

Project Name: Permanente Quarry

Waterway's Job No: 13-016

Prepared by: BMZ and MWW

Date: April 20, 2021

Permanente Creek Restoration Plan - Construction Schedule

Year 1

- Concrete-Lined Channel. Install native riparian vegetation along the southern bank at locations void of native species along approximately 1,575 linear feet of channel. Sta. 6+60 to Sta. 22+35 (See Sheet L1).
- Channel Widening - Perform approximately 1,450 linear feet of grading to create an inset floodplain bench and reduce the existing road width. Sta. 16+00 to Sta. 30+50 (See Sheets C11-C13 and L2).
- Remove Culvert #7 and construct an open channel segment.
- Remove sediment from tributary and fan along southern bank of Permanente Creek. Sta. 34+00 to Sta. 35+00 (See Sheets C14 and L3).
- Revegetate all areas disturbed by construction during Year 1.

Year 2

- Rock Pile Area - Perform demolition and rough grading for approximately 800 linear feet. Sta. 89+00 to Sta. 97+00. Pond 13 and Culverts #10 and #11 to remain.
- Revegetate all areas disturbed by construction during Year 2.

Year 3

- Rock Pile Area - Remove Culverts #10 and #11 and the Pond 13 infrastructure. Construct a maximum of 1,345 linear feet of restored channel. Sta. 87+45 to Sta. 100+90.
- Revegetate all areas disturbed by construction during Year 3.

Year 4

- Channel Widening - Perform 1,775 linear feet of grading to create an inset floodplain bench and reduce the existing road width. Sta. 69+70 to Sta. 87+45.
- Remove Culverts #8 and #9 and construct open channel segments.
- Revegetate all areas disturbed by construction during Year 4.

Year 5

- Remove Old Crusher Foundation.
- Material Removal Area - Perform mass grading to lower haul road and Pond 4 access road for approximately 1,100 linear feet. Sta. 139+00 to Sta. 150+00. Construct access road down to channel to locate bedrock at critical locations along the design alignment.
- Revegetate all areas disturbed by construction during Year 5.

Year 6

- Material Removal Area - Construct a maximum of 1,945 linear feet of restored channel. Sta. 132+40 to Sta. 151+85.
- Revegetate all areas disturbed by construction during Year 6.