

PROJECT SPOTLIGHT: UTILITY INFRASTRUCTURE

Stabilizing Infrastructure Through Innovation: Defending Ecosystems, Delivering Reliability

100% In-situ soil stabilized – No imported material	All Weather Friction and Accessibility	100% Compliance with All Environmental Requirements
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CHALLENGES

- Stabilize the native material (comprised of A-3 soil) - which provides little structural support without modification.
- Construct a surface that blends in with the natural surroundings to discourage unauthorized use by ATV and off road vehicles.
- Prevent erosion and ensure all-weather accessibility, particularly through the heavy rain season.
- Minimize environmental impact to avoid disturbing the extremely sensitive dune ecosystem.

SOLUTION

- Collaborated with the Coastal Commission and on-site botanist to develop a solution that ensures zero impact to delicate local fauna and flora.
- Stabilized the upper 18" of the dune sand with Midwest's SF2 System: Eco-Pave[®] and Fibers.
- Applied an Eco-Pave[®] seal coat to the installed surface to protect from weather, traffic, and erosion.

RESULTS

- **Natural Appearance:** Midwest's stabilization system maintained the natural aesthetics of the dune, discouraging unauthorized use and access.
- **Durable and Reliable:** The stabilized soil demonstrates resilience to erosion and vehicular traffic, ensuring consistent and dependable access to utility infrastructure as required.
- **100% In-Place Material:** Stabilizing the in-place material eliminated the need to import additional materials – cutting cost and minimizing the ecological impact.
- **Environmentally Friendly Solution:** The Eco-Pave[®] installation demonstrated no negative ecological impacts and complied with all the project's environmental requirements.



PROJECT SUMMARY

Location: California
Industry: Utility Infrastructure
Customer: Utility Provider

A major utility provider needed a sustainable, environmentally responsible solution to stabilize access roads through protected sand dunes for power line maintenance. Traditional road construction was prohibited due to strict environmental regulations and the presence of endangered species. The company required a method that would allow heavy vehicles to traverse the dunes safely, especially during heavy rain seasons, without disturbing the delicate ecosystem.

To meet these needs, Midwest's SF2 System—combining an advanced polymer-based stabilizer with fibers—was installed to a depth of 18 inches, effectively stabilizing the marginal dune soil.

This innovative method demonstrates how utility companies can effectively balance robust infrastructure needs with environmental stewardship for future projects.

LOOKING FORWARD

Midwest's stabilization solutions provide utility companies with an environmentally responsible method for improving existing infrastructure and supporting the development of new projects. By prioritizing environmentally friendly solutions while delivering strong and reliable roadways, utility companies now have a proven solution that balances operational needs with environmental stewardship.