

## F. Experimental Engineering Planning Area

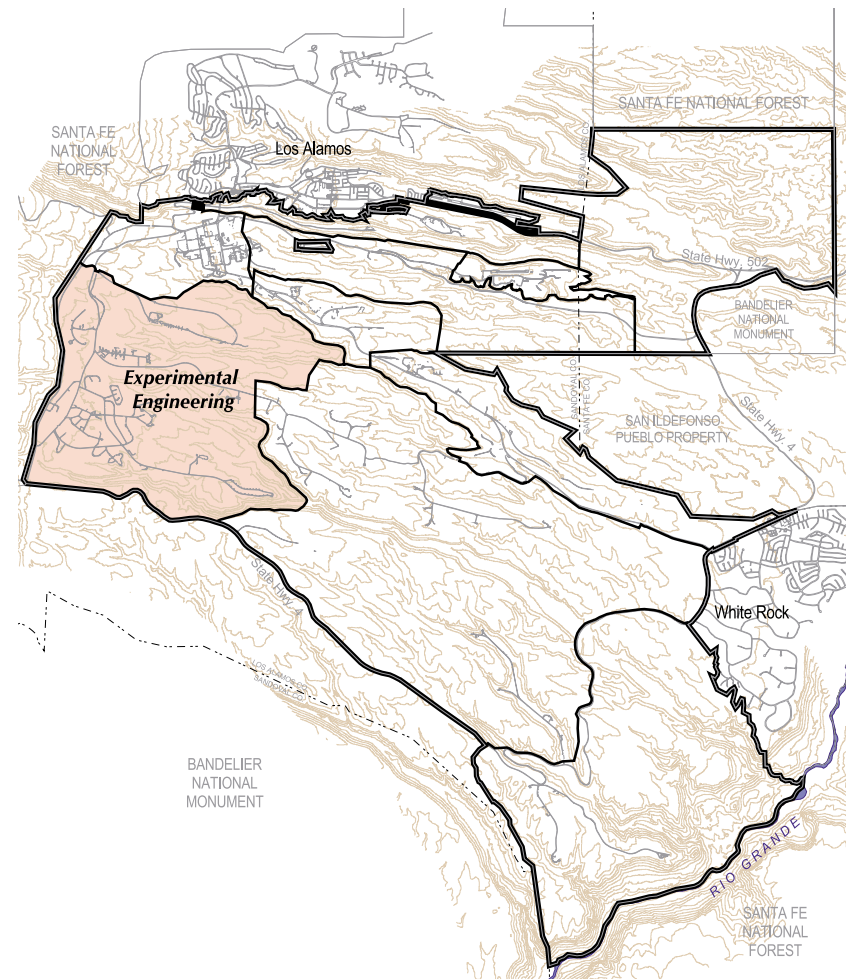
### 1. General Description

The Experimental Engineering Planning Area shares the westernmost section of the Laboratory with the Core Planning Area. The Experimental Engineering Planning Area covers approximately 6.9 square miles. The western boundary abuts the Santa Fe National Forest. West Jemez Road parallels the western boundary and lies within Laboratory property. TAs -08, -09, -11, -14, -16, -22, -28, -37, -40 and portions of TAs-67 and -69 are in the Experimental Engineering Planning Area.

The following assumptions will guide the physical planning of Experimental Engineering Planning Area for the next 10 years.

- *The Experimental Engineering Planning Area will host the future tritium consolidation efforts in new facilities at TA-16.*
- *High explosives (HE) activities will be consolidated within the planning area to increase operational effectiveness and efficiency.*
- *Development related to the Advanced Hydrotest Facility (AHF) will affect this planning area. Existing assembly and radiographic facilities may be removed and replaced with new facilities in either the Experimental Engineering or Dynamic Testing Planning Areas.*

Map V1-F1: Experimental Engineering Planning Area Key Map



## 2. *Opportunities and Constraints*

The following opportunities and constraints affect physical planning in the Experimental Engineering Planning Area.

### *Physical Constraints*

In the Experimental Engineering Planning Area, an extensive system of canyons, which includes Canon de Valle to the east, Water Canyon to the south, and an unnamed canyon to the west, limits development. The eastern canyon portion of the planning area is federally protected species habitat and associated buffer zones. Archeological survey areas cover most of the mesa tops in the western portion of the Experimental Engineering Planning Area. Development in these environmentally sensitive areas is discouraged.

### *Operational Constraints*

This planning area is restricted and closed to all nonexplosives development, testing and storage activities. Current explosives-clear zones cover much of the area and prohibit any nonexplosives-related facilities development. Explosives containment technology may modify the extent of these zones in the future. The prohibition of AM radio transmissions within the Laboratory is particularly important in this planning area.

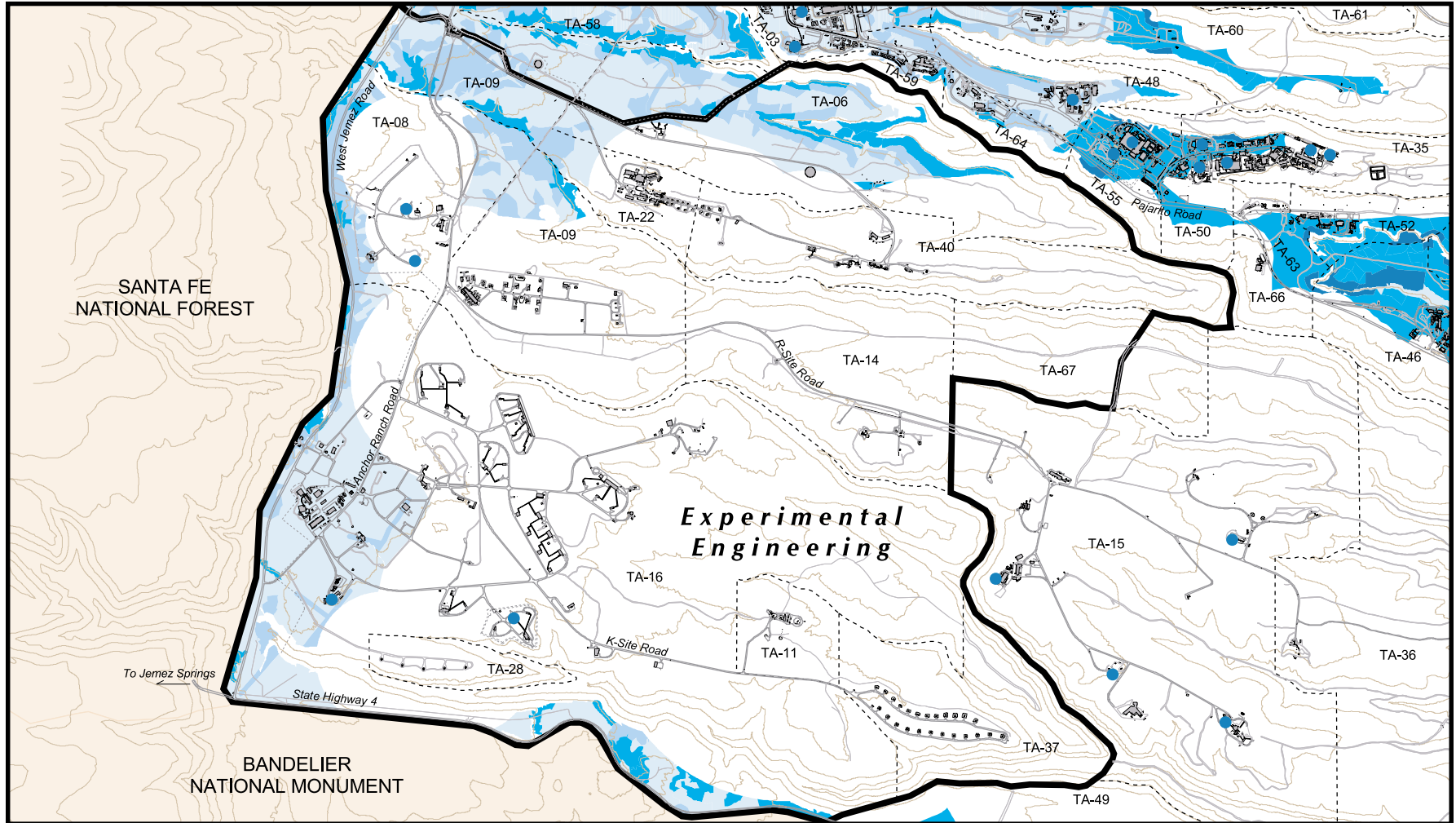
There are four radiation sources in the western half of this planning area. The safety analysis report for this planning area allows work within these areas by only Laboratory and Laboratory contractor personnel. A hazardous materials disposal site is located on the northern boundary of TA-16.

The proximity of the Experimental Engineering Planning Area to NM State Highway 4 and the U.S. Park Service's Bandelier National Monument on the south and the U.S. Forest Service's Santa Fe National Forest on the west could pose future development restrictions.

### *Development Opportunities*

Development opportunities for additional high explosives R&D functions exist along the northern and western boundaries of the Experimental Engineering Planning Area. The best potential areas include the eastern end of TA-40, the middle portion of TA-16, and the northern half of TA-14 and all of TA-67. Utilities would have to be extended to all these areas.

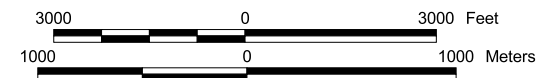
Map VI-F2: Experimental Engineering Planning Area Development Opportunities Map



**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 the Experimental Engineering Planning Area*

Proposed, planned or budgeted projects noted below and on the facing Summary Map, VI-F3, 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 AHF/DARHT***

- ① Proposed demolition of existing assembly facility at TA-08 to be replaced with new facility related to AHF/DARHT.
- ② Proposed demolition of radiographic facility at TA-08 to be replaced with new facility related to AHF/DARHT-undetermined location in planning area.

#### ***Consolidation of Tritium Activities***

- ③ Planned consolidation of tritium functions from Omega West Planning Area to TA-16.

#### ***Revitalization of Experimental Engineering***

- ④ New office buildings to replace aging, high-maintenance temporary structures.
- ⑤ Budgeted detonator facility scheduled for completion in FY 2002.

#### ***Transportation Development***

- ⑥ Proposed upgrade of road between TA-14 and -67 to improve circulation.
- ⑦ Proposed upgrade of road to TA-09 for future access to TA-58.
- ⑧ Proposed road across TA-6 for access to future development sites.

#### ***Security Development***

- ⑨ Proposed fence in TA-06 for perimeter security.
- ⑩ Proposed new guard gate on future road to TA-09.
- ⑪ Upgrade control gate at southwest boundary of TA-16.
- ⑫ Proposed secure storage.

#### ***Infrastructure Revitalization***

- NS* Ongoing utility revitalization activities as noted in Site wide Planning Area section.
- ⑬ Budgeted replacement of collapsed sewer line section between manholes 769 and 770.
  - ⑭ Budgeted upsizing of 2-in. natural gas line to location of DARHT.
  - ⑮ Proposed new 115-kV electrical transmission line to improve site wide distribution and supply security.

#### ***ESH Efforts***

- ⑯ Proposed program for controlled access to historic site.

#### ***Facilities***

- NS* Proposed replacement, removal or upgrade of facilities rated as poor or failed (84% of facilities in the planning area).

#### ***Quality Environment Development***

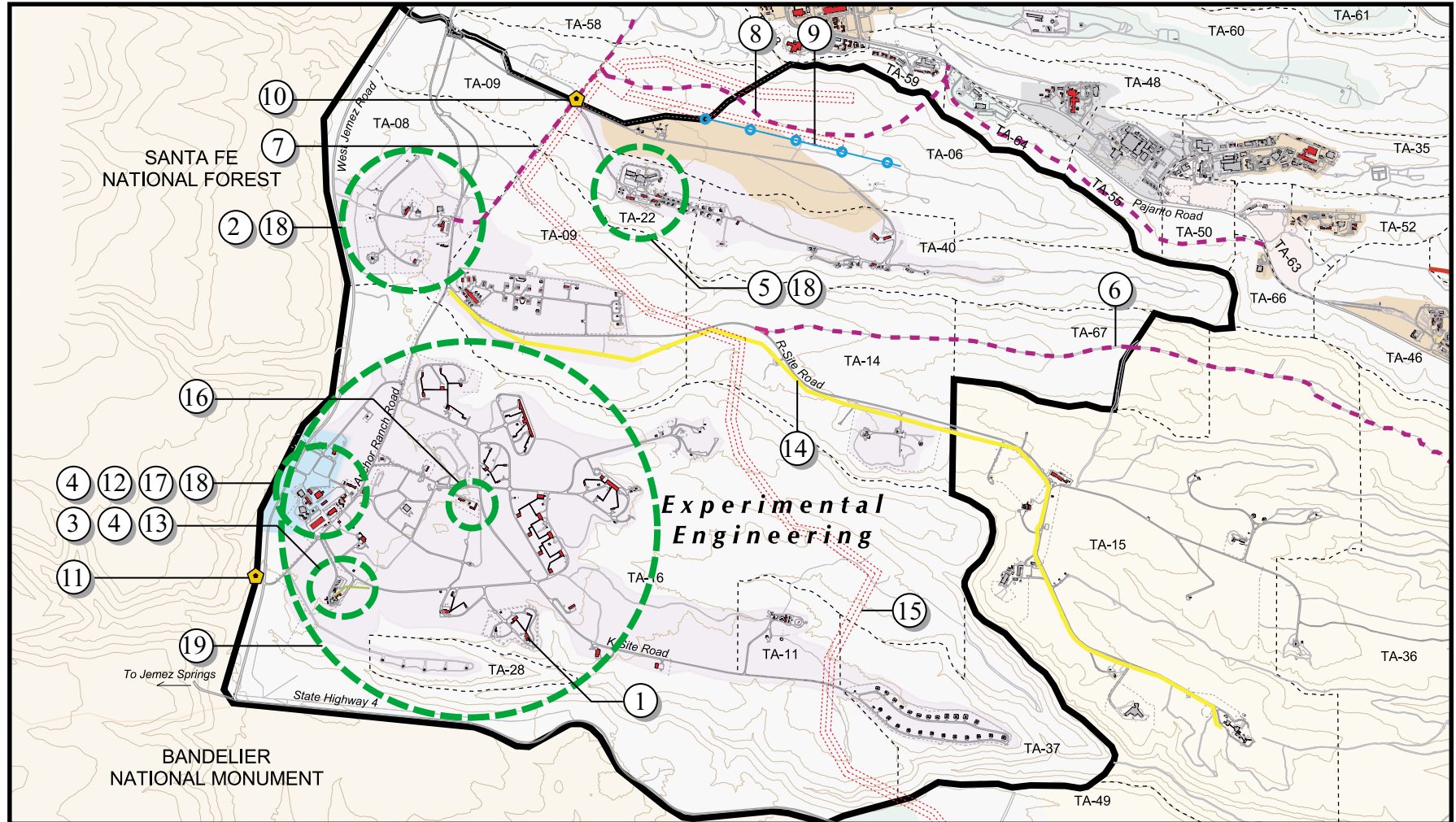
- ⑰ Proposed improvement for pedestrian safety between parking areas and buildings.
- ⑱ Proposed upgrade of architectural and physical appearance including signage, landscaping and improves outdoor spaces.
- ⑲ Proposed closure and revegetation of unused roads in the planning area.

#### ***CSP 2000 Issues for Experimental Engineering Planning Area***

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

- *Continue to consolidate high explosives facilities within the planning area,*
- *Continue to remove, replace or upgrade poor and failed facilities in planning area,*
- *Plan for consolidation of tritium functions to TA-16.*

Map VI-F3: Experimental Engineering Planning Area Summary Map



LEGEND

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