

Noise Mitigation Design Narrative

The project has been carefully designed to reduce potential noise impacts on surrounding areas, particularly adjacent residential neighborhoods. A combination of site planning and architectural elements has been incorporated to address sound attenuation.

1. Perimeter Fencing with Privacy Slats

An approximately 8-foot-high perimeter fence is provided around the facility. The fence includes privacy slats that limit direct lines of sight into the training areas, helping to reduce visual exposure and indirectly minimizing perceived noise impacts for neighboring properties.

2. Perforated Acoustic Barrier Wall

An approximately 8-foot-high perforated acoustic wall, approximately 18'-0", is located along the south side of the outdoor break area. This wall is strategically positioned to help reduce noise transmission toward the residential properties to the south.

The wall consists of a perforated fiberglass sound-absorptive panel system (SonaGuard®), designed to both absorb and block sound. The system achieves a Sound Transmission Class (STC) rating of 35 and a Noise Reduction Coefficient (NRC) of approximately 1.05, indicating high sound absorption performance.

The perforated panel design, combined with internal absorptive material, reduces reflected and transmitted noise, making it more effective than reflective barriers such as concrete.

3. Existing Landscape Buffer

Existing trees along the south side of the site are maintained and contribute to visual buffering between the facility and adjacent residential areas. While no new landscaping is proposed in this area, the existing vegetation continues to provide a degree of separation and contributes to the overall site context.

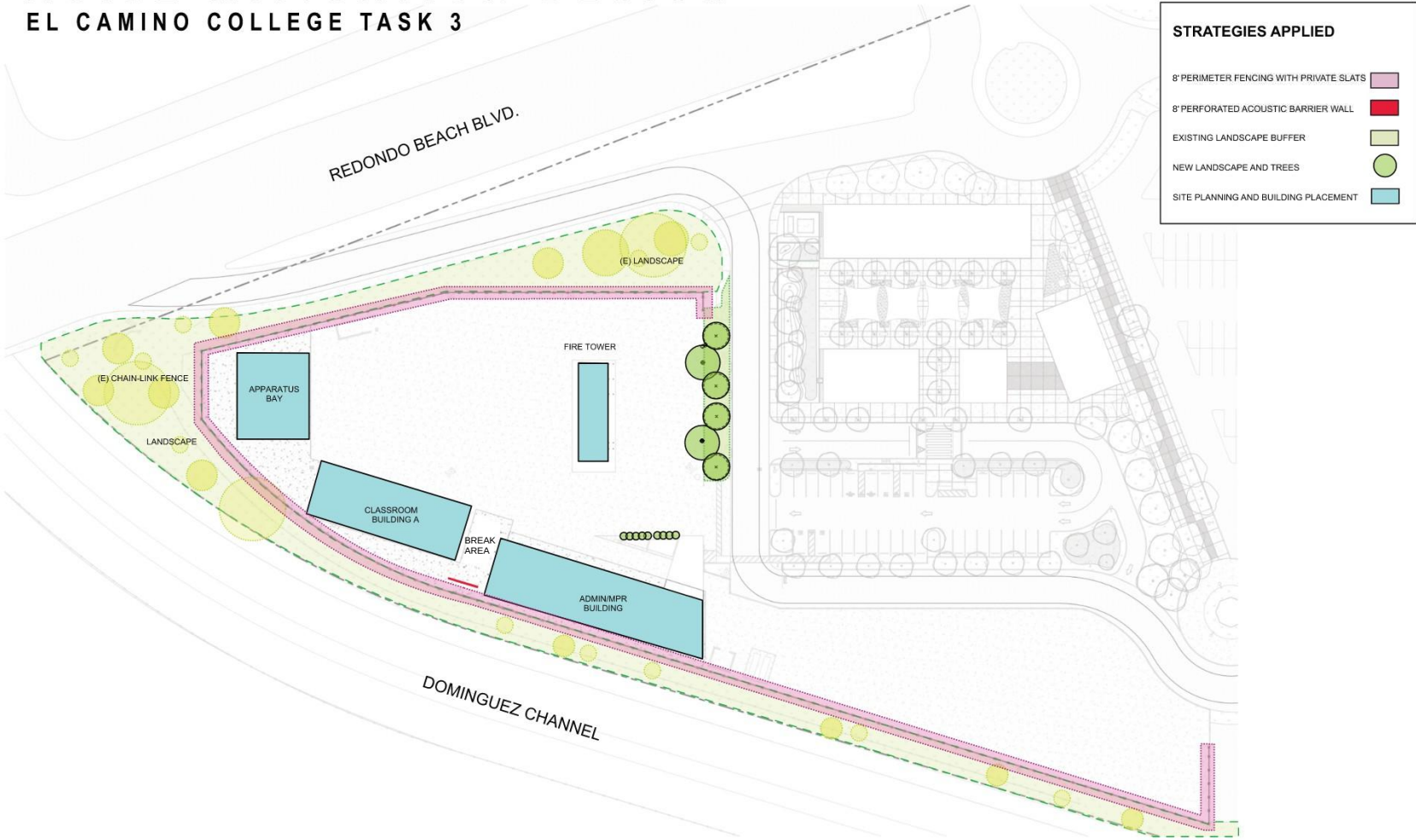
4. Site Planning and Building Placement

The arrangement of buildings and site elements has been considered to create separation between primary activity zones and nearby residential areas. This layout helps direct and contain sound within the site, contributing to overall noise mitigation.

These combined measures work together to reduce noise levels and support compatibility with the surrounding community.

NOISE MITIGATION DESIGN

EL CAMINO COLLEGE TASK 3



EL CAMINO FIRE TRAINING FACILITY

