

C. Pajarito Corridor West Planning Area

1. General Description

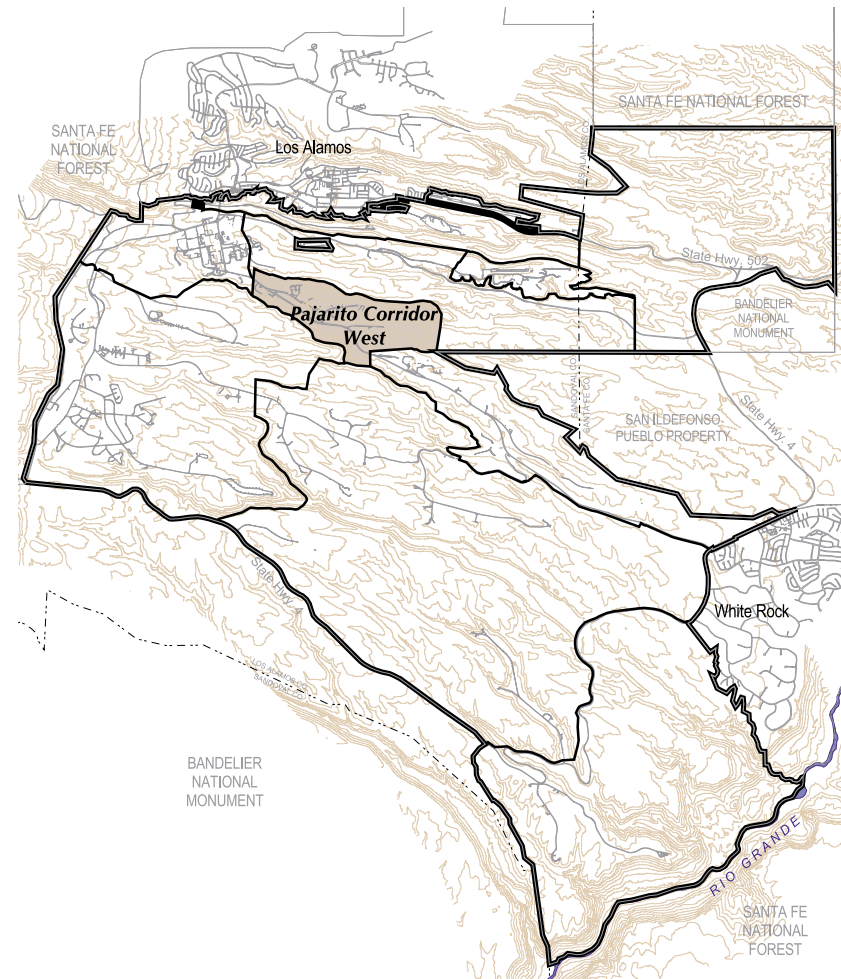
Pajarito Corridor West Planning Area lies between Mortandad Canyon on the north and Pajarito Canyon to the south as shown on Map VI-C1. Pajarito Road extends through the planning area for 1.7 miles, bisecting the area. Pajarito Corridor West Planning Area encompasses TAs-35, -48, -50, -52, -55, -63, -64, -66 and small portions of TAs-05 and -46.

The activities in the Pajarito Corridor West Planning Area are heavily focused on nuclear materials research and development, such as plutonium processing, nuclear safeguards research and development, and radiochemistry. Other work includes theoretical and computational activities, waste management and treatment, and industrial partnership activities.

The following assumptions will guide physical planning at the Pajarito Corridor West Planning Area for the next 10 years:

- *The Pajarito Corridor West Planning Area is the proposed location of the nuclear campus.*
- *The replacement CMR facility will be located at TA-55.*
- *SNM processing, storage and handling should be maximized in a single PIDAS-protected area at the nuclear campus.*
- *Other activities directly related to SNM should be located within the nuclear campus, but not necessarily within the PIDAS-protected area.*

Map VI-C1: Pajarito Corridor West Key Map



2. *Opportunities and Constraints*

The following opportunities and constraints affect physical planning within the Pajarito Corridor West Planning Area.

Physical Constraints

Federally protected species habitat, their related buffer zones and the steep slope of Pajarito Canyon encompass a significant portion of the Pajarito Corridor West Planning Area. Adjacent to the northern boundary are 100-year floodplains and associated wetlands. There are also 100-year floodplains at the southwest and southeast boundaries. The planning area also contains isolated wetlands in the northern half of the site. Development of these environmentally sensitive areas is discouraged.

Regarding seismic concerns, the *Structural Geology of the Northwestern Portion of Los Alamos Laboratory, Rio Grande Rift, New Mexico: Implications for Seismic Surface Rupture Potential from TA-03 to TA-55* reports that TA-55 sits in a relatively simple geologic structure. For TA-55 and the eastern portions of the study area, the potential for seismic surface rupture is thought to be extremely low because virtually no deformation in the last 1.22 million years can be documented.

Operational Constraints

Almost every major facility in the Pajarito Corridor West Planning Area has a nuclear source with associated safety analysis report (SAR) areas. Consequently this is one of the most-restricted areas at the Laboratory. Work within these areas is restricted to Laboratory and Laboratory contractor personnel only.

Various experiments are conducted in TA-35 that are very sensitive to vibrations. These experiments are normally conducted at night when there is less traffic and general activity.

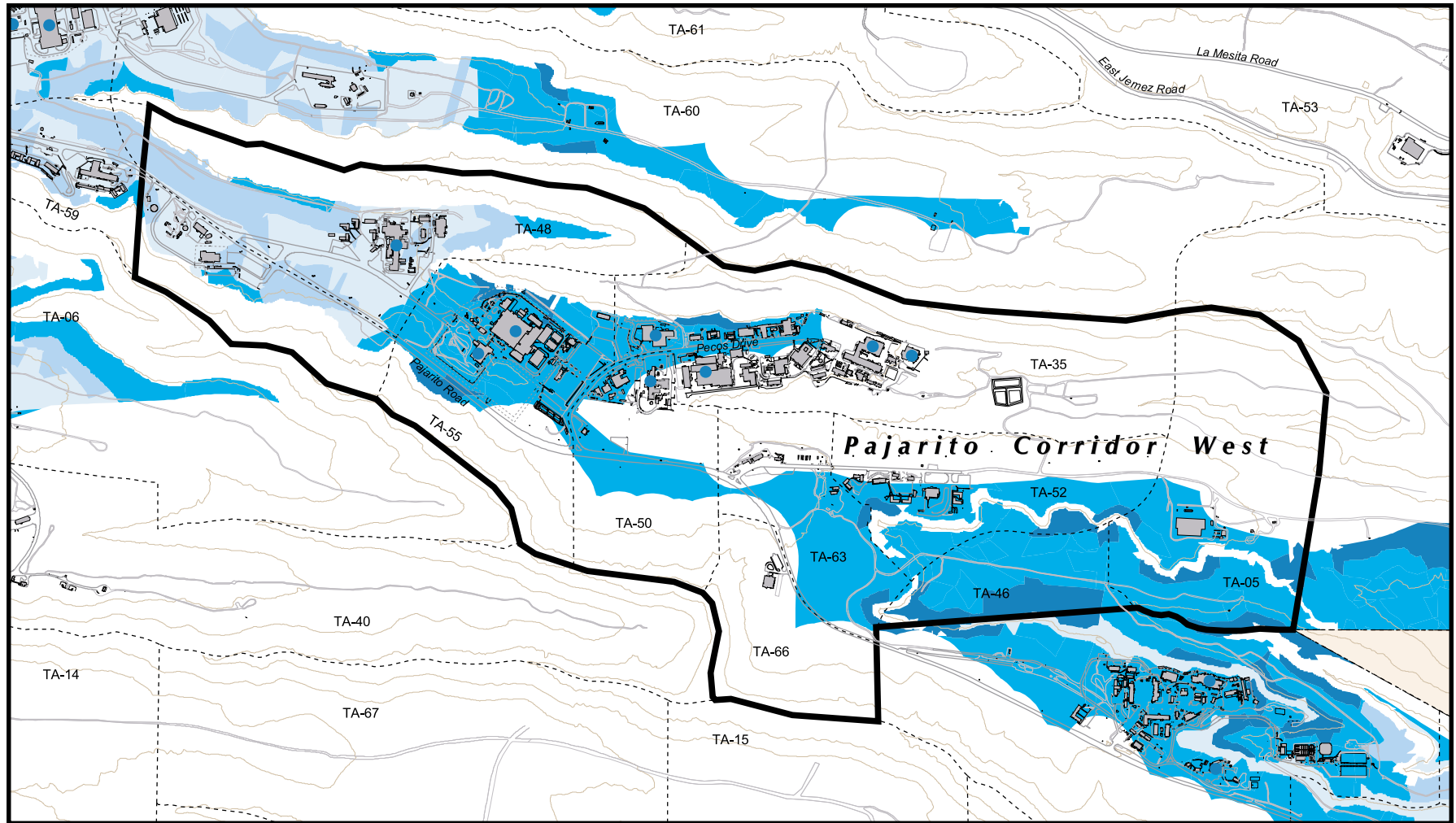
TA-50 is the primary location for Laboratory waste collection. The TA-50 waste facility complex is a hazardous, Category 3 nuclear facility. Radioactive liquid waste lines enter this facility from throughout the Laboratory. The current waste facility is 38 years old and nearing the end of its useful lifetime. There are eight radiation sources and contaminated areas in the northern half of TA-50. A possible new site for a radioactive waste treatment facility is TA-63. There is land available, and it is an appropriate location for siting such a facility.

Buildings identified as “Extremely High Risk” for seismic events within the Pajarito Corridor West Planning Area include Building 27 in TA-35 and Building 1 in TA-50.

Development Opportunities

Significant development opportunities are limited in the Pajarito Corridor West Planning Area as shown in Map VI-C2. Small parcels of developable land exist, such as east and west of TA-48 and -52, in the central part of TA-50, south of Pajarito Road, and in the southeast area of TA-66. Infill development at TA-35 and -55 is possible if permanent buildings are built to replace the small, temporary structures scattered throughout the areas. Utility and road access in this planning area is readily available.

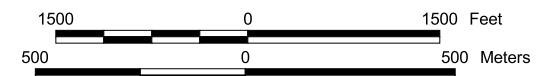
Map VI-C2: Pajarito Corridor West Development Opportunities Map



LEGEND

- Technical Area Boundary
- Non Dept. of Energy Property
- Planning Area
- Unique Operational and/or Physical Considerations Exist
- Excellent Development Potential
- Good Development Potential
- Fair Development Potential
- Poor Development Potential
- Radiation Source

Areas of one acre or less are incorporated into the surrounding larger areas.



3. Projects for Pajarito Corridor West Planning Area

Proposed, planned or budgeted projects noted below and on the facing summary map, VI-C3, for this planning area were identified through Laboratory documents or by stakeholders during the Comprehensive Site Plan 2000 process. The symbol *NS* stands for project “Not Shown” on the summary map.

Development of Nuclear Campus

- ① Planned replacement of CMR and SNM functions to new facility at TA-55.
- ② Proposed reuse of target fabrication at TA-35.
- ③ Proposed replacement of waste facility at TA-50 because of life-cycle replacement need.
- ④ Planned radiographic facility.
- ⑤ Proposed removal of trailers and transportables and replacement with permanent buildings.
- ⑥ Proposed long-term relocation or reuse of nonnuclear and public interface facilities within the nuclear campus, including Atlas and Pegasus.

Transportation Development Three Options for Pajarito Road

- ⑦a Closure of Pajarito Road to public traffic with control gate to reduce safety and security concerns.
- ⑦b Realignment and upgrading of Pajarito Road, including new bypass road south of existing alignment.
- ⑦c Building of new north-south connector road between Pajarito Road and East Jemez Road to alleviate traffic on Pajarito Road.
- ⑧ Potential restricted access road from TA-55 to potential AHF firing site in Sigma Mesa Planning Area. Road grade to be separate from new public road (1c).
- ⑨ Proposed limited access road from TA-48 to TA-54 for movement of SNM to waste facilities.

- ⑩ Proposed second road from TA-35 to proposed Pajarito/East Jemez Road connector road for emergency/safety access.
- ⑪ Planned additional parking facilities to accommodate growth of nuclear campus.
- ⑫ Proposed transit facilities to accommodate population growth at the nuclear campus.

Security Development

- ⑬ Increased security area at the nuclear campus.

Infrastructure Revitalization

- NS* On-going utility revitalization activities as noted in Site Wide Planning Area section.
- ⑭ Planned upgrade of 3-inch natural gas line from Pajarito Corridor West to TA-54 to meet capacity needs at TA-54.
 - ⑮ Proposed reconductoring of Norton electrical transmission line to increase site wide electrical distribution capacity.

Facilities Revitalization

- NS* Proposed replacement, removal or upgrade of poor or failing facilities that are approximately 25% of facilities in the planning area.
- ⑯ Proposed replacement of seismic “Extremely High Risk” Building 27 at TA-35.
 - ⑰ Proposed replacement of seismic “Extremely High Risk” Building 1 at TA-50.

Quality Environment Enhancement

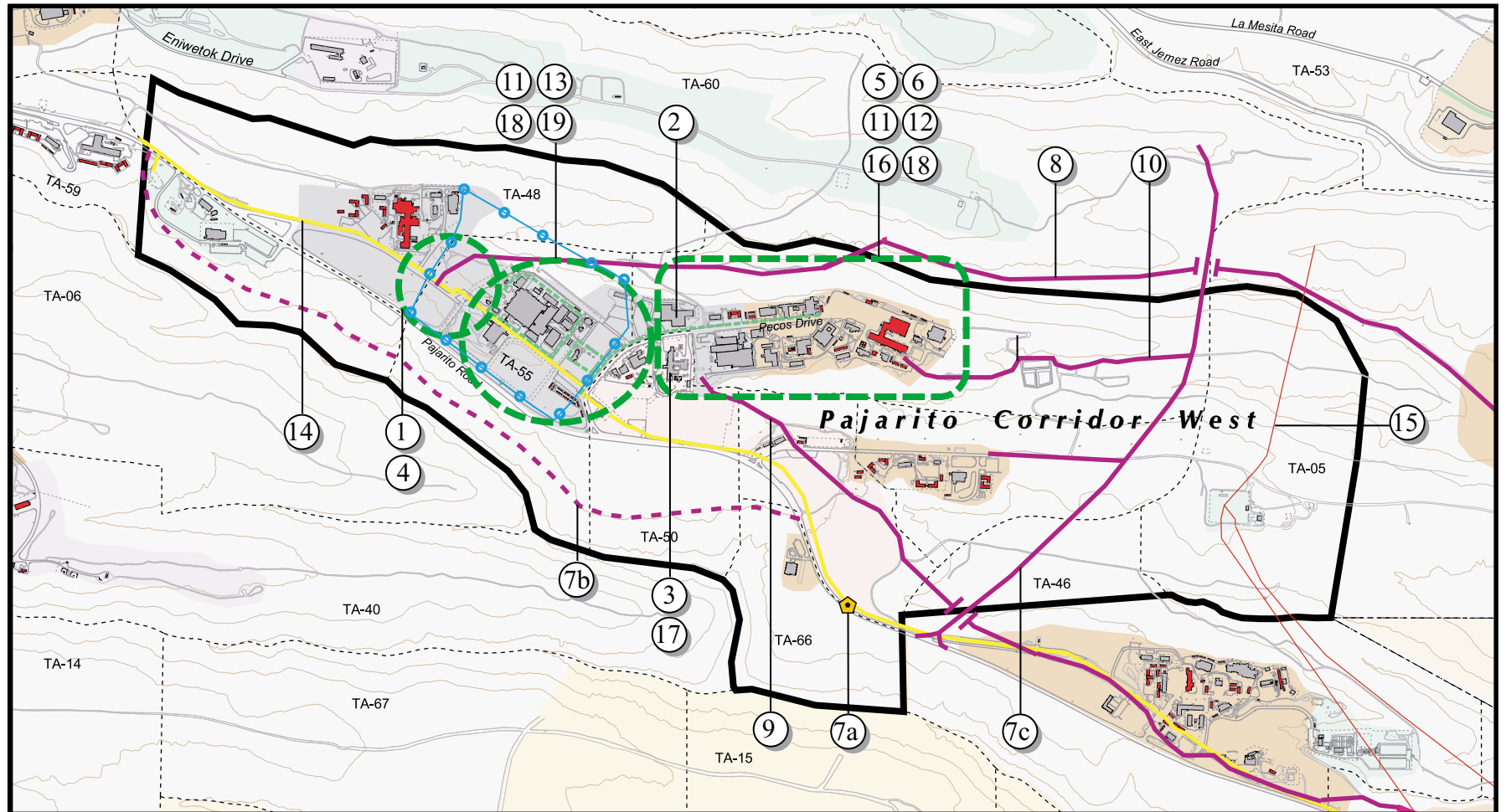
- ⑱ Proposed development of walks and outdoor spaces for pedestrian and staff circulation safety.
- ⑲ Proposed development of cafeteria in nuclear campus to accommodate increased staff population.

CSP 2000 Issues for Pajarito Corridor West Planning Area

Important issues that need discussion for continued refinement of the CSP for this planning area:

- *Identify process and schedule for CMR replacement.*
- *Identify what SNM activities should eventually relocate to the nuclear campus.*
- *Identify policy for dealing with nonnuclear activities in nuclear campus.*
- *Identify process for replacing seismic “Extremely High Risk” buildings.*
- *Identify process for replacement of radioactive waste treatment facility at TA-50.*

Map VI-C3: Pajarito Corridor West Planning Area Summary Map



LEGEND

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|----------------------------|------------------------|----------------------------------|
| Experimental Science | Waste Management | Long Range New or Improved Roads |
| High Explosives R&D | Land Transfer Tracts | New or Improved Roads |
| High Explosive Testing | Planning Area | Proposed Fences |
| Non-DOE Property | Fair or Poor Buildings | Proposed Guard Gate |
| Nuclear Materials R&D | Area of Interest | Proposed Pedestrian Improvements |
| Physical/Technical Support | Electric Line 115 kV | |
| Reserve | Gas Pipeline | |

