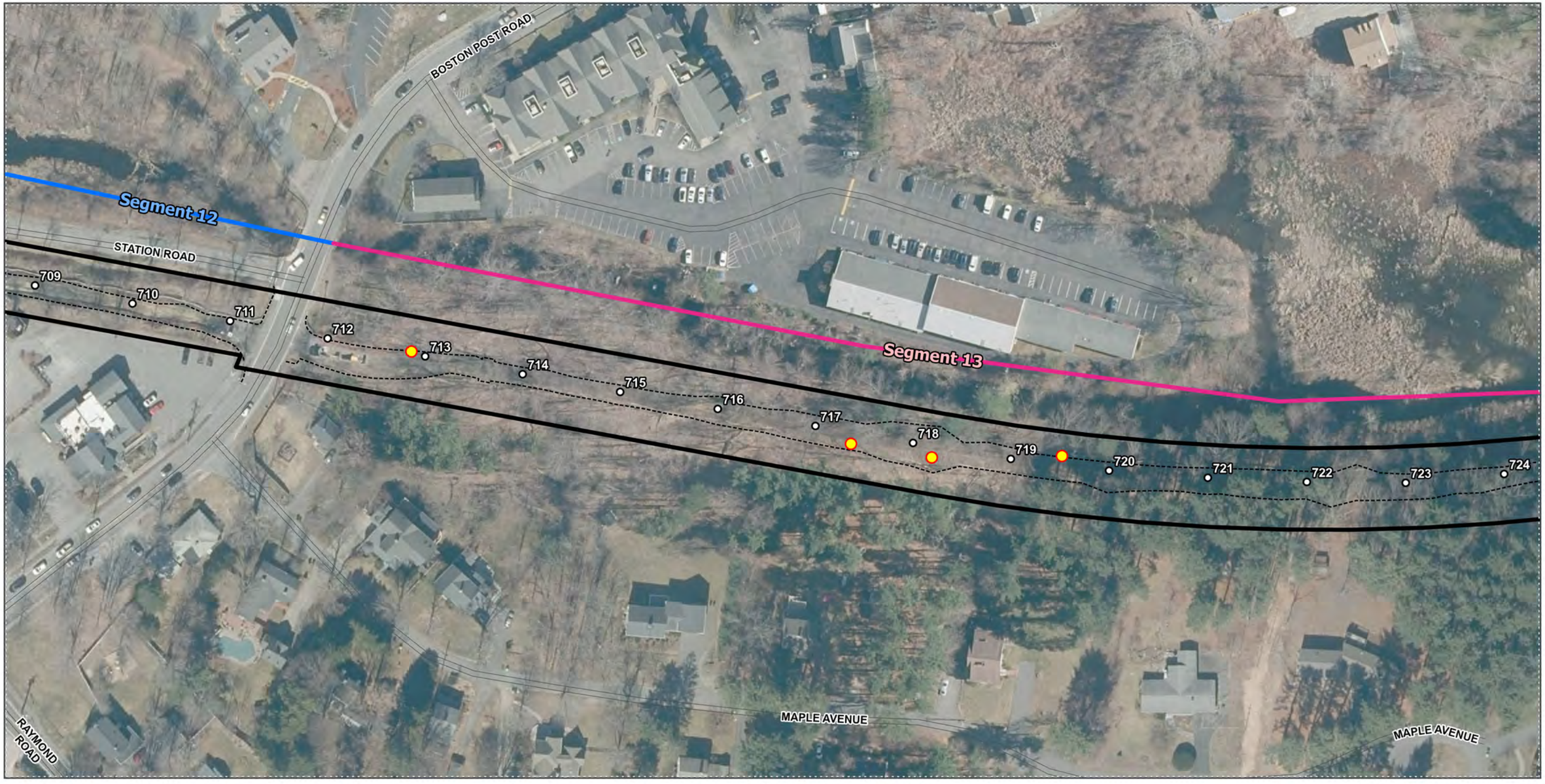


MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 7 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3609°N 71.4165°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Hops 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

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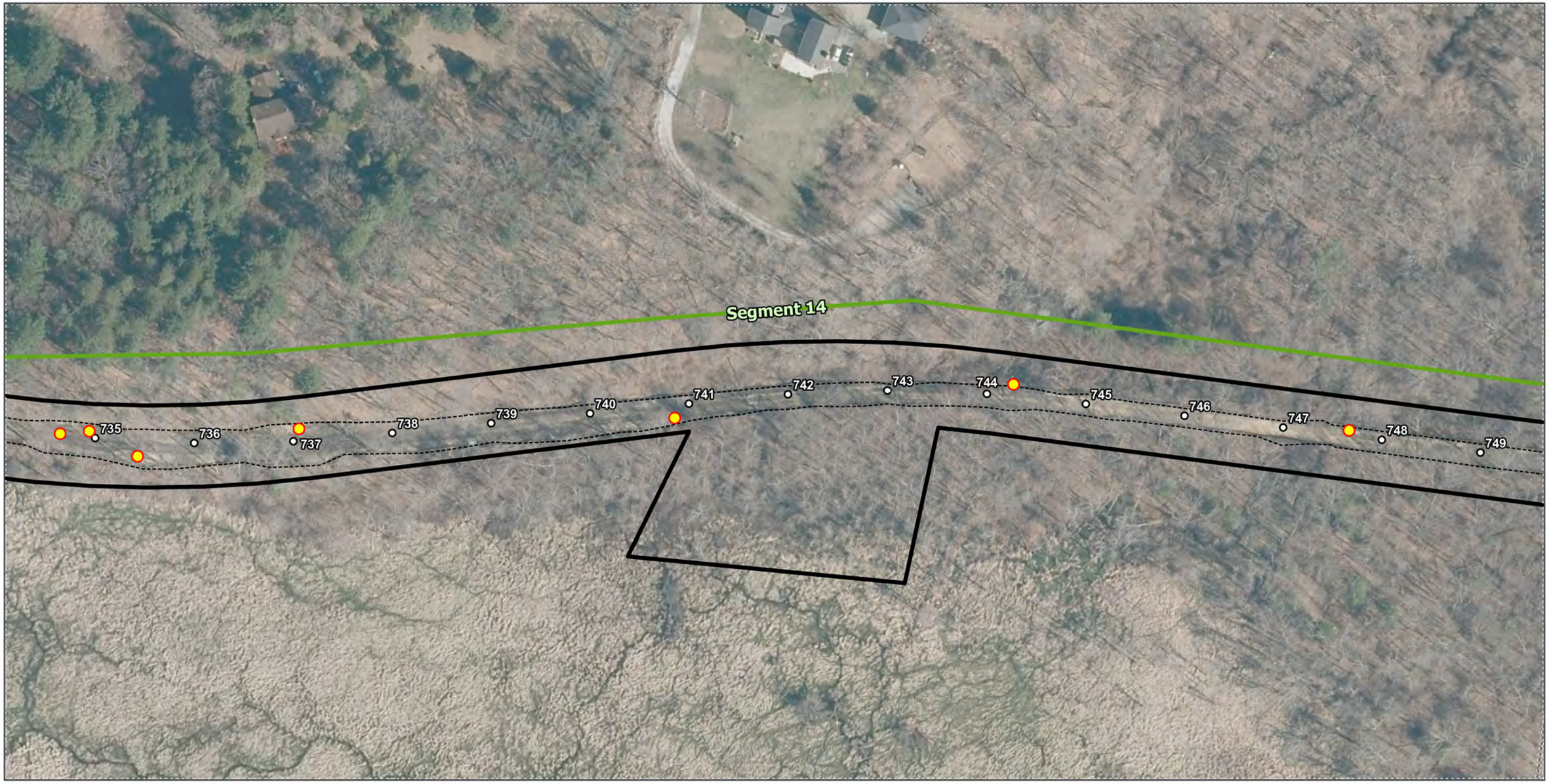



MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 8 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.36°N 71.4077°W

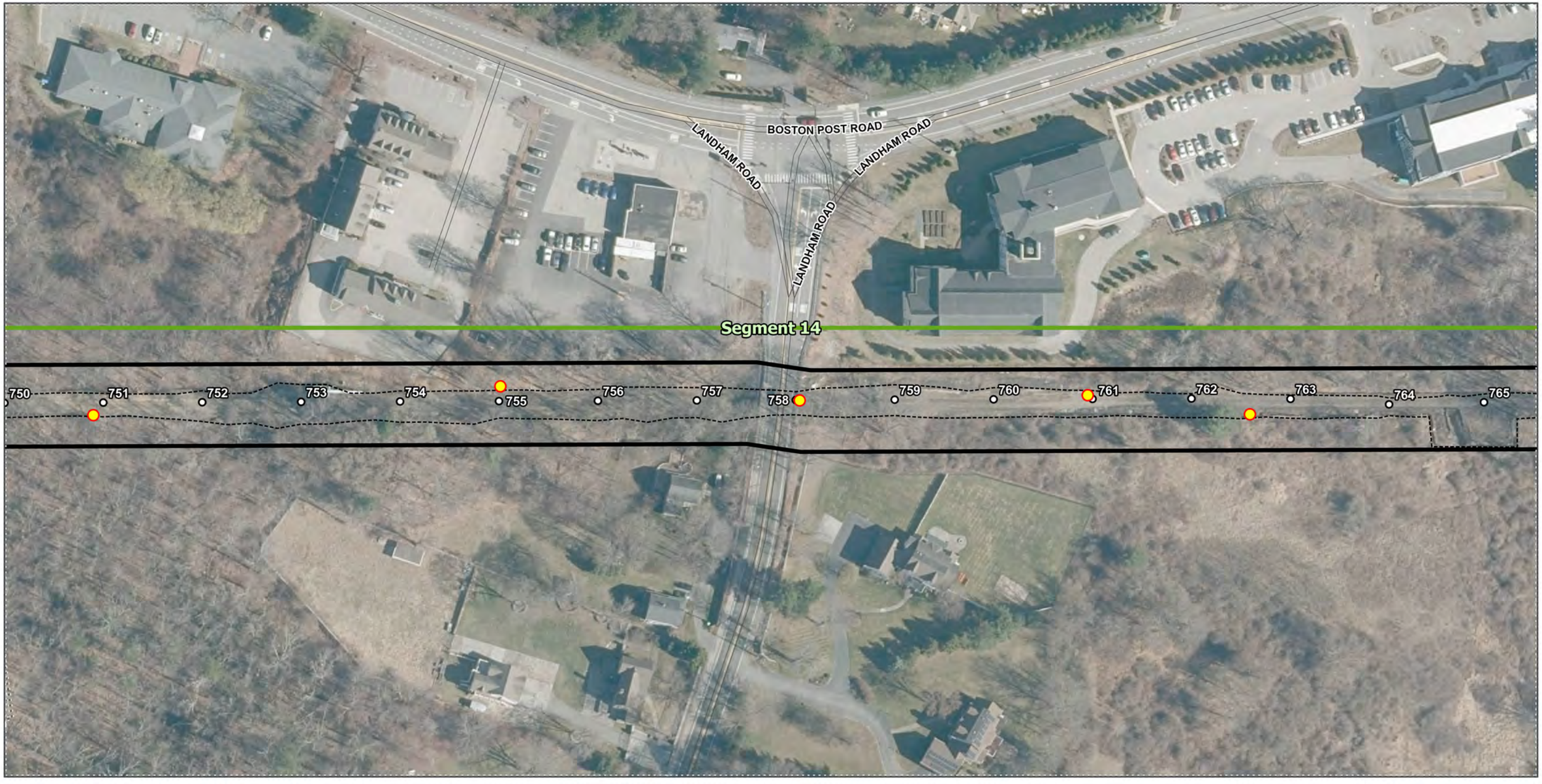
0 50 100 Feet
0 10 20 Meters

N

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Hops 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

SWCA ENVIRONMENTAL CONSULTANTS




MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 9 OF 9

- Japanese Hops
- Stationing
- Limit of Work
- Existing Right-of-Way (ROW)
- Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3605°N 71.4018°W

0 50 100 Feet
0 10 20 Meters

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1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
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Layout: Hops 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

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# ATTACHMENT C

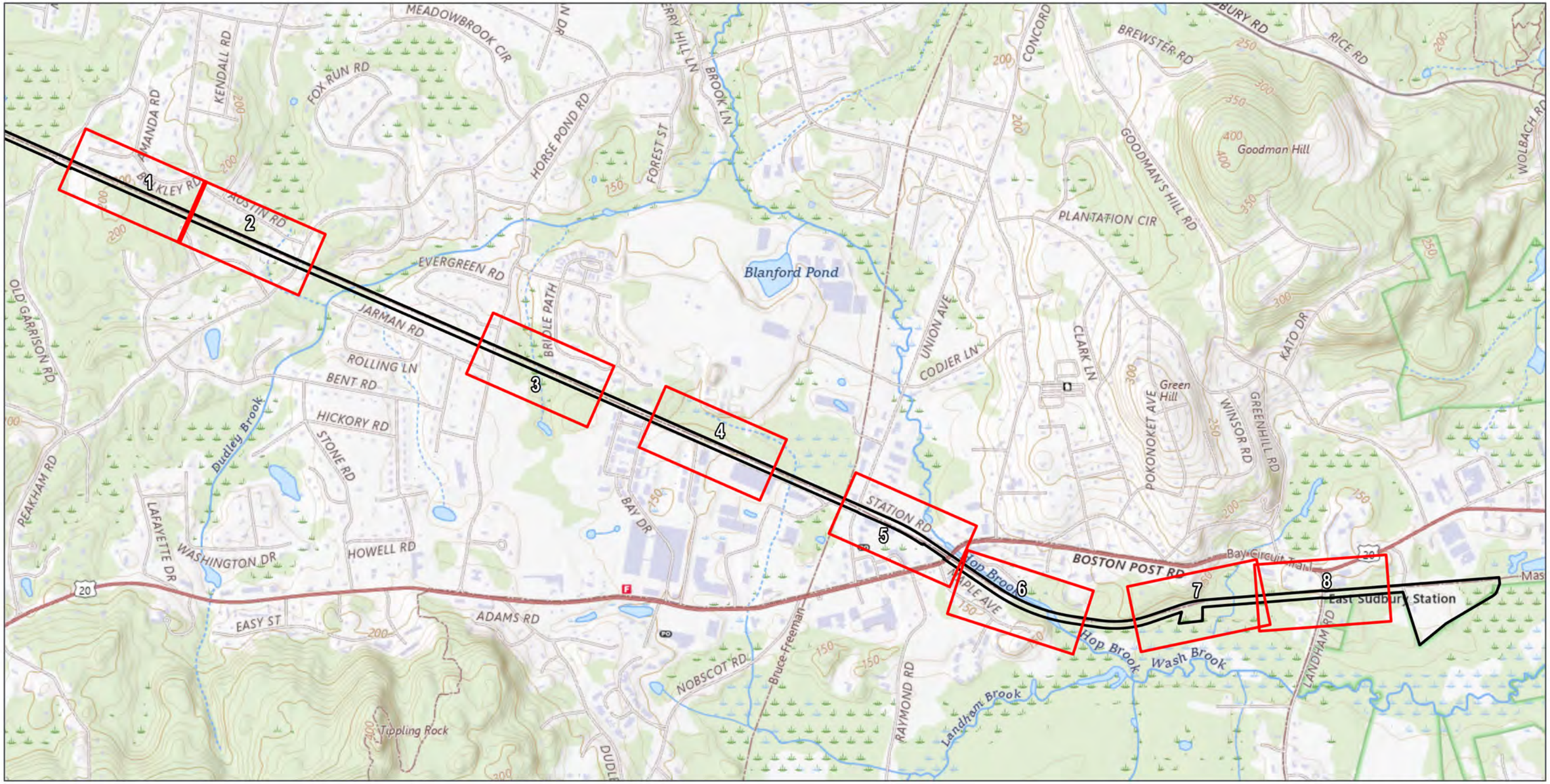
## Japanese Hops Distribution Table

## Table 1. Japanese Hops Distribution

| Segment | Station | No. Plants |
|---|---|---|
| 9 | 504 | 4 |
| 9 | 520 | 1 |
| 9 | 534 | 5 |
| 10 | 535 | 2 |
| 10 | 543 | 2 |
| 10 | 544 | 1 |
| 10 | 545 | 1 |
| 10 | 546 | 1 |
| 11 | 559 | 1 |
| 11 | 561 | 1 |
| 11 | 567 | 1 |
| 11 | 568 | 1 |
| 11 | 572 | 1 |
| 11 | 573 | 1 |
| 11 | 576 | 1 |
| 11 | 579 | 3 |
| 11 | 581 | 1 |
| 11 | 583 | 2 |
| 11 | 588 | 1 |
| 11 | 596 | 1 |
| 11 | 598 | 3 |
| 11 | 599 | 2 |
| 11 | 600 | 2 |
| 11 | 601 | 1 |
| 12 | 703 | 2 |
| 13 | 713 | 1 |
| 13 | 717 | 1 |
| 13 | 718 | 1 |
| 13 | 719 | 1 |
| 14 | 735 | 3 |
| 14 | 737 | 1 |
| 14 | 741 | 1 |
| 14 | 744 | 1 |
| 14 | 748 | 1 |
| 14 | 751 | 1 |
| 14 | 755 | 1 |
| 14 | 758 | 1 |
| 14 | 761 | 1 |
| 14 | 763 | 1 |

# ATTACHMENT D

# 2025 Invasive Plant Management Activity Figures




MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

INDEX SHEET

Existing Right-of-Way (ROW)

Map Sheet

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3669°N 71.4256°W

0 500 1,000 Feet
0 100 200 Meters

N

1:14,000

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
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MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 1 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet
- Garlic Mustard

Sudbury, MA
NAD 1983 StatePlane Massachusetts Mainland FIPS 2001 Feet
42.3736°N 71.4535°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Inv Management 2025 Sheets Aprx: 83964_mcrtSudburyToHudson

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MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 2 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet
- Garlic Mustard

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3719°N 71.4483°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
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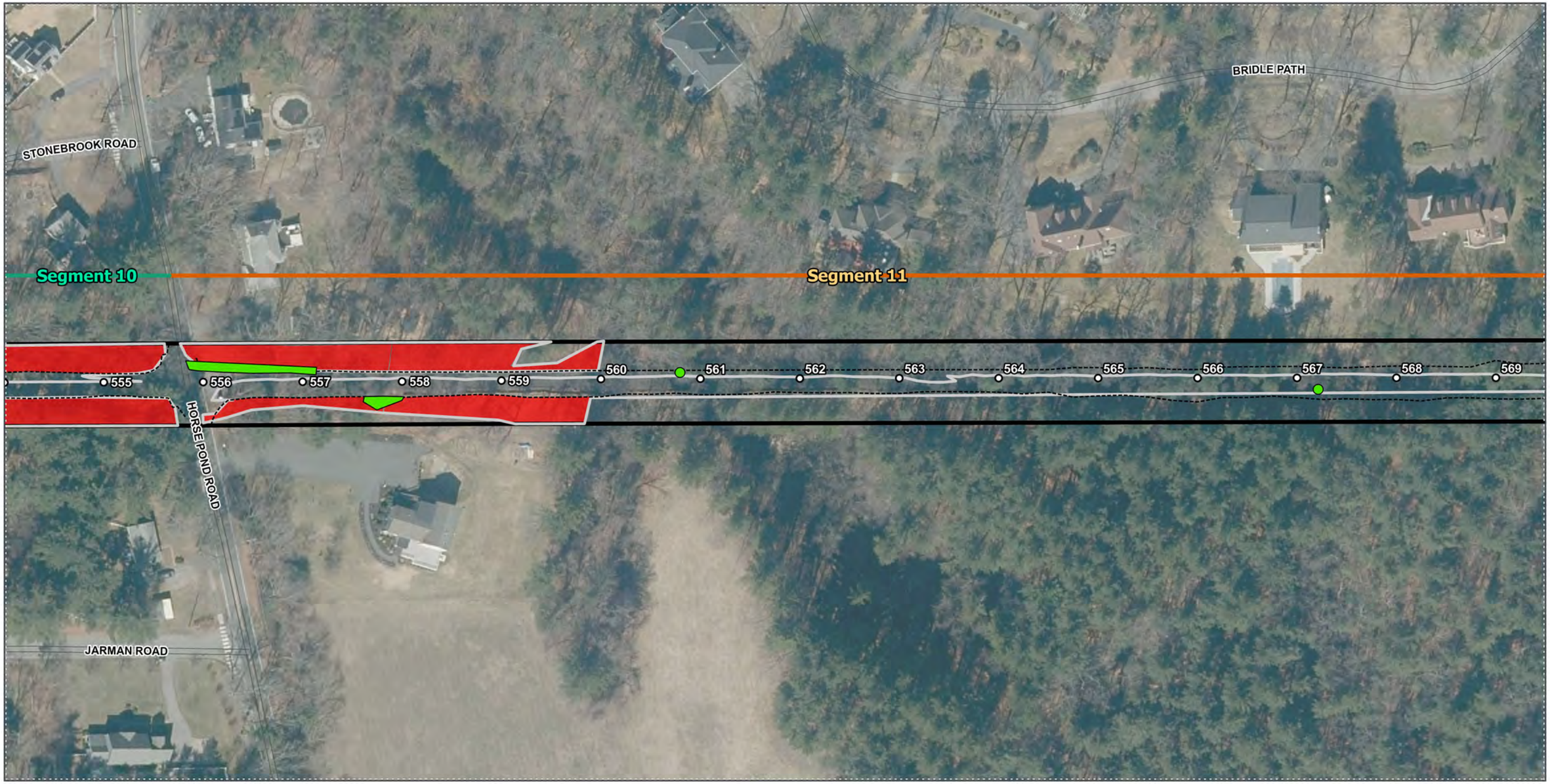


MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 3 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet
- Garlic Mustard

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3677°N 71.4358°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
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**Figure 1. 2025 Invasive Management**

MAP 4 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet
- Garlic Mustard

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3653°N 71.4283°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
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Project No. 83964
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Aprx: 83964_mcrtSudburyToHudson

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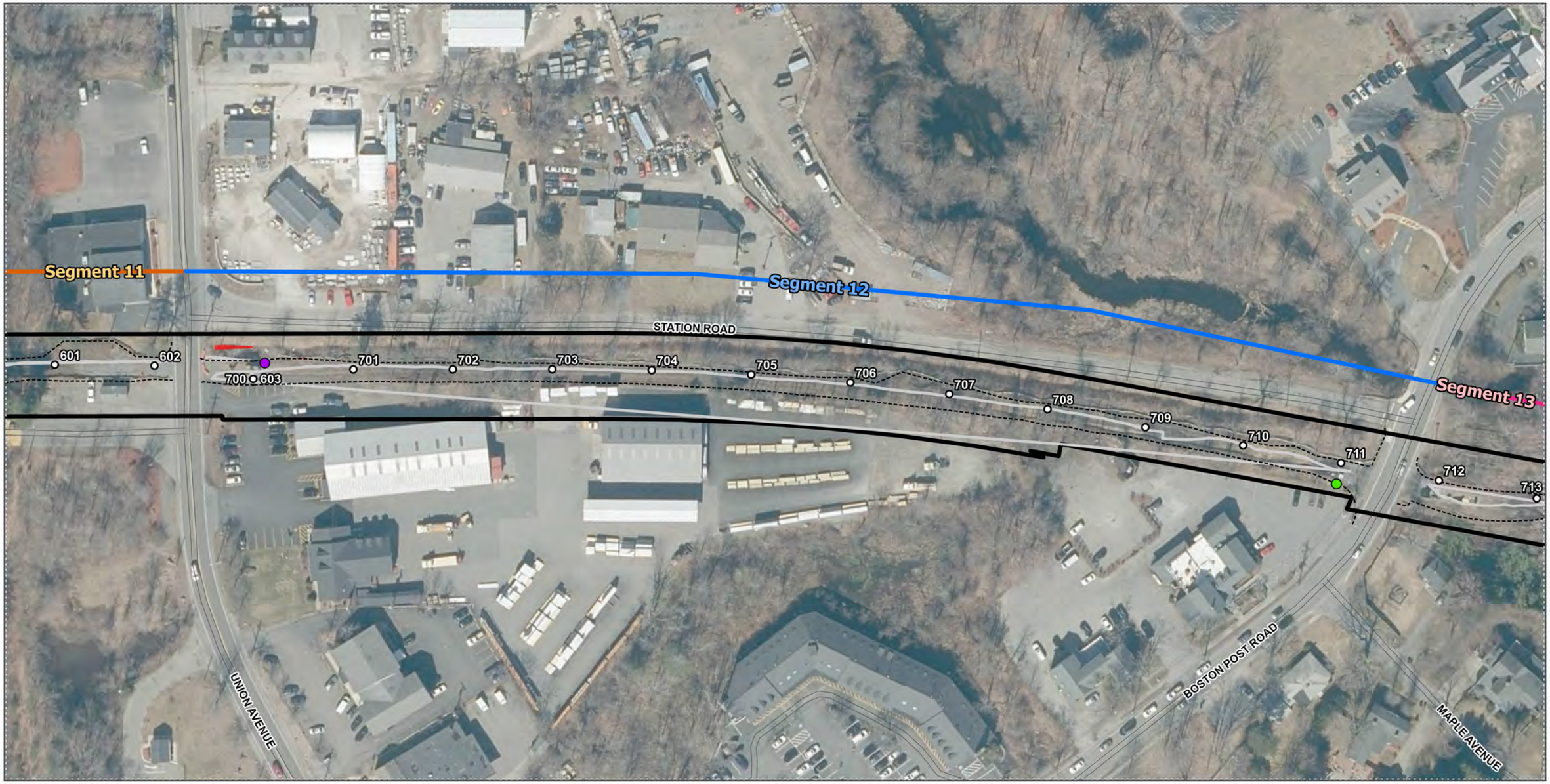


MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 5 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet
- Garlic Mustard
- Phragmites

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3625°N 71.42°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Inv Management 2025 Sheets
Aprx: 83964_mcrtSudburyToHudson

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MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 6 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet
- Garlic Mustard
- Japanese Knotweed

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3602°N 71.4149°W

0 50 100 Feet
0 10 20 Meters

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Inv Management 2025 Sheets
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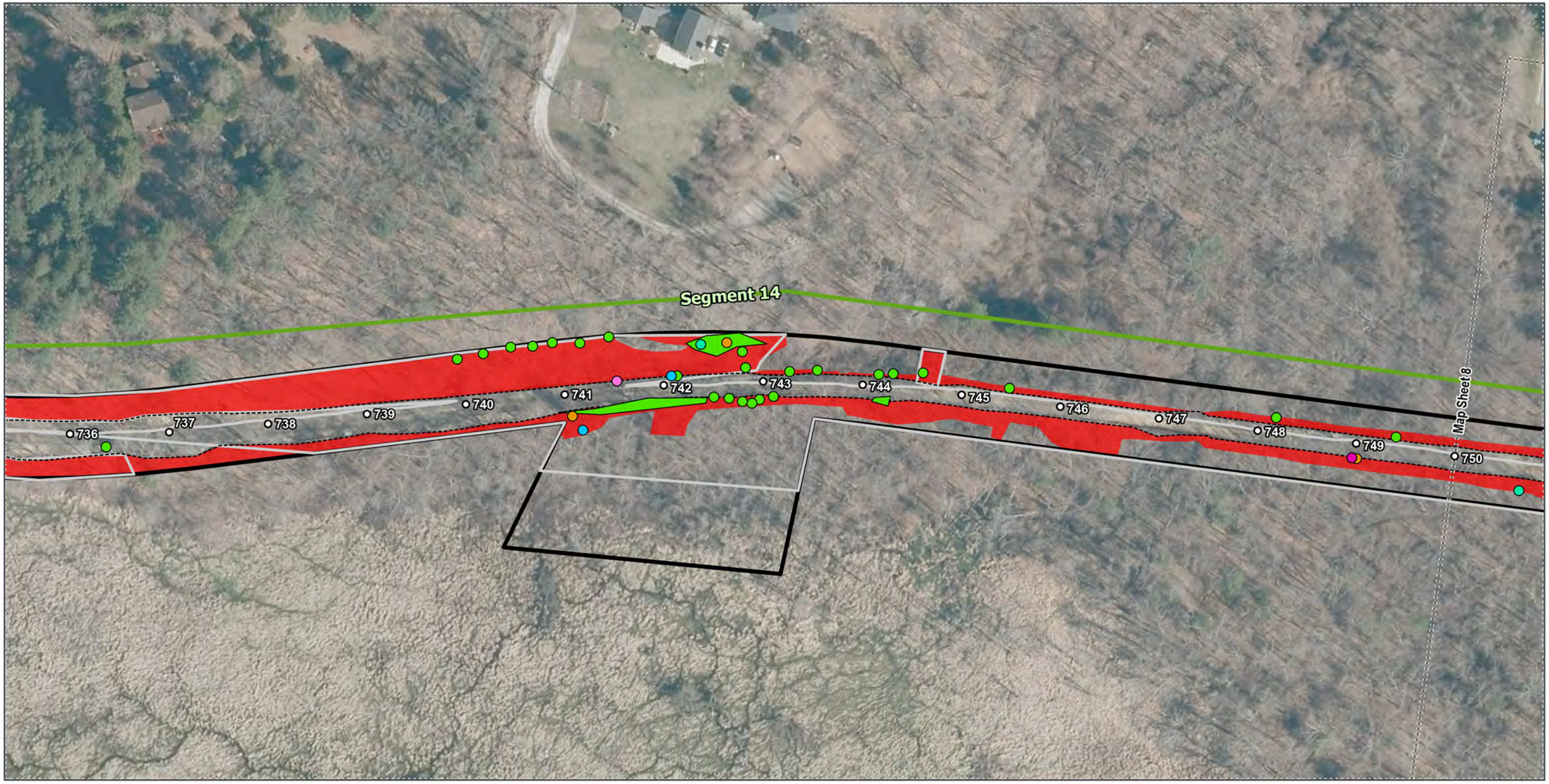



MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 7 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet

- Garlic Mustard
- Japanese Barberry
- Japanese Knotweed
- Multiflora Rose
- Reed Canary Grass
- Winged Euonymus

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3601°N 71.4072°W

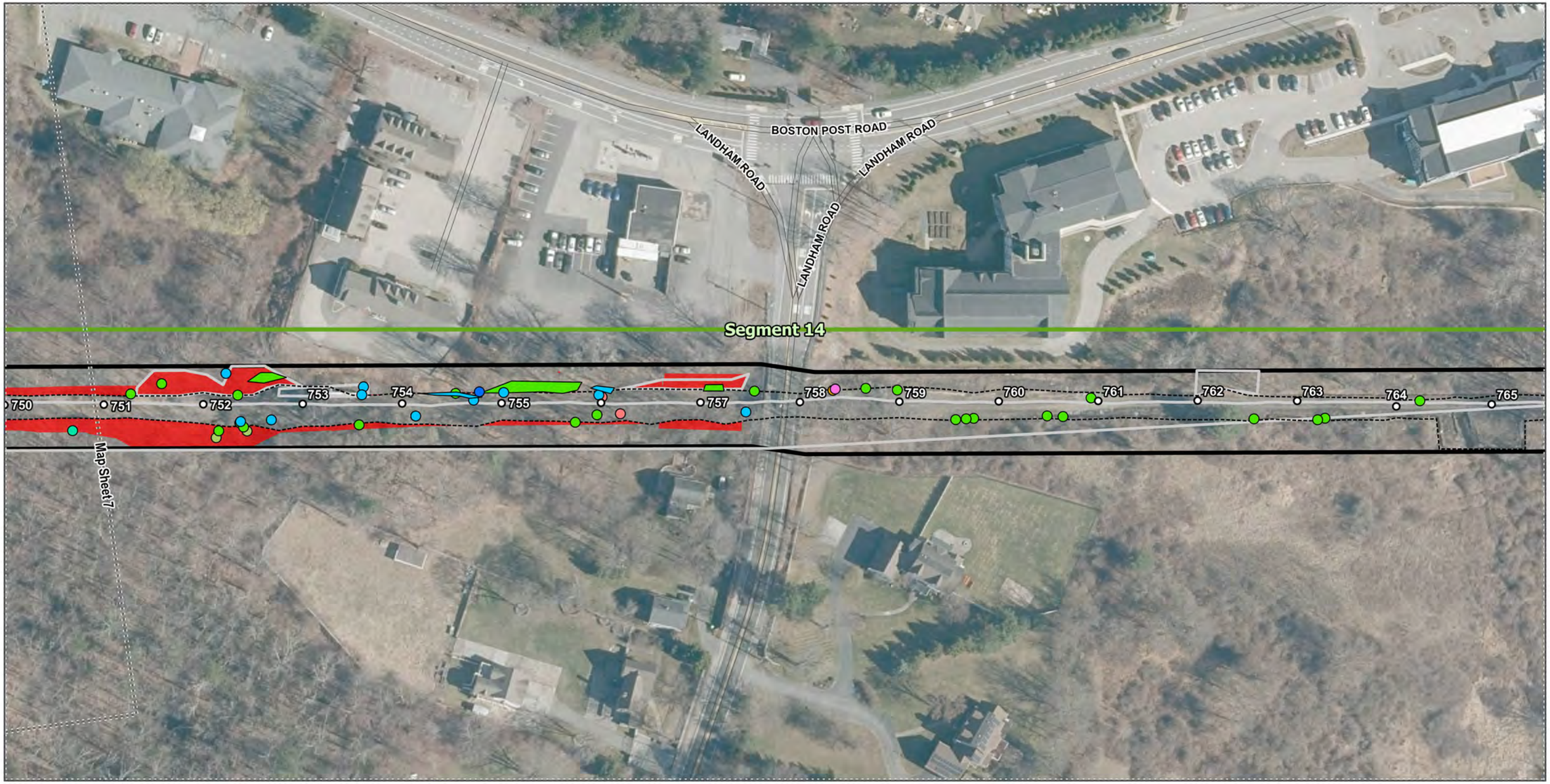
0 50 100 Feet
0 10 20 Meters

N

1:1,200

*Base Map: Esri ArcGIS Online, accessed January 2026*
Updated: 1/23/2026
Project No. 83964
Layout: Inv Management 2025 Sheets Aprx: 83964_mcrtSudburyToHudson

SWCA ENVIRONMENTAL CONSULTANTS




MCRT SUDBURY TO HUDSON

**Figure 1. 2025 Invasive Management**

MAP 8 OF 8

- Stationing
- Limit of Work
- 2025 Management Location
- Existing Right-of-Way (ROW)
- Management Zone
- Map Sheet

- Asiatic Bittersweet
- Bush Honeysuckle
- Garlic Mustard
- Japanese Barberry
- Japanese Knotweed
- Multiflora Rose
- Reed Canary Grass
- Tree of Heaven

Sudbury, MA
NAD 1983 StatePlane
Massachusetts Mainland FIPS
2001 Feet
42.3605°N 71.4018°W

0 50 100 Feet
0 10 20 Meters

N

1:1,200

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SWCA ENVIRONMENTAL CONSULTANTS

# ATTACHMENT E

## 2025 Invasive Plant Management Activity Summary Table

| Date | Describe the Work Completed |
|---|---|
| 2025-04-21 18:05:13 | Pulling garlic mustard |
| 2025-04-21 18:17:21 | Pulling garlic mustard |
| 2025-04-21 18:57:40 | Pulled garlic mustard |
| 2025-04-23 14:12:02 | J hops survey and removal |
| 2025-04-23 14:59:58 | J hops survey and removal |
| 2025-04-23 15:08:15 | Monitored and pulled Japanese hops. |
| 2025-07-15 18:32:38 | Invasive management within invasive management polygons of previous populations |
| 2025-07-21 15:10:42 | Cleared all invasives within management polygon |
| 2025-07-21 15:33:09 | Completed invasive pulling in invasive management polygon |
| 2025-07-21 17:34:59 | Pulled garlic mustard |
| 2025-07-21 17:44:54 | Hand pulling bittersweet and garlic mustard |
| 2025-07-21 18:26:07 | Pulled invasives within management polygon |
| 2025-07-22 15:14:48 | Pulled all invasives in management polygon |
| 2025-07-22 16:51:22 | Pulled invasives within management polygon |
| 2025-07-22 17:12:44 | Pulled invasives within management area. |
| 2025-07-22 18:29:59 | Pulled invasives within management area |
| 2025-07-23 16:40:13 | Pulling invasives mostly bittersweet and buckthorn |
| 2025-07-23 18:32:48 | Pulling invasive glossy bs, multiflora rose honeysuckle, buckthorn, purple loosestrife, tree of heaven, common buckthorn |
| 2025-07-30 18:07:23 | Pulled invasives |
| 2025-07-30 18:57:37 | Pulled invasives |
| 2025-07-31 18:47:30 | Pulled invasives |
| 2025-07-31 18:49:06 | Pulled invasives |
| 2025-07-31 18:50:17 | Pulled invasives |
| 2025-08-06 13:28:41 | Pulled invasives |
| 2025-08-06 13:57:51 | Pulled invasives |
| 2025-08-06 18:46:38 | Pulled invasives |
| 2025-08-06 18:48:42 | Pulled invasives |
| 2025-08-07 13:32:29 | manual removal |
| 2025-08-08 18:41:17 | Mechanical removal of glossy buckthorn, asiatic bittersweet, burning bush, and Japanese hops. |
| 2025-08-11 13:36:26 | Pulled invasives |
| 2025-08-11 13:56:35 | Pulled invasives |
| 2025-08-11 17:34:24 | Pulled invasives |
| 2025-08-11 18:34:50 | Pulled invasives |
| 2025-08-11 18:35:39 | Pulled invasives |
| 2025-08-11 18:36:22 | Pulled invasives |
| 2025-08-11 18:37:58 | Pulled invasives |
| 2025-08-11 18:38:52 | Pulled invasives |
| 2025-08-11 18:39:37 | Pulled invasives |
| 2025-08-11 19:00:18 | Pulled invasives |
| 2025-08-13 18:36:42 | Mechanical removal of invasive species. |
| 2025-08-18 18:36:22 | Pulled invasives |
| 2025-08-19 15:40:25 | Pulling invasives |
| 2025-08-19 15:41:18 | Pulling invasives |
| 2025-08-19 20:44:10 | Pulling invasive plants, buckthorn, garlic mustard, bittersweet, honeysuckle |
| 2025-08-19 20:45:35 | Pulling invasive plants, buckthorn, garlic mustard, bittersweet, honeysuckle |
| 2025-08-19 20:46:24 | Pulling invasive plants, buckthorn, garlic mustard, bittersweet, honeysuckle, purple loosestrife |
| 2025-08-19 20:47:20 | Pulling invasive plants, buckthorn, garlic mustard, bittersweet, honeysuckle |
| 2025-08-19 20:48:10 | Pulling invasive plants, buckthorn, garlic mustard, bittersweet, honeysuckle |
| 2025-08-19 20:49:28 | Pulling invasive plants, buckthorn, garlic mustard, bittersweet, honeysuckle |