



Engineering Solutions Curriculum: *Exploring Possible Solutions*

Exploring Possible Engineering Solutions



- Rain gardens
- Planting trees/native plants
- Mulching and improving soils
- Bioswales/curbcuts
- Detention ponds
- Green roofs/walls
- Downspout splash blocks
- Rock- filled trenches
- Rain barrels/Cisterns
- Installation of pervious surfaces or reducing pavement (pavers, concrete, asphalt,)
- Storm drain filters





Rain Gardens





Plantings



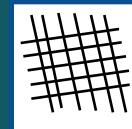


Trees





Mulch and Soil Improvements





Bioswale



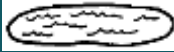


Curb Cut and Bioswale-





Detention Pond





Green Roof





Green Wall





Downspout Splash Block





Rock Filled Trenches

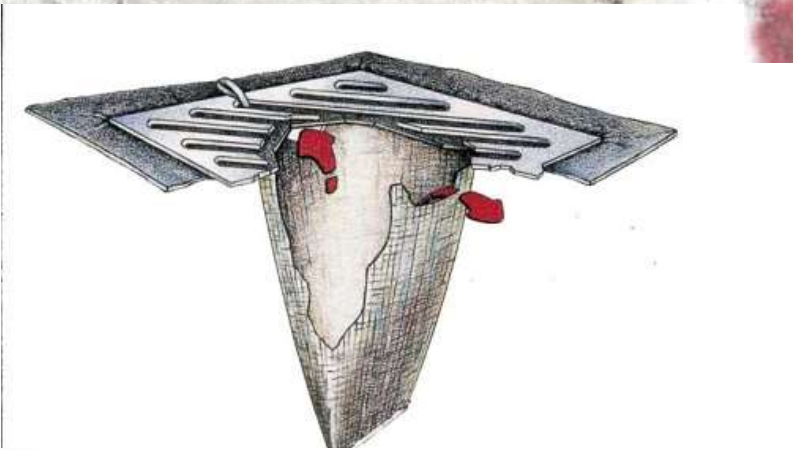


Rain Barrel and Cisterns





Pervious pavement and Pavers



Storm Drain Filters



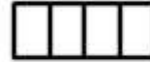
Storm Drain



MAP LEGEND
Engineering Solutions



Rain Garden



Storm Drain



Plantings



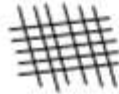
Storm Pipe



Trees



Downspout splash



Mulch



Rain barrel or cistern



Retention Ponds and Bioswales



Pervious concrete or asphalt



Green Wall/Roof



Curbcut

Problem areas



An aerial photograph of a residential neighborhood. The image shows a mix of green spaces, including a large wooded area on the left and several green fields. A network of roads and parking lots is visible, along with numerous houses and apartment-style buildings. A prominent teal banner with white text is overlaid in the upper-middle section of the image.

This is our Neighborhood

An aerial photograph of a city, showing a dense urban grid, green spaces, and a river. A teal rectangular box is overlaid on the left side of the image, containing the text "Our City" in white. The city is surrounded by green fields and forests, with a river winding through the urban area.

Our City

An aerial photograph of a school district, showing a mix of residential areas, green spaces, and roads. A teal rectangular box is overlaid on the top left, containing the text "Our School District" in white. The background image shows a dense network of roads and buildings, with several large green areas interspersed throughout. The overall tone is somewhat muted, with a focus on the layout of the district.

Our School District

An aerial satellite photograph of a watershed. The left side of the image shows a city with a grid street pattern and several large, dark, irregularly shaped water bodies. The right side is dominated by dense green forest. A teal rectangular box is overlaid on the right side, containing the text "Our Watershed".

Our Watershed

An aerial photograph showing a complex, branching waterway system, likely a fjord or a large estuary, with a teal text box overlaid on the left side. The water is dark, and the surrounding land is green and brown. The text box contains the text "Our Puget Sound".

Our Puget Sound

