Damage to Private Roads

Construction workers, trucks, deliveries and equipment would use SCCEIA's privately owned roads and gatehouse. Current estimates being discussed indicate that construction could generate tens of thousands of vehicle trips over the life of the project.

Heavy construction vehicles cause severe damage to private roads by exerting extreme axle loads that crack pavement, crush subbases, and create deep ruts.

Private roads are rarely built to the same thick structural standards as public interstate highways, making them especially vulnerable to heavy machinery like dump trucks, concrete mixers, and excavators.

Types of Damage

- **Surface Cracking:** The immense weight causes stress fractures, alligator cracking (interconnected webs of cracks), and surface crazing in asphalt
- **Potholes and Divots:** Concentrated tire pressure breaks down weakened spots, creating holes and depressions where water pools and accelerates decay.
- **Edge and Corner Breaks:** Concrete private drives or strips suffer severe edge-shear and corner cracking as heavy dual-wheel axles roll near unsupportive margins.
- **Vibration Damage to Nearby Homes:** Heavy passing machinery generates low-frequency ground vibrations that can shake nearby structures, loosening foundations or interior drywall.

SCCEIA already faces substantial future costs associated with maintaining and eventually repaving its private road system. One important issue is how construction-related road damage or additional wear would be identified and paid for.

Key Point: These are private residential roads—not public arterial or commercial-access streets.