

# CONSTRUCTION OBSERVATION REPORT

<b>Date:</b> August 3, 2021	<b>Time On Site:</b> 9:45 AM	<b>Time Off Site:</b> 2:00 PM
<b>Project:</b> Middlebury River Flood Resiliency Project (15032.00002)		
<b>Observed By:</b> Brian Cote		
<b>Weather:</b> Sunny, $\pm 70^{\circ}\text{F}$ , flows above normal and dropping		

## Equipment / Operator

- CAT 325CL Excavator – Markowski Excavation, Inc.
- CAT 259D Skid Steer – Markowski Excavation, Inc.
- On-Road Dump Trucks – Markowski Excavation, Inc.
- CAT 336EL Excavator – Markowski Excavation, Inc. (moved to Goodro Lumber)
- CAT D350E Off-Road Haul Unit – Markowski Excavation, Inc. (staged at Goodro Lumber)
- Coring Operation – Catamount Concrete Cutting (at Grist Mill Road floodwall)
- Atlas Copco Smartroc T40 Rock Driller – Walter S. Pratt & Sons, Inc. (at Grist Mill Road floodwall)

## Personnel

- Tyler Truman (Site Superintendent / Operator) – Markowski Excavation, Inc.
- Dana Truman (Operator) – Markowski Excavation, Inc.
- Tom Markowski – Markowski Excavation, Inc.

## Construction Activity

- Installing stone armoring along the Ossie Road Berm near/on the Murray Parcel. Removing stockpiled sediment and transporting to disposal site in Brandon.
- Coring through the Grist Mill Road floodwall.

## Design/Construction Notes

- Sediment on Gravel Bar A, B, and C and at Flood Chute 1A and 1B has been removed down to the water level. Contractor moving excavator over to Goodro Lumber to begin prepping the work area.
- Installation of stone armoring along the river edge is complete, alignment to follow existing berm that turns away from the river.
- Contractor installed several root wads with log into the stone armoring, root wad set at the waterline.
- Stone armoring to continue at the Ossie Road Berm near the Murray parcel for the remainder of the week, estimated completion by Friday August 6<sup>th</sup>.
- Work at the Goodro Lumber site is underway, beginning with grubbing and building river access.
- Contractor planning to complete removal of sediment on the gravel bars and flood chute entrances first, before beginning the stone armor installation.
- There are several log and wood chip piles located on or to the north of the berm within the work area at the Goodro Lumber site. Contractor will need to remove in order to perform the work.
- Rock driller delivered to the Grist Mill Road floodwall to continue work coring through the existing wall. A combination of concrete coring and rock drilling underway.

- Concrete coring operation being used to core 1-2 feet into the wall to create a pilot hole, then rock driller completes the remainder of the hole.
- While on site, 9 holes were underway at various stages of completion. 3 holes were thru the wall and complete and a 4<sup>th</sup> was underway, and 5 pilot holes were complete with the 6<sup>th</sup> underway.
- Coring through the concrete wall will continue until complete, Contractor anticipates finishing this week.
- Access road along floodwall properly built and pushing river south. Edge armored with large existing stone near wall and access road topped with gravel. No turbidity in river.
- Berm downstream of existing floodwall has been largely removed. Flood contingency plan is to pull up road material or import large boulders to reform berm if large flood is predicted.
- Spill kits are staged at both the Ossie Road Berm and Grist Mill Road Floodwall work sites.
- While on site, discussed quantities and percent work complete with Tom M. and Tyler T. of Markowski as they prepare the 2<sup>nd</sup> Payment Application. The final pay application to be sent to the Town on August 5<sup>th</sup> in order to be forwarded to the Selectboard ahead of the August 10<sup>th</sup> meeting.

#### **Compliance Notes**

- Project limit tape properly installed.
- Traffic control signs properly posted.
- Minimal turbidity in river observed while on site.
- No tracking onto roadway surface observed while on site.

#### **Schedule**

- Stone armoring installation to continue at the Ossie Road berm near the Murray Parcel, anticipate August 6<sup>th</sup> completion date.
- Coring for anchors to continue at the Grist Mill Road floodwall, anticipate August 6<sup>th</sup> completion date.
- Installation of ground anchors at the existing floodwall tentatively scheduled for the week of August 9<sup>th</sup>.
- Installation of sheet piling at the existing floodwall tentatively scheduled for the week of August 16<sup>th</sup>..



## Photographs



**Figure 1: Stone armor installation at the Ossie Road Berm near the Murray Parcel.**



**Figure 2: View of gravel bar after sediment removal looking upstream, flows remain higher than average, stone armoring in the foreground to be covered with grubblings, seed and mulch, and joint plantings.**





**Figure 3: View of gravel bar after sediment removal looking downstream, flows remain higher than average for this time of year, with water flowing on the remaining edge of gravel bar.**



**Figure 4: Concrete coring and rock drilling operation set up at the Grist Mill Road floodwall..**





***Figure 5: Rock driller completing holes at the Grist Mill Road floodwall.***