

Muddy River Flood Damage Reduction Project
Phase 2 Construction Activities Next 90 Days
November 2022

General: The Muddy River Flood Damage Reduction Phase 2 Construction Project is located in the footprint generally between Leverett Pond to Boylston Street in Boston and Brookline. The major project components involve dredging 1 to 8' of sediment for flow conveyance in the Back Bay Fens and the Riverway sections of the Muddy River. It also includes excavation of the sandbar and island at Leverett Pond. Work also includes the removal of *phragmites* from the wetland and riparian areas which affect flow conveyance. After removal of river sediments and *phragmites*, preservation and restoration of the historic park shoreline in construction areas will consist of planting emergent wetland plants and restoring riparian vegetation in upland areas by planting trees and shrubs. This Notice is intended to identify the general construction activities that will be performed in the next 90 days. A figure that shows a typical flood control channel and the proposed improvements is at the end of this report.

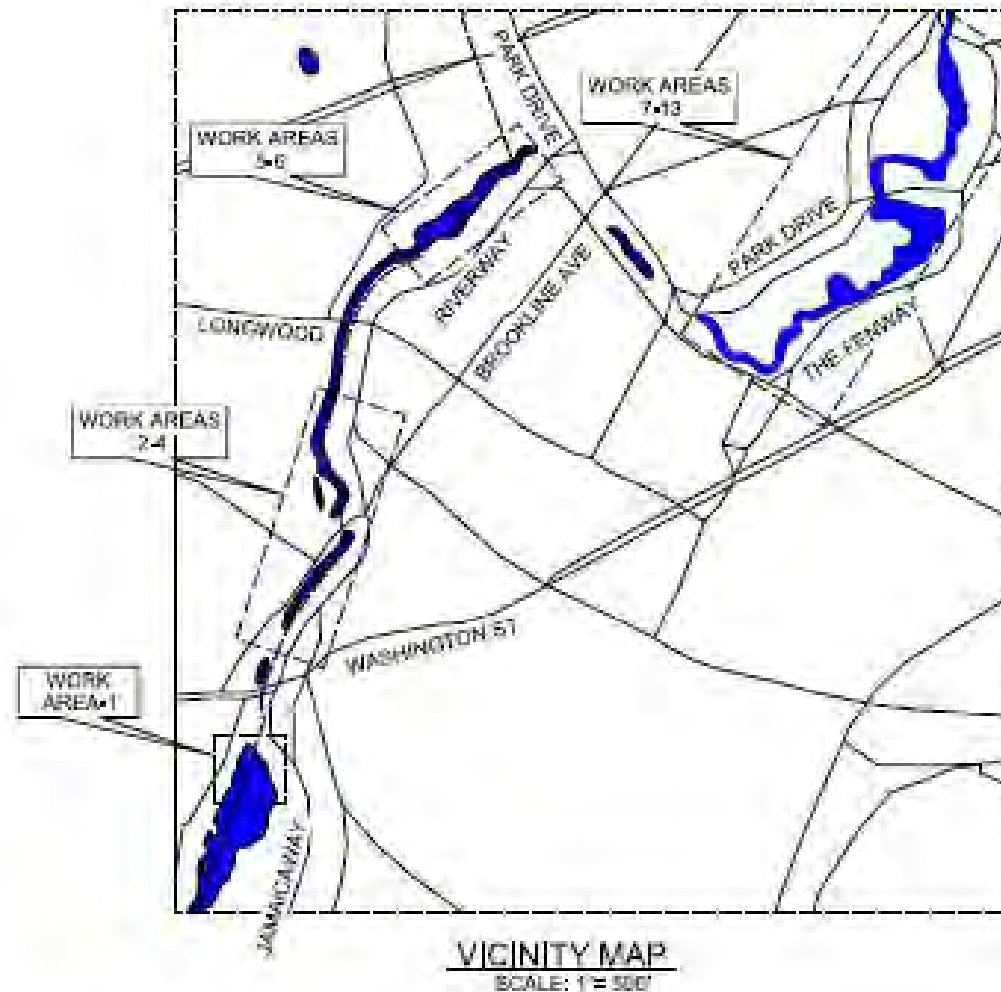
December 2022 through February 2023 Period:

- Since the award of the construction contract and issuance of the Notice to Proceed over 2-1/2 years ago, the contractor has been actively dredging the sediment from the river and properly disposing of the material at disposal facilities. Utilization of two crews has maximized productivity of dredged sediments.
- Dredging of the Muddy River is divided into 12 work areas as shown in the Vicinity Map, with 6 work areas upstream of the Riverway and 6 work areas downstream of Ave. Louis Pasteur. At this time, the contractor has completed dredging in Work Areas #1-5 and #7-12.
- **Work Area #2** – section of river at Brookline Avenue and the Riverway – near Beth Israel Deaconess Hospital – the contractor completed dredging this section mid-February 2021. Surveying was done in February to confirm new flood risk management cross sections. Since that time, a review of the as-dredged conditions has taken place to confirm plant locations and topsoil quality to optimize planting success. A collapsed drain was repaired Winter 2021 which deferred planting of Work Area #2 to Spring 2022. Grading of the site and wetland construction and all trees, upland planting, and seeding were completed by June 2022. Maintenance of the planting will continue to October 2024 during the two-year plant guarantee period.
- **Work Area #3** – section of river at Brookline Avenue, the Riverway, and Netherlands Road – near Beth Israel Deaconess Hospital – the contractor completed dredging this section late-March 2021. Surveying was done in May to confirm new flood risk management cross sections. Since that time, a review of the as-dredged conditions has taken place to confirm plant locations and topsoil quality to optimize planting success. All trees, upland planting, and seeding were completed in October 2021. Stonedust path restoration and landscape protection fence installation took place in mid-May 2022. Wetland plants were installed late-May 2022 and will be maintained to September 2024. Maintenance of the rest of the planting will continue to October 2023 during the two-year plant guarantee period.
- **Work Area #4** – section of river immediately downstream of Work Area #3, across Netherlands Road – the contractor completed dredging this section early April 2021. Surveying was done late May to confirm new flood risk management cross sections. Since that time, a review of the as-dredged conditions has taken place to confirm plant locations and topsoil quality to optimize planting success. All trees, upland planting, and seeding were completed in October 2021. Stonedust path restoration and landscape protection fence installation took place in mid-May 2022. Maintenance of the planting will continue to October 2023 during the two-year plant guarantee period.
- **Work Area #1** – Leverett Pond – The contractor completed dredging the revised footprint in June 2021. Surveying was done in mid-July 2021 to confirm new flood risk management cross sections. The additional dredging work at the Village Brook Outfall requested by the Sponsors was completed and equipment demobilized mid-March 2022. Grading of the site and installation of all trees, upland planting, and seeding were completed by June 2022. Landscape protection fence installation and paving of the pathway were completed early August. Maintenance of the planting will continue to October 2024 during the two-year plant guarantee period.

- **Work Area #7** – section of river immediately downstream of Avenue Louis Pasteur – the contractor completed dredging this section at the end of December 2020. Surveying was done in early January 2021 to confirm new flood risk management cross sections. Since that time, a review of the as-dredged conditions has taken place to confirm plant locations and topsoil quality to optimize planting success. Grading of the site and wetland construction and all trees, upland planting, and seeding were completed by October 2021. Stonedust path restoration was completed late-November 2021. Maintenance of the planting will continue to October 2023 during the two-year plant guarantee period.
- **Work Area #8** – section of river immediately downstream of Work Area #7 – the contractor completed dredging this section before the end of February 2021. Surveying was done in late February 2021 to confirm new flood risk management cross sections. Since that time, a review of the as-dredged conditions has taken place to confirm plant locations and topsoil quality to optimize planting success. Grading of the site and wetland construction and all trees, upland planting, and seeding were completed by October 2021. Stonedust path restoration was completed late-November 2021. Maintenance of the planting will continue to October 2023 during the two-year plant guarantee period.
- **Work Area #9** – section of river immediately downstream of Work Area #8 – the contractor completed dredging this section mid-April 2021. Surveying was done in late June 2021 to confirm new flood risk management cross sections. Since that time, a review of the as-dredged conditions has taken place to confirm plant locations and topsoil quality to optimize planting success. Grading of the site and wetland construction and all trees, upland planting, and seeding were completed by October 2021. Stonedust path restoration was completed late-November 2021. Maintenance of the planting will continue to October 2023 during the two-year plant guarantee period.
- **Work Area #10** – section of river immediately downstream of Work Area #9 which ends at Agassiz Road – the contractor completed dredging this section mid-December 2021. Surveying was done between July 2021 to January 2022 to confirm new flood risk management cross sections. The sediment processing bins were removed as part of the dredging efforts. Since that time, a review of the as-dredged conditions has taken place to confirm plant locations and topsoil quality to optimize planting success. Installation of herbivore fence, coir logs, and loam was completed mid-May. Trees and shrub beds were planted between early- into mid-May 2022. Stonedust path restoration was completed mid-June. Maintenance of the planting will continue to October 2024 during the two-year plant guarantee period.
- **Work Area #13** – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – the pumps were installed December in the new pump station, as well as the new electrical panels in the existing fire department building. Granite veneer installation resumed in early April and all granite has been installed for the façade as well as the capstone. The new security fence posts have also been installed. Security fencing and security lights were installed by early September. Backfill and paving of the parking lot reconstruction was completed end of July.
- **Work Areas #11 and #12** – Victory Gardens Area – dredging in the section of the river downstream of Agassiz Road Bridge began in late-December 2021 and was completed mid-May 2022. Installation of herbivore fence, coir logs, and preparation of wetland shelves began in mid-June and will continue into July 2022. Planting and restoration of Work Areas #11 and #12 began mid-September and was completed mid-October to coincide with the Fall planting window. Stonedust path restoration will be completed early December 2022. Maintenance of the planting will continue to October 2024 the two-year plant guarantee period.
- **Work Areas #5 and #6** – section of river by Short Street Bridge to Back Bay Yard – near the intersection of Park Drive and Riverway – as the dredging activities resumes in the upstream stretches of the river, temporary construction fencing was installed in early March 2022. Mobilization of equipment and dredging of Work Area #5 took place late-April. Trees and shrubs were planted between early- to mid-June 2022. Maintenance of the planting in Work Area #5 will continue to October 2024 during the two-year plant guarantee period. In Work Area #6, dredging outside the MWRA easement was completed early July 2022. Dredging near the existing sewer lines and phragmites removal along the banks will be deferred until early 2023, after the additional phragmites removal work is complete in Work Areas #11 and #12. Planting and restoration of Work Area #6 will take place during the Spring 2023 planting window.
- **Additional Phragmites Removal in Work Areas #5, #6, #11, and #12** – at the request of and the funding provided by the Sponsors, additional phragmites were removed from within the footprint of Work Areas #5 and #6 and the area restored/planted late August into early September 2022. In Work Areas #11 and #12, additional phragmites removal began mid-October and will continue into early 2023. The phragmites removal is not required for the Flood Risk Management project; however, the removal will provide additional environmental restoration

benefits to the system as well as provide maintenance benefits for the dredged channel. Planting and restoration for these areas where the phragmites is removed are expected to take place in Spring 2023 to coincide with the planting window.

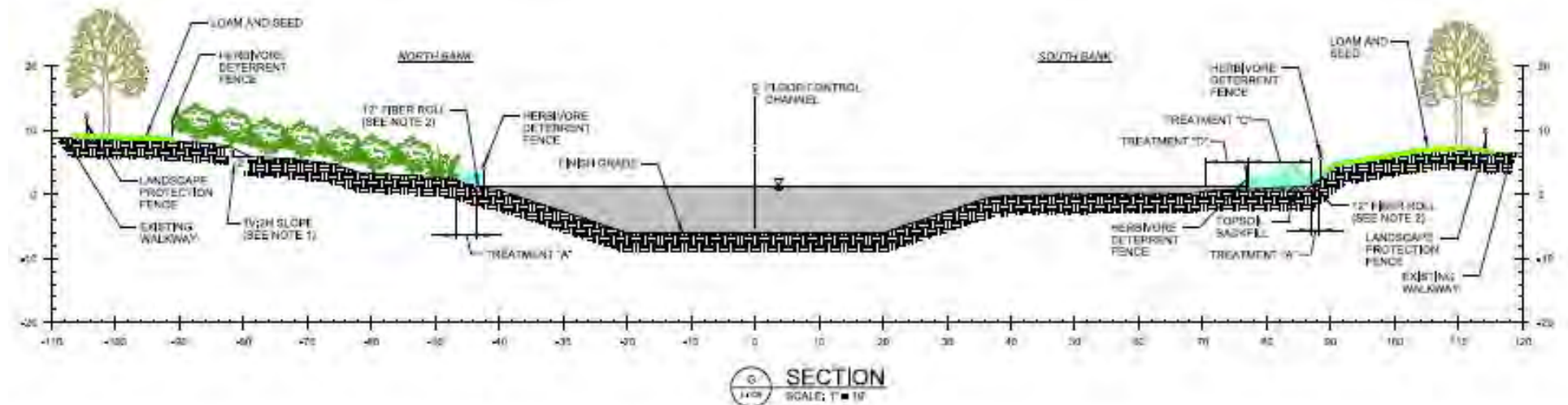
- At the end of this notice we have included some pictures that show the construction progress at Work Areas #1, #2, #5, #10, #11, and #12. We thought folks would be interested in seeing the work occurring behind the fence.
- If you have any questions, require additional information or would like to be added to the Project Contact List, please email the project mailbox at MuddyRiver@usace.army.mil



EXTENTS OF PROJECT WORK AREA FOR PHASE 2 CONSTRUCTION



REPRESENTATIVE FIGURE OF FLOOD CONTROL CHANNEL AND PROPOSED IMPROVEMENTS





Work Area #1 – Leverett Pond – view of the pond with the sandbar island removed; and the bank planted and restored.
Plants will be maintained until October 2024 during the two-year guarantee period.



Work Area #2 – section of river at Brookline Avenue and the Riverway – area restored with plantings and access/staging areas restored with loam and seed. Plants will be maintained until October 2024 during the two-year guarantee period.



Work Area #5 – section of river by Short Street Bridge (looking downstream) – flood risk management channel dredged and the bank planted with trees and shrubs. Plants will be maintained until October 2024 during the two-year guarantee period.



Work Area #10 – section of river immediately downstream of Work Area #9 which ends at Agassiz Road – flood risk management channel dredged and phragmites removed from bank. Turf reinforcement mattress and wetland seed installed. Maintenance of planted material will continue until October 2024 during the two-year guarantee period.



Work Area #11 – Additional Phragmites Removal – section of river downstream from the central processing area near Agassiz Road – picture on left shows the phragmites cut and the area ready for dredging (late October); and picture on right shows the area dredged and phragmites removed (late November).



Work Area #11 – Additional Phragmites Removal – section of river downstream from the central processing area near Agassiz Road – picture on left shows the phragmites cut and the area ready for dredging (late October); and picture on right shows the area dredged and phragmites removed (late November). With the removal of the phragmites, the Boston Fire Department can be seen from across the river!



Work Area #11 – Victory Gardens Area – section of the river downstream of Agassiz Road Bridge – restored banks with trees, emergent, and habitat logs. Maintenance of planted material will continue until October 2024 during the two-year guarantee period.



Work Area #12 – Additional Phragmites Removal – section of the river near Boylston Street Bridge – amphibious excavator removing the phragmites. View looking across the river – with the phragmites removed – you can see the newly constructed floodwall at the Boston Fire Department Building.



Work Area #12 – section of river at Boylston Street Bridge – Flood risk management channel dredged and the bank planted at the Victory Gardens.



Work Area #12 – Additional Phragmites Removal – section of the river near Boylston Street Bridge – phragmites cut and the area ready for dredging.