SV R3P2 Stream Restoration

Project Monthly Construction Notes: 11/1 to 11/30/2020

Date: 11/30/2020
By: Sharla Benjamin – Boulder County
Otak – General Design Engineering Firm, ECOS – Vegetation Design Firm, Zak Dirt – Contractor, Western States Reclamation – Vegetation Subcontractor
Location: St. Vrain Reach 3 Phase 2, Western Mobile Parcel 2
Project Owner: Boulder County

Work in Progress/Completed:

1. Water control phase completed, after last grout pours were performed to complete south side of stop log bay area

2. Sheetpile installation completed to-plan, and upper bypass structure from Sta. 9+00 to the upstream transition with the St. Vrain was completed for punch list review

3. Soil preparation, amendment, and seeding was completed prior to coir fabric installation

4. Punchlist reviews the weeks of Nov. 16th and 23rd by Ditch Representatives Larry Beck and Kevin Boden, Otak, Zak Dirt, and BCPOS

5. Willow preparation and soaking by BCPOS and installation by Western States, inspections by Otak and BCPOS

6. Maintenance and removal of access/post-construction erosion and sediment control/pollution prevention measures
11-3-20: Water control in place in preparation for last large grout pour, picture taken facing upstream and West at upper bypass structure

11-3-20: Evening grout pour, working on placement to allow fish escape from section of ditch supply channel between ditch water control structures, picture taken facing NE and downstream

11-6-20: Work continues to get to plan grades for fish passage channel alignment

11-11-20: Substantial progress on fish passage channel alignment with cobble and habitat boulders
11-13-20: View of 11/6/20 installed biodegradable erosion control logs

11-13-20: Grading continues at transition area for the fish passage channel, and the fish escape area is reviewed and modified to provide additional hydraulic resting spots for fish

11-17-20: Fish passage channel grading around the stop log bays and the stream transition area continues

11-17-20: Willow poles brought out of cold storage by BCPOS Vegetation Specialist and ends trimmed and placed to soak in the St. Vrain prior to installation by sub-contractor
11-17-20: Stop logs tested for the first time (treated wood, later replaced with untreated wood), water quickly backed up into pool and started flowing through fish passage channel, Otak on-site for inspection
11-18-20: Western States on-site installing coir fabric, view of fish escape area of the stop log structure (stainless steel ladder submerged)
11-24-20: Otak and Zak Dirt discussing changes needed per the punchlist in the upper bypass structure area and transition

11-30-20: BCPOS Vegetation Specialist inspection of the willow pole installation in the fish passage channel
Upcoming Work:

1. Punch list completion by both Zak Dirt and Western States

2. Additional pay items including stop log bay pullers, once contract amendment #2 has been signed

3. Willow stake installation in the Spring of 2021

4. Completion of demobilization and access road treatment as part of the demobilization (also partly covered by contract amendment #2)

5. Testing of irrigation system to occur early April 2021 when spring thaw occurs, agreement needed to provide training for operation and maintenance during initial spring test and fall shut-down end of October 2021

6. Maintenance and removal of access/post-construction erosion and sediment control/pollution prevention measures