

# North Base Garage Green Roof Replacement Project

Shoreline, Washington



Landscape architect responsible for the design and preparation of plans and specifications and construction observation for a 2.5-acre green roof at the Metro North Base bus maintenance site. The green roof is a community asset and includes a large open space play field, perimeter landscaping, and an employee plaza with landscaped planters. Soil mixes, root barriers, irrigation, and drainage were key components in the design.

Benefits included a savings of more than \$16,000 by eliminating disposal fees and reducing the need for Cedar Hills to buy new sod.

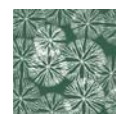


Sustainable win-win solutions were implemented: soil reuse and sod reuse. All 3,000 tons of onsite soils were reused; saving 63 million Metric British thermal Units of energy. That is equivalent to the annual green house gas emissions from more than 65,000 passenger vehicles. This step also eliminated unnecessary transport to a landfill and a \$122,000 saving from not buying new soil and not paying for disposal fees.



**Project:**  
North Base Green Roof Replacement Project  
**Client:**  
King County  
**Location:**  
Shoreline, Washington  
**Site:**  
2.5 acre green roof  
**Services:**  
Preliminary and final design and construction documents for landscape planting and automatic sprinkler irrigation system, cost estimating, and construction observation.  
**Project Role:**  
Landscape architecture consultant to CDM Smith.

Two acres of sod was salvaged from the roof and then reused to cover refuse at the Cedar Hills Regional Landfill.



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Recreation Planning  
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