



Planning & Building Services

Infiltration Trench & Landscaping



Planning & Building Services – Parking & Turf

120 W. Fir St., Fort Bragg

Benefit Table

- Primary
 - In-Stream flow improvement
 - Reduce stormwater run-off rate and volume
- Secondary
 - Re-establishment of natural hydrographs
 - Re-establishment of groundwater supply
- Cost
 - \$56,000.00
- Metric
 - Annual Rainfall – 43 inches
 - Impervious Area - .4 acres
 - Volume Captured (85th percentile) – 1.2 Acre-Feet per Year
 - Cost per Acre-Foot (over 20 years) - \$2,292.00

This project proposes to install a 250 foot infiltration trench with valley gutter in the parking lot, and remove and replace the existing turf with native, drought tolerant landscaping.

Drought tolerant, native landscaping in areas with wet winters and dry summers will allow less use of water, fertilizer and pesticides than a typical lawn. Native plants are welcome shelters for native birds and insects providing natural pollinators and natural pest controls. Once established, native plants require little maintenance and are effective at storing greenhouse gases, such as carbon dioxide.



An infiltration trench is a type of best management practice (BMP) which manages stormwater run-off, prevents flooding and downstream erosion, and improves water quality in an adjacent river, stream, lake, or ocean. It is a shallow excavated trench filled with gravel or crushed stone that is designed to infiltrate stormwater through permeable soils into the groundwater aquifer. The trench is designed to capture stormwater run-off in the void spaces between the rock and gravel and allow it to slowly infiltrate through the bottom of the trench and eventually through the soil beneath. They are highly effective in removing targeted pollutants from stormwater run-off.