

Bioswale

GREEN 🎘 INFRASTRUCTURE



A bioswale is landscaping feature used to slow, collect, infiltrate, and filter stormwater. At the Jeff Seymour Family Center, the bioswales are designed to provide shade, reduce water use, improve air quality, and provide habitat for birds, butterflies, and native plants. Bioswales enhance the campus experience by creating a more naturalistic environment.



This area of grass was hot, with no shade, and saw little use. The grass required a large amount of water and had poor habitat value



Grass





Stormwater Capacity

V

1800

V

126

\$28,000

Habitat Value

10 °F Heat Island Reduction suranting water reliction in process condition

Promotes Physical Activity

Greenhouse Gas Uptake

Value of GHG Uptake

Funding for this project has been provided by the California Greenhouse Gas Reduction Fund through the California Department of Forestry and Fixe Protection (CAL FIRE) Urban and Community Rejectivy Programs







Campia; green infrastructure praprocess by AMHGOS DE LOS RIOS, a SCHICLE www.nmigosale.comiosong





Jeff Seymour Rain Garden

GREEN AT INFRASTRUCTURE ELEMENT



A rain garden is a planted depression that absorbs stormwater runoff from impervious urban surfaces, recharging our groundwater supply. Rain gardens located throughout the Jeff Seymour Family Center collect and infiltrate water from rooftops, sidewalks, asphalt blacktops, and parking lots. These rain gardens also help cool surrounding surfaces and provide habitat for native plants, birds, and butterflies.









Stormwater Capacity

V

7000

Habitat Value

10°F

Heat Island Reduction

Promotes Physical Activity

420

Greenhouse Gas Uptake

428

S Value of GHG Uptake

\$94,000

Asphalt / Grass

NOWATERINERERATION

HIGH WATERUSE POORHABITAT VALUE Funding for this project has been provided by the California Greenhouse Gas Reduction Fund through the California Department of Forestry and Title Protection (CAL FIRE). Ultion and Continually Forestry Program.







Computation inflathable preimplemented through a community cased process by AMIGCS DE LCS Pro5, a 5011QS www.amigosdefortio.com





Jeff Seymour Rain Modules

GREEN TIPE INFRASTRUCTURE ELEMENT



Rain modules collect and help infiltrate stormwater. In a heavy storm, water fills the empty space inside the modules, allowing time for the water to seep into the soil below. As gravity pushes the water through layers of soil, it is naturally cleaned before reaching our underground water supply. At the Jeff Seymour Family Center, rain modules were strategically installed underneath rain gardens cut out of the school blacktop.









Stormwater Capacity

V

400

Habitat Value

13 °F

Heat Island Reduction

Promotes Physical Activity

V

Greenhouse Gas Uptake

39

S Value of GHG Uptake

\$9.000

Randing für this project has been provided by the California Greenhouse face Reduction Face through the California Department of Forestry and Rive Protection (CAL FRIE), Urban and Community Sourthy Fragram.







Campungrees infrastructure plan Implemented through a community-based process by AM GOS DE LOS RIOS, a SOTICOS www.amagosseessississorg









Sidewalk Furrow

GREEN A INFRASTRUCTURE ELEMENT

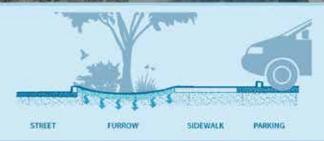


Sidewalk furrows are long, vegetated strips between the sidewalk and the street. The furrows have gently bowl-shaped depressions under a layer of mulch to capture stormwater running off nearby impermeable surfaces. Amigos de los Rios staff, volunteers and conservation corps workers removed grass and planted the furrows with native vegetation and shade trees, creating habitat and helping to cool the parking lot and sidewalk.













Stormwater Capacity

V

290

Habitat Value

10 °F

Promotes Physical Activity

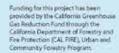
Heat Island Reduction

Greenhouse Gas Uptake

V

Value of GHG Uptake

\$20,000









Campus green infrastructure plan implemented through a community-based process by AMGOS DE LOS ROS, a 5011C/S.





Urban Forestry

GREEN AT INFRASTRUCTURE ELEMENT



Over 400 new trees were planted throughout the Jeff Seymour Family Center—cooling surfaces, creating habitat, improving air quality, capturing stormwater, and beautifying the campus environment. The grove of trees in front of you includes California native Oak, Hollyleaf Cherry, and Toyon. Cottonwood trees encircle the rain garden behind you.











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Stormwater Capacity



Habitat Value



Heat Island Reduction



Promotes Physical Activity



Greenhouse Gas Uptake





Value of GHG Uptake

\$268,000

Randing for fritz project has been provided by the California Greenhouse Gas Reduction Fund through the California Department of Forestry and fine Protection (CAL FRE), but an and Community Forestry Program.







Campus green infracts core plan implemented through a ceremum ty-blood process by AMIGOS DE LOS RICS, a 501/CIX inves an igoadelocitica or







Jeff Seymour | Walking Paths

GREEN A INFRASTRUCTURE

Studies have shown that exposure and access to green space improves academic behavior and positively affects mental and physical health. The walking paths at the Jeff Seymour Family Center provide opportunities for physical fitness in a more natural setting. A walking path loops around the campus field and alongside a bioswale shaded by native Cottonwood, Sycamore, and Oak. In the blacktop area, planting space was cut out of asphalt, creating paths amongst native trees and shrubs.









Funding for this project has been provided. by the California Greenhouse Gas Reduction Rund through the California Department of Forestry and Rive Protection (CAL FIRE). Entrain and Community Forestry Program

Value of GHG Uptake





\$139,000

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Grass Field



Jeff Seymour Family Center Stormwater Basin

GREEN FINERASTRUCTURE ELEMENT



A stormwater basin is a large depression in the landscape that detains and absorbs stormwater runoff, helping to recharge our groundwater supply. During large storms, hundreds of gallons of water flow across the campus field and parking lot towards street storm drains. The basin captures this water before it reaches the street and acts as an overflow area for the nearby bioswale.









Grass Field

Campus green infrastructure part impressented through a community-based process by MMIGCS DE LOS WOS, a 50 HCU www.amigcodelosi os.brg

Runding for this project has been

provided by the California Greenhous Gas Roduction Fund through the California Department of Forestry and Rive Protection (CAL PRE), Urban and Community Forestry Program.





Jeff Seymour Bioswale

GREEN **INFRASTRUCTURE**

A bioswale is landscaping feature used to slow, collect, infiltrate, and filter stormwater. This bioswale captures stormwater running off the field. Designed like a dry stream bed, the bioswale is planted with California native trees and shrubs. A pipe directs excess water to the stormwater basin to the southeast.









Metrics

Stormwater Capacity

3700 cubic feet V

Habitat Value

10 °F Heat Island Reduction

Promotes Physical Activity

Greenhouse Gas Uptake

Value of GHG Uptake

\$28,000

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Funding for this project has been provided by the California Greenhouse Gat Reduction Fund through the Cilifornia Department of Forestry and Fire Protection (CAL FIRE), Urban and Community Forest's Program.







Campus green imbastructure plan Implemented through a community-based brooks by AMIGOS DE bOS ROS, a 501 (Cit. www.amigosdelogios.cng





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Jeff Seymour Family Center | Bike Safety Track

INFRASTRUCTURE ELEMENT



The Jeff Seymour Family Center bike safety track is an innovative resource for the community to learn to safely ride city streets. The track was created by removing asphalt from the campus blacktop and resurfacing the area with a "cool pavement" coating, reducing surrounding temperatures. The asphalt cut-outs capture stormwater runoff and are planted with trees and native shrubs.













Value of GHG Uptake

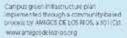
Funding for this project has been provided by the California Greenhouse Gat Reduction Fund through the Chilfornia Department of Forestry and Fire Protection (CAL FIRE), Urban and Community Forest's Feogram.







\$9,800







Bike Skills Track

GREEN INFRASTRUCTURE ELEMENT



With a view of the San Gabriel Mountains, this bike skills 'pump' track is a place to practice off-road biking skills. The track continues around the field with 'table tops' that connect to the children's bike skills area. The track is surrounded by a walking path and planted with native trees. The Bike Skills Track is not yet open to the public. Please contact Amigos de los Rios or Bike SGV for information about use of the track.









Stormwater Capacity

Habitat Value

Heat Island Reduction

Promotes Physical Activity

Greenhouse Gas Uptake

Value of GHG Uptake

Funding for this project has been provided by the California Greenhou ies Reduction Fund through the California Department of Forestry a Fire Protection (CAL FIRE), Urban and Community Forestry Program.







V

9°F

V

\$18,500

Campus green infrastructure plan implemented through a community-b process by AMIGOS DE LOS RIOS, a 5011CL











Kids Bike Skills

GREEN Ø INFRASTRUCTURE ELEMENT



The Kids Bike Skills Track is a place for children to get exercise in a natural setting and practice off-road biking skills. The track surrounds a rain garden and stormwater basin and is bordered by native trees and shrubs. The Kids Bike Skills Track is not yet open to the public. Please contact Amigos de los Rios or Bike SGV for information about use of the track.

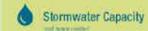




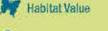








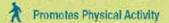






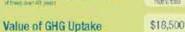
V

84

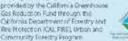


Heat Island Reduction













Campus green inflatoriucture prantimplemented through a community based process by ANYGCS DE LOS BIOS, a 501/CM www.amigocde.losmic.org





Jeff Seymour Family Center | Community Garden

INFRASTRUCTURE



These community garden boxes are located throughout the Jeff Seymour Family Center, making food production accessible to the students, staff, and visitors of the center. Many of these boxes are tended by students of the Opportunity Program and have become an extension of the classroom, giving students hands-on learning in science, math, art, and nutrition.









Forking for this project has been provided by the California Greenhouse Gas Reduction Fund through the California Department of Forestry and Fire Protection (CAL FIRE). Littors and Community Forestry Programs



Compact green inflact ucture pracimplemented through a community-based process by AAAGOS DE LOS RICS, a SON-CLI. www.amigospeloanos.org







Jeff Seymour Family Center Permeable Parking

GREEN **INFRASTRUCTURE**



When stormwater flows across parking lots, it picks up oils, metals and other pollutants along the way which end up in our storm drain system. Infiltrating water on site helps protect our water supply. At the Jeff Seymour Family Center, permeable parking solutions include rain gardens cut out of the asphalt, gravel parking spaces, and pervious concrete, all of which help absorb stormwater runoff.







circular grid system. It allows for both parking and stormwater infiltration.



Metrics

Stormwater Capacity

Habitat Value

Heat Island Reduction

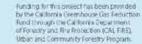
Promotes Physical Activity

Greenhouse Gas Uptake

Value of GHG Uptake

\$6,000

V







Comput green infrastructure plan implemented through a community-based process by AMRIGOS DE LOS RIOS, a SOTTORE www.amig.,dekrdib..org







Jeff Seymour Family Center Pervious Concrete

GREEN FINERASTRUCTURE ELEMENT



Pervious concrete is a special type of concrete that allows water to pass directly through, helping to absorb stormwater runoff and to recharge our groundwater supply. Look down at the concrete you're standing on. Can you see the difference? At the Jeff Seymour Family Center, pervious concrete was installed at strategic locations in the sidewalk and parking lots.







Regular Concrete

NO WATER WEILTRARCH

Pervious Concrete



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Jeff Seymour Family Center | Cool Pavement

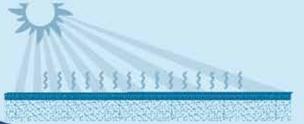
INFRASTRUCTURE



Dark-colored pavement, like the asphalt of school blacktops, absorb and store large amounts of sunlight, contributing to the Urban Heat Island effect and creating hot, unpleasant conditions for people. At the Jeff Seymour Family Center, large areas of asphalt are covered with a solar reflective coating which stays cooler in the sun. Asphalt was removed in many other areas of the blacktop to create planting space for trees and shrubs, further cooling the pavement.











Hunding for this project has been provided. by the California Greenhouse Gas Restuction Rund Immugh the California Deportment of Forecay and Rive Protection (CAL FIRE). Urban and Community Forestry Program



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Jeff Seymour Rain Barrels

GREEN Ø INFRASTRUCTURE ELEMENT



The rain barrels throughout the campus courtyards capture stormwater from the roof and condensation from air conditioning units for use in the community gardens. Installation of these rain barrels and their pedestals were part of an Eagle Scout project by Troop... <coming>

BEFORE

AFTER

COMING SOON

Metrics

Stormwater Capacity

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Habitat Value

Heat Island Reduction

Promotes Physical Activity

Greenhouse Gas Uptake

S Value of GHG Uptake

funding for this project has been provided by the California Givernouse Gas Reductor Rand through the California Department of Foreign and fire Protection (CAL FFE). Utban and Community Foreign Program.





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