Reach 4b SSV1 and SSV2
Weekly Construction updates

Date: 8/10/2017
By: Prashant KC
Location: South St. Vrain, West of Lyons, CO
Project Sponsor: Boulder County

Work in Progress/Completed
1. Relocation of existing power pole at main channel St. 87+50 and 71+60.
2. Completed construction of large woody structure (Type 2) at main channel St. 52+00.
3. Clearing and grubbing, and removal of debris in overflow channel C between St. 2+80 to 8+60.
4. Mass grading and offsite disposal of excavated materials from overflow channel C between St. 2+80 to 8+60.
5. Floodplain benching, mass grading and salvaging onsite embedded rocks for several design structures between main channel St. 78+00 to 81+50.
6. Completed construction of rock outfall structure, soil conditioning in overflow channel F.
7. Sort, screen, & stockpile creek bed and floodplain materials between main channel St. 60+50 to 64+60.
8. Main channel mass grading and native stream substrate replacement between St. 60+50 to 64+60.
9. Rock screening operation in progress to generate rock mix of specified classes from overflow channel B.
10. Large woody materials sourcing from few Boulder county properties in progress.
11. Inert material disposal, compaction and testing at quarry site in progress.
12. Completed drone flight of entire project.
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Upcoming Work
1. Construction of Riffle crest, face and pool at main channel St. 62+00, 67+70 and 70+50.
2. Construction of floodplain sill at overflow channel St. 10+50
3. Preparation to install LWS at main channel 64+00
4. Complete excavation of overflow channel C between St. 2+80 to 12+50.
5. Clearing and grubbing, and coarse fill in overflow channel D.
6. Rough excavation of overflow channel C and E in preparation to install Knick point stabilization rock structures.
4. Clearing and grubbing, removal of flagged tress and stripping native streambed between main channel St. 59+00 to 77+00.
5. Install Beaver Dam analogue posts in overflow channel E St. 3+30 and 1+25.
6. Continue removing and harvesting flagged trees (6-12” and 12” + DBH).
7. Continue survey of channel centerline, bankline, project limits, instream and floodplain features and as-builtons.

Other Notes
1. Design clarification and field fit of rock and large woody structures.
2. Streamlining methods of measurement and payment.
3. Adjustments of schedule projections depending on task complexity and available resources.
4. Prioritization of large woody structure based on design intent.

Upstream view: Salvaging embedded rocks between main channel St. 78+00 to 81+50.

Material disposal at Quarry site
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Rock screening from overflow channel B

Upstream view: Mass grading of overflow channel C

Downstream view: Installation of riffle crest at main channel St. 62+00 in progress.

Designated rock mix for riffle face at main channel St. 62+00.