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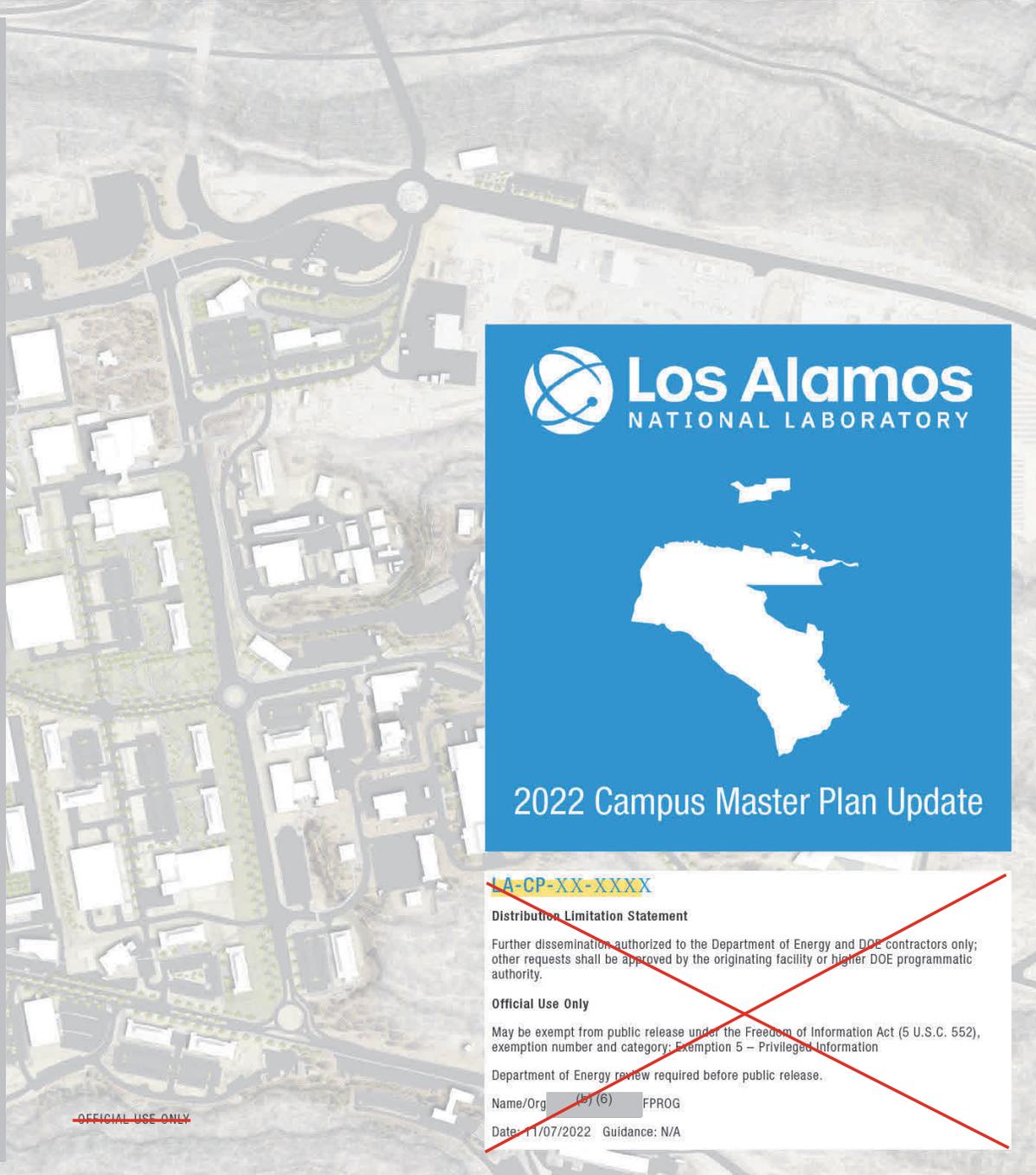
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## 2022 Campus Master Plan Update

~~LA-CP-XX-XXXX~~

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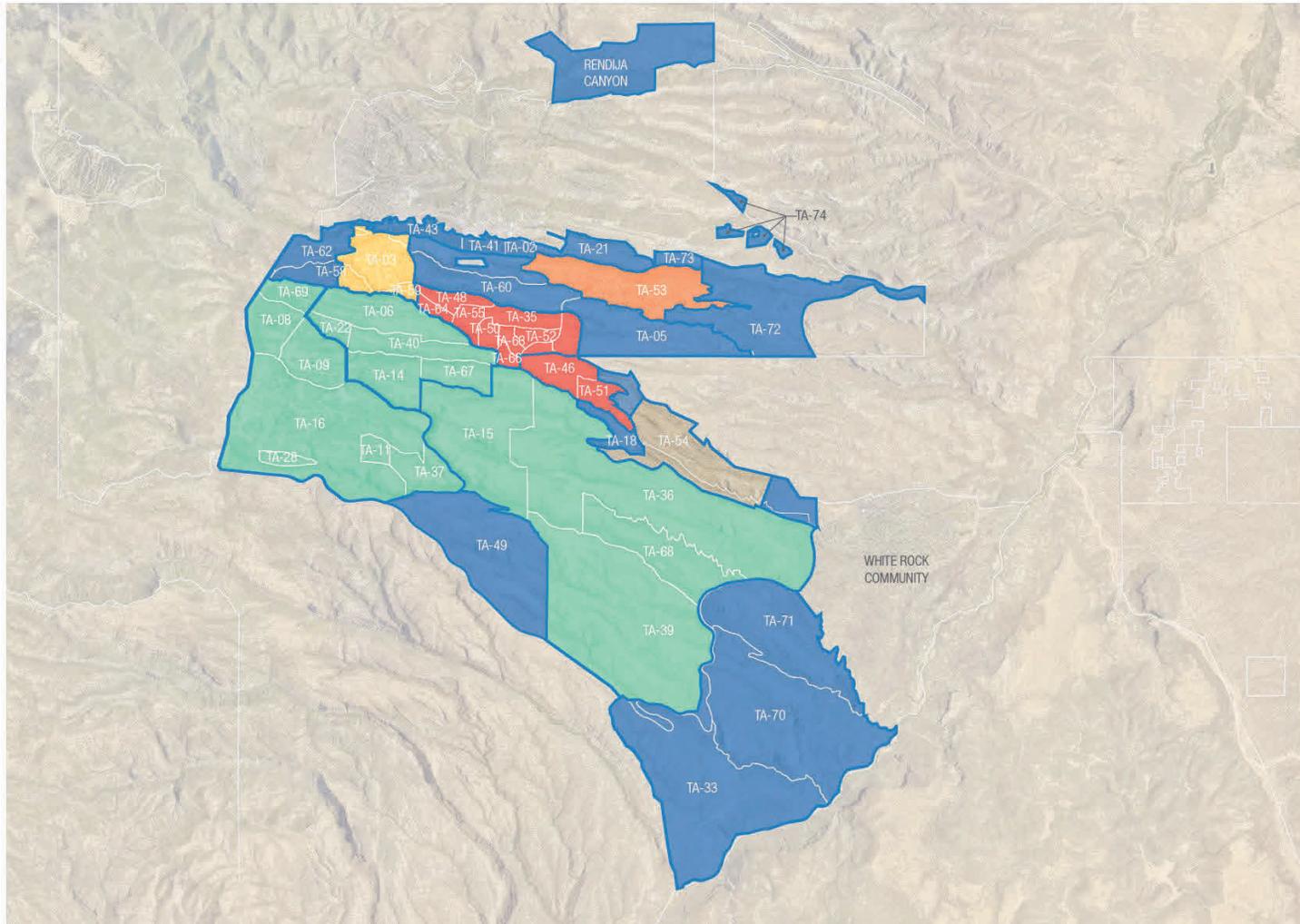
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# 01

## Introduction and Overview

2022 CAMPUS MASTER PLAN UPDATE





- Core Area
- Pajarito Corridor
- LANSCE
- NEEWC
- Balance of Site
- DOE/EM Operational Area

Note: DOE/EM Operational Area is not included in the Campus Master Plan

Figure 1A: Overall Campus Diagram

## 1 INTRODUCTION AND OVERVIEW

### 1.1 Executive Summary

The Los Alamos National Laboratory (LANL or the Laboratory) 2021 Campus Master Plan (CMP) was the Laboratory's first comprehensive site plan in more than 20 years. In addition to providing the framework for facility and infrastructure development, the CMP established an integrated, site-wide process for ongoing collaborative planning efforts.

The 2021 CMP established a long-term, mission-driven vision for the Laboratory based on principles of sustainability, resilience, environmental stewardship, preservation of cultural and historical resources, and the Laboratory's commitment to excellence. The plan also created a roadmap founded on communication and collaboration within the Laboratory and with the Los Alamos Field Office (NA-LA), the National Nuclear Security Administration's (NNSA's) Office of Infrastructure (NA-90), and Environmental Management (EM)/Newport News Nuclear BWXT Los Alamos (N3B) for iterative engagement in how site infrastructure and land-use planning are evaluated, prioritized, communicated, and executed in support of the mission and operations at the LANL site. These efforts were, and continue to be, aided by innovative Geographic Information System technology that allows tracking and real-time interactive planning of development alternatives.

In fiscal year (FY) 2022, the CMP transitioned from plan development to plan implementation. This FY22 update concentrates on the progress and changes made in specific areas, focusing on the Pajarito Corridor West and the National Energetic and Engineering Weapons Campus (NEEWC) planning areas. Other updates include site planning adjustments in the Core Area and a reassessment of the timing of projects at Technical Area (TA)-33.

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The FY22 CMP also acknowledges the need for more warehousing, especially in the Pajarito Corridor and NEEWC planning areas. To achieve this ambitious target, the Laboratory will be required to improve efficiency in all aspects of construction, including planning, procurement, and execution. Several steps have already been taken to ensure that processes and personnel are aligned to achieve these improvements, including:

- an accelerated outreach and hiring process that has added more than 1,000 new employees during the first six months of 2022;
- a reorganization of infrastructure programs, consolidating infrastructure planning, prioritization, and funding efforts within a single office;
- a new planning effort with EM/N3B, aligning priorities of anticipated construction projects with timely sampling and mitigation to ensure that sites are ready for construction;
- early funding determinations to enable smooth construction starts;
- continued application of modular construction techniques; and
- initiation of new space-allocation studies.

The Laboratory successfully secured off-campus leased space for various functions that did not require personnel to be onsite. In addition to two office locations in Santa Fe — representing more than 100,000 square feet of leased space — (b) (5). This approach not only decreases the pressure for onsite space — but also decreases traffic congestion and improves travel safety.

Similarly, the Laboratory's telework policies — initially implemented in response to the COVID-19 pandemic — have also successfully addressed safety concerns and decreased onsite congestion. Although telework policies are continually being evaluated, they have provided interim relief to space management at the Laboratory site and allowed the focus on new space needs to remain uppermost in addressing mission requirements.

## 1 Introduction and Overview continued

### 1.2 Transportation

Work has also been ongoing in the realm of transportation planning. The Workforce Strategy for the Plutonium Enterprise and Missions at LANL indicates that more than 2,500 new employees are required for execution of all plutonium missions sitewide. A combination of constrained roadways, a lack of developable space for onsite parking, and operational logistics have confirmed the need to focus on transit options and structured work shifts to manage traffic congestion and parking utilization and to minimize the commute duration for staff.

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### 1.3 Utilities

Utility planning continues its emphasis within the Pajarito Corridor and the National Energetic and Engineering Weapons Campus (NEEWC) planning areas. The CMP update is primarily a refinement and prioritization of the utility projects. In the (b) (7)(E), (b) (7)(F)

Utility projects needed to implement the facility construction work depicted in the CMP were updated. Focus was on near-term projects, but mid- and long-term project needs were also considered to ensure that current upgrades or new installations would serve long-term needs or, at a minimum, not preclude or impair utility work anticipated for the longer timeframe. Opportunities to create utility corridors were incorporated into the needs analysis. Prioritized on a set of developed criteria, the utility project list served as a starting point for internal LANL review and further refinement for final project prioritization.

The FY21 CMP infrastructure project lists and current data for Water, Sanitary Wastewater, Primary Electrical, Natural Gas, and Network and Infrastructure Engineering (NIE)/Telecommunications systems were reviewed for capacity inputs and utility system models were updated. The review resulted in a revised project list and an evaluation of a rough order of magnitude cost estimate. Each project was then further evaluated based on several weighted criteria, including readiness to execute, impact on existing infrastructure, and sequencing with other infrastructure projects.

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The two lists were then combined, resorted, and re-prioritized. The five highest-ranked projects represent capacity improvements needed to support mission-critical facility project implementation in the Pajarito Corridor and NEEWC. A final list of utility projects in the Pajarito Corridor and the NEEWC has been included as the last section of this document.

The FY21 CMP projects remained the same but with new naming to adhere to protocols, prioritized for execution, and additional refinement of specific details to align with the updated facility locations. (b) (5)

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In addition to the refinement and prioritization of utility projects, the FY22 CMP update developed a clarification of naming conventions. A lack of consistent project naming in the past has created discrepancies in distinguishing among projects. Consistent naming practices will eliminate any confusion and establish clarity when referencing projects across planning documentation.

#### 1.4 Sustainability and Resilience

Sustainability and Resilience continue to be key issues for LANL. In response to national goals and policies and DOE directives pertaining to climate change, the Laboratory has been developing a broad approach to sustainability. In 2021, the Biden-Harris Administration's Executive Order (EO) 14008, Tackling the Climate Crisis at Home and Abroad, and EO 14057, Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability, established climate considerations as an essential element of national security.

Key initiatives in development to meet the multiple sustainability and net-zero emissions goals established in these EOs include the following:

- *2022 Climate Change Vulnerability Assessment and Resilience Plan (VARP)*. The VARP focuses on site-wide resilience solutions to the potential impacts of climate change. The VARP consists of a nine-step process that includes identifying LANL's critical assets, analyzing climate change hazards and their likelihood of occurrence at the Laboratory, assessing vulnerability and risk, and identifying and proposing resilience solutions.
- *NA-90's Energy Resilient Infrastructure and Climate Adaptation (ERICA) initiative*. Beginning in FY23, this initiative will be an element of NNSA's strategy to identify, prioritize, and implement infrastructure investments that accelerate climate adaptation and increase energy resilience, energy security, and sustainability in support of the mission.

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(b) (5)

- *Sustainable Transportation*. The Laboratory is working on several different sustainable parking and transportation alternatives to meet the transportation challenges of mission growth in the Pajarito Corridor and throughout the site. The CMP has refocused transportation planning to a transit-based orientation to reduce the number of vehicles brought onsite.

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- *Sustainable Building Program*. LANL has updated the Engineering Standards Manual to incorporate new requirements from EOs. This will ensure new buildings meet net-zero or net-zero ready designation. The program has continued to grow the My Green LANL initiative adding two more facilities in FY22.

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Since publication of the 2021 CMP, the Laboratory has added transportation programming, exploration of additional carbon pollution-free electricity purchases, design for longevity and adaptive reuse, and long-term electrification of buildings to the list of sustainability strategies and initiatives under consideration.

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# 02

## Planning Areas

2022 CAMPUS MASTER PLAN UPDATE



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Figure 2A: Core Area Illustrative Plan

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## 2.1 Core Area

The Core Area, primarily TA-03, is the heart of the Laboratory. It contains the majority of the Laboratory’s population, buildings, and infrastructure and is the primary gateway into the site. TA-03 and the Pajarito Corridor are the two areas of greatest population growth in the recent past and where significant growth is anticipated in the near future. The development goals and strategies established for the Core Area in the 2021 CMP remain the same:

- The Core Area will remain the Laboratory’s administrative center and the location of its primary public interface.
- Support and service functions, which take up significant land area and/or whose employees often work at other locations (including maintenance craft and shipping and receiving) will be relocated outside the Core Area, freeing land area for new construction and helping to reduce congestion.
- Other functions that impact security, such as the Badge Office, will also be relocated outside the Core Area.
- New road construction and realignments will create improved circulation, provide opportunities for coordinated and efficient utility corridors, and enhance the pedestrian experience.
- Starting at the perimeter, which is less constrained by existing facilities, demolition of outdated facilities and infill with new facilities (including structured parking) will create more density and greater efficiency of land use and infrastructure.
- A pedestrian circulation network with integrated green spaces will create a quality campus environment within the Core Area.
- Security and emergency response goals will be coordinated with all design applications.
- A reconfigured entrance and new transit center will create an attractive new gateway to the Laboratory.
- Replacement of the Los Alamos Canyon (Omega) Bridge and its potential new location will be analyzed in the near future.
- (b) (5), (b) (7)(E), (b) (7)(F)
- The CMP will pursue design development of a new "mini campus" model that enables collaborative, dedicated spaces that are capability specific.
- All development and redevelopment will be designed to achieve the highest standards of sustainability, including consistent application of the principles and techniques of LID/GI to the greatest extent practical.

(b) (5). Since completion of the FY21 CMP at the end of September 2021 and through the end of June 2022, more than 600 new employees have been added to TA-03 alone. A new parking structure was completed, and construction of the re-envisioned Diamond Drive—including pedestrian safety improvements—was begun. Grade changes necessitated construction of a new frontage road to access existing facilities on the east side of Diamond Drive. Construction of the roundabout at Diamond and Pajarito is scheduled to start in early 2023, and the widening portion of Diamond Drive is planned for the summer of 2023. Completion of the Diamond Drive improvements is expected by the end of 2024.

Other significant changes include completion and occupancy of a multi-use office building (MUOB)—CMP Project #C-03-02 and assigned building number TA-03-0524. This new 23,000-square-foot, classified modular building in the center of TA-03 provides classified office space for weapons programs and accommodates up to 100 employees. A new fire station (#B-61-02), one of two structures replacing the existing Fire Station #1, has been added along East Jemez Road in TA-61.

(b) (5)

### Summary of Core Area Revisions

TA	Change and Descriptive Location	Projected Dates
	(b) (5)	

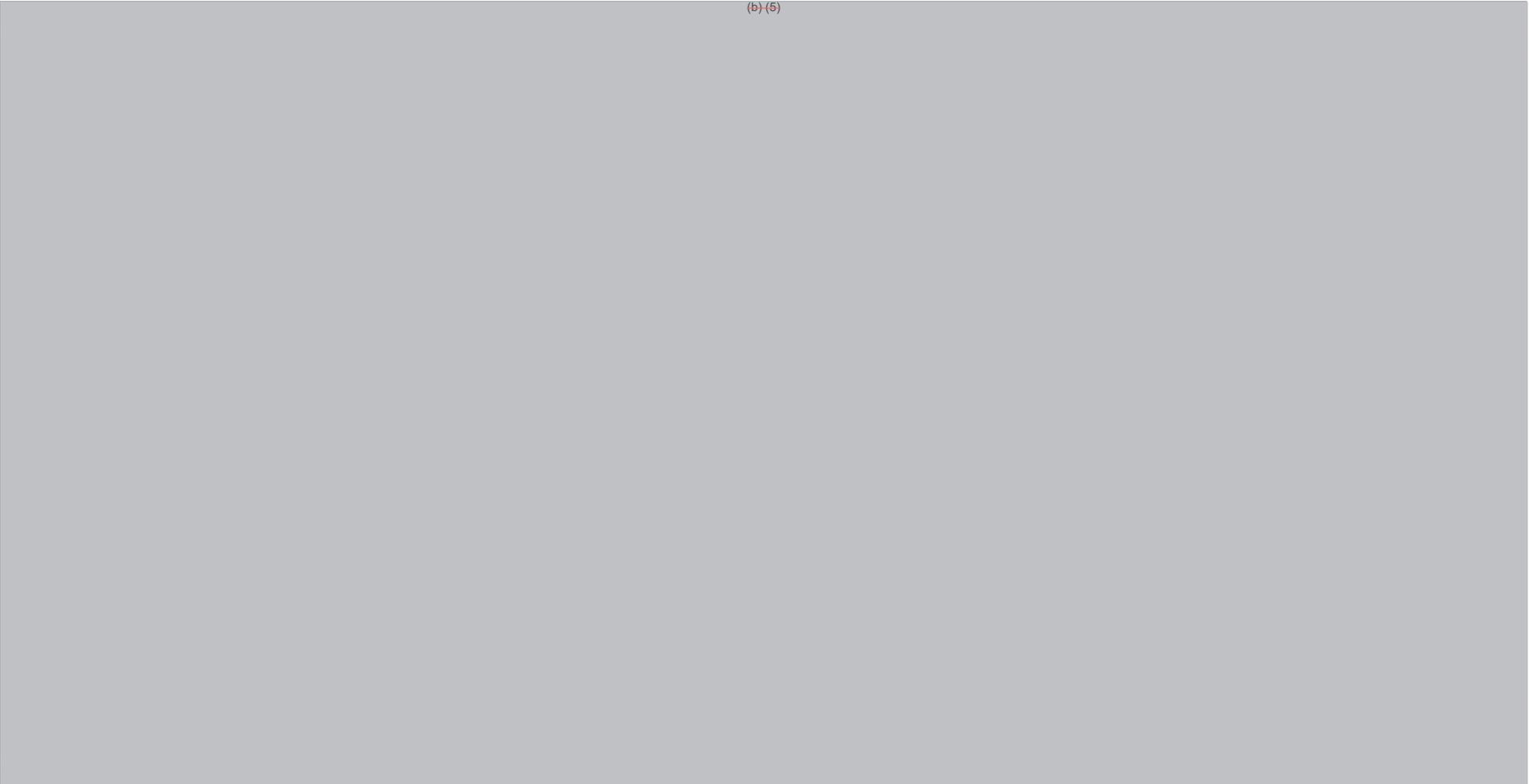
2 Planning Areas continued

(b) (5)



Near Term Demolition – Core Area

(b) (5)



2 Planning Areas continued

(b) (5)



Figure 2B: Core Area Near Term Construction  
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Near Term Construction – Core Area

(b) (5)



2 Planning Areas continued

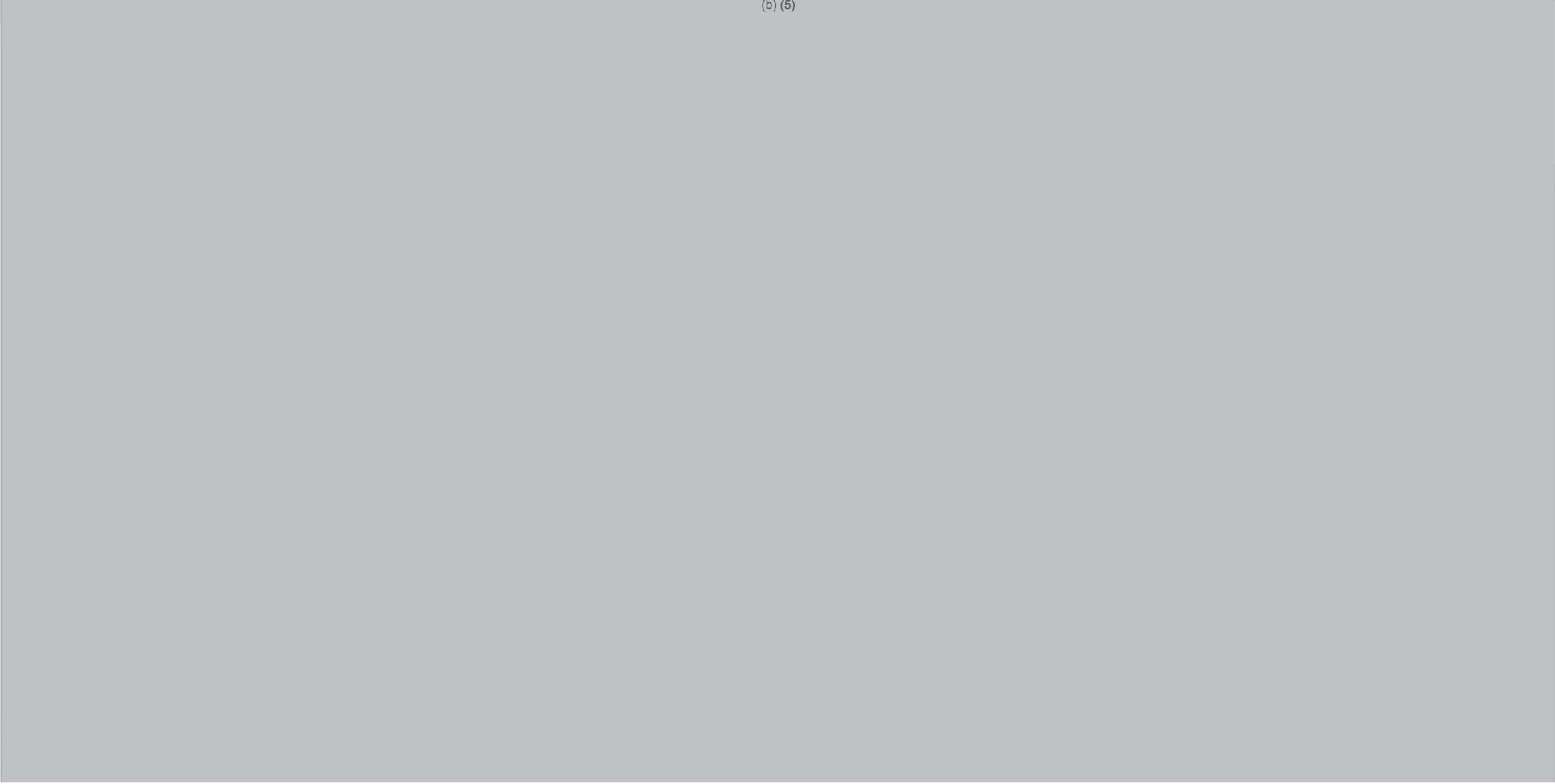
(b) (5)



Figure 2C: Core Area Mid Term Demolition

Mid Term Demolition – Core Area

(b) (5)



2 Planning Areas continued

(b) (5)



Mid Term Construction – Core Area

(b) (5)



2 Planning Areas continued

(b) (5)



Long Term Demolition – Core Area

(b) (5)



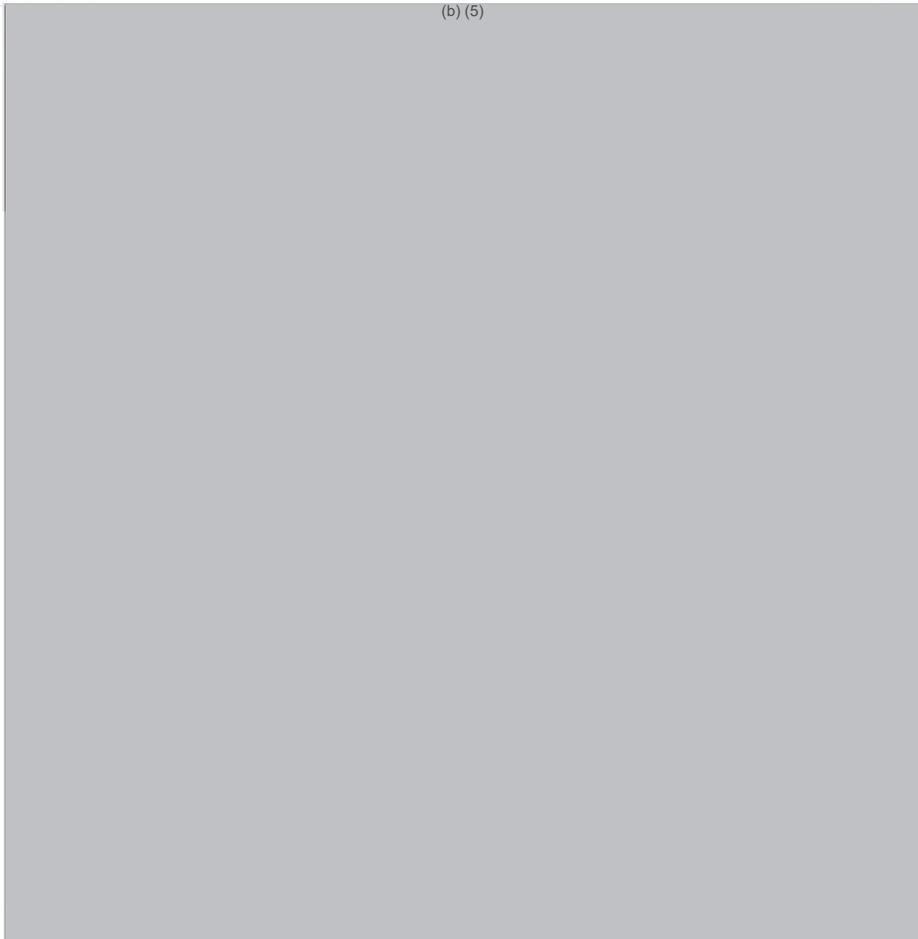
2 Planning Areas continued

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Long Term Construction – Core Area

(b) (5)



2 Planning Areas continued

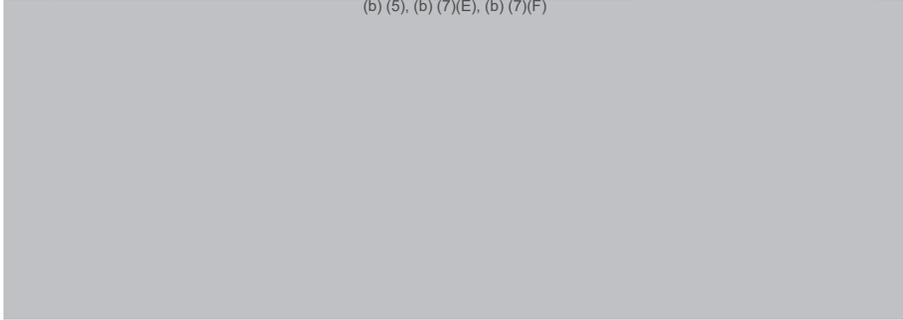
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Figure 2H: Pajarito West Illustrative Plan

Figure 2I: Pajarito East Illustrative Plan

## 2.2 Pajarito Corridor – Overview

The Pajarito Corridor Planning Area is the center of nuclear research and production at the Laboratory. Weapons production, testing, verification activities, science, and support functions are located in the Corridor. (b) (5)  
(b) (5), (b) (7)(E), (b) (7)(F)



Planning efforts in FY22 have focused on additional studies and analyses, including transportation and utilities, and revised conceptual plans.

(b) (7)(E), (b) (7)(F)

That work resulted in conceptual designs for reconfiguration of four major intersections on Pajarito Road—at Gamma Ray, Pecos, Puye, and Ivy. Planning in FY22 focused on specific areas within the Corridor and has provided conceptual analyses and recommendations on multi-modal circulation design, roadway configurations, and optimal access and service options for the parking structure at TA-48 and other planned facilities.

Assessments of utility requirements needed to serve the new facilities continued in FY22. This work included determining if existing utilities would have to be relocated to accommodate planned development.

Work also continues to integrate proposed demolition plans and projects with utility and transportation strategies; and to coordinate with transportation strategies. This work resulted in the revised conceptual site and facilities plan, most of which is presented in this update. A final overall integrated conceptual site design will be completed in FY23.

This plan will be the basis for the site and utility projects to be executed under the \$15M to \$20M annual allocation for utility and site work projects in the Pajarito Corridor. Execution will proceed once the order and priority of utility and roadwork projects required to enable execution have been established.

Additional projects will be executed to enable major construction required to support the 30 PPY mission. These projects will include utility upgrades and relocations, roadway upgrades and new roads, storm water retention, and early site grading, as needed.

2 Planning Areas continued

(b) (5)



Figure 2J: Pajarito West Illustrative Plan

2.2.1 Pajarito Corridor – West

(b) (5), (b) (7)(E), (b) (7)(F)

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TA-50 is the location of the parking structure opened in FY21 and a new training facility.

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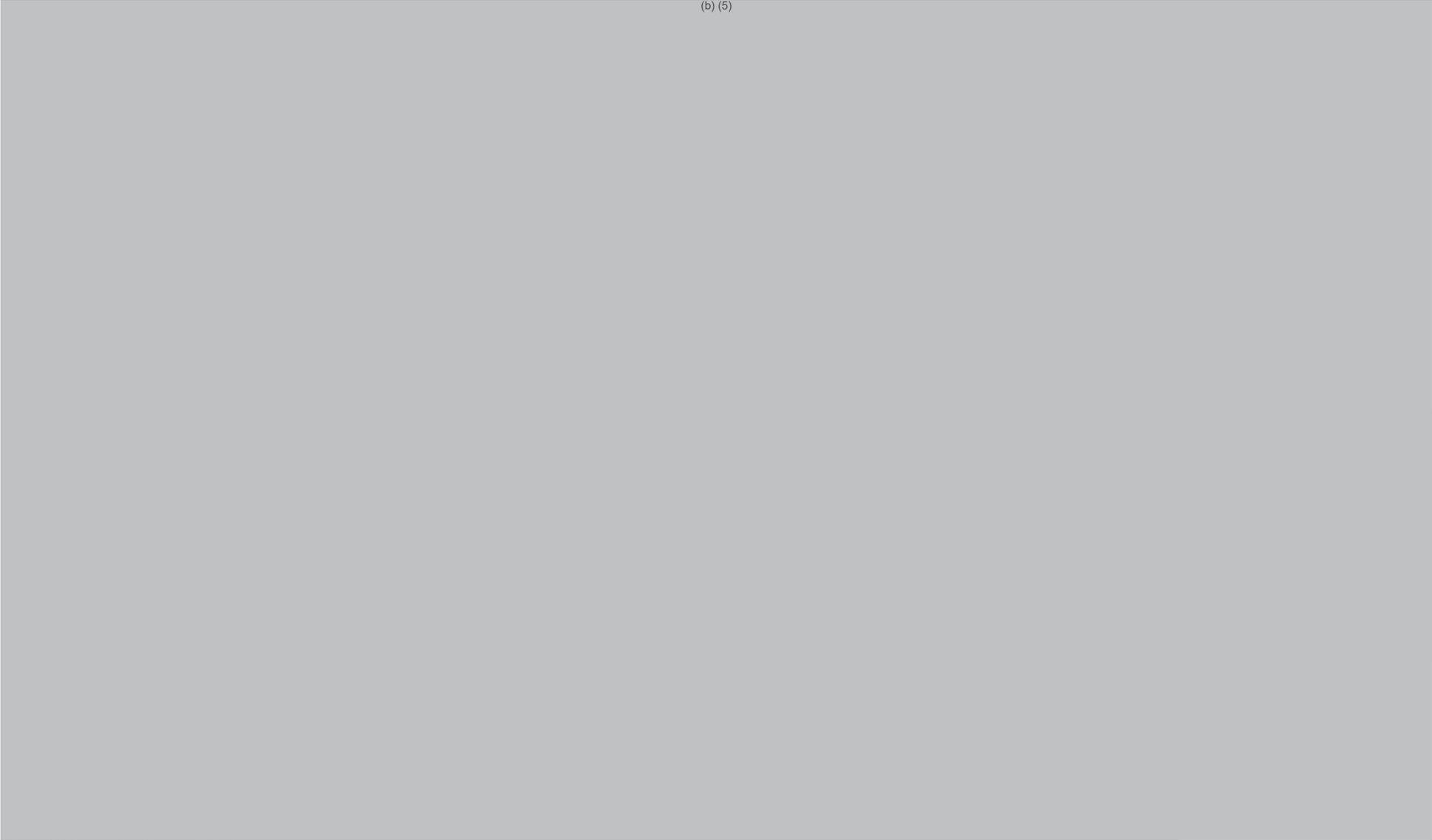
A second parking structure, shown in the FY21 CMP, is no longer planned in TA-50.

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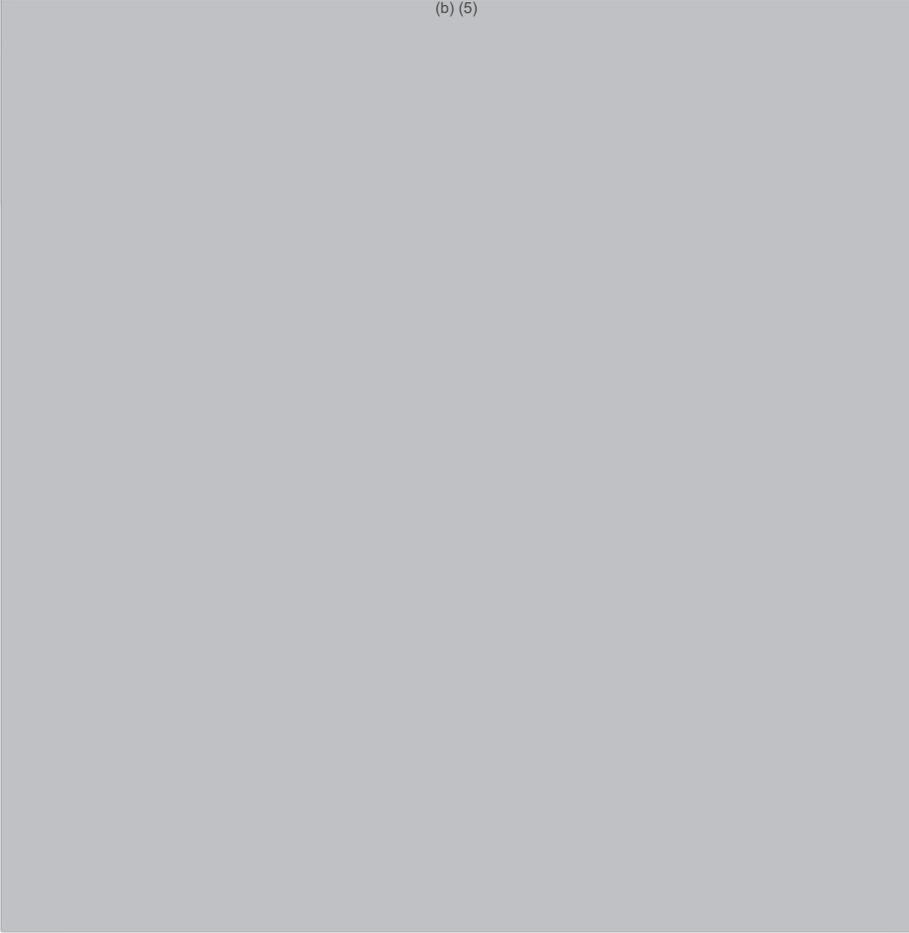
2 Planning Areas continued

(b) (5)



Near Term Demolition – Pajarito West

(b) (5)



2 Planning Areas continued

(b) (5)



Near Term Construction – Pajarito West

(b) (5)



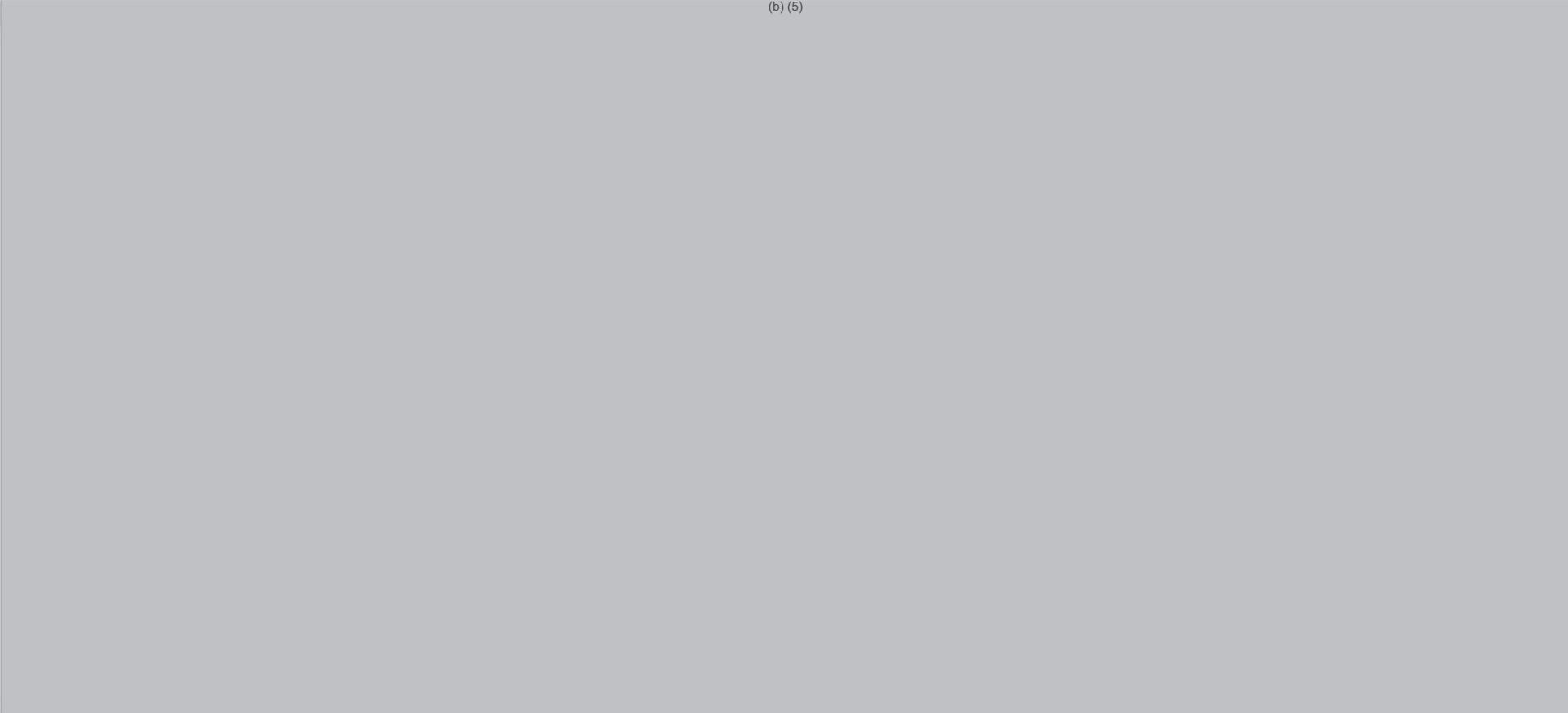
2 Planning Areas continued

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Mid Term Demolition – Pajarito West

(b) (5)



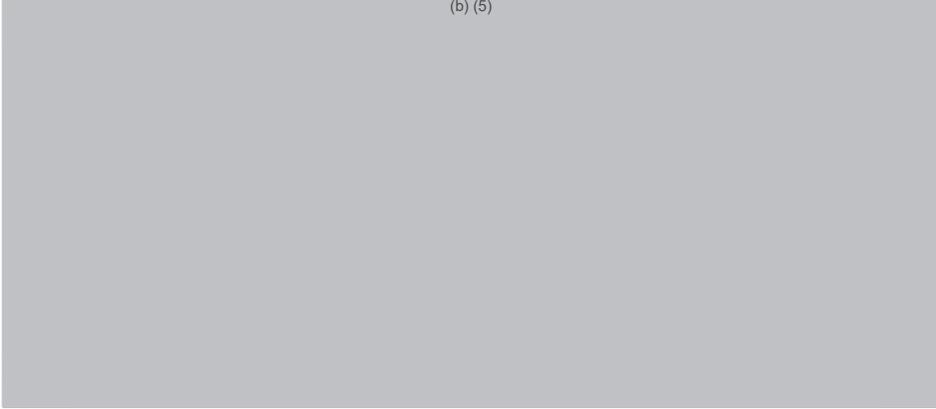
2 Planning Areas continued

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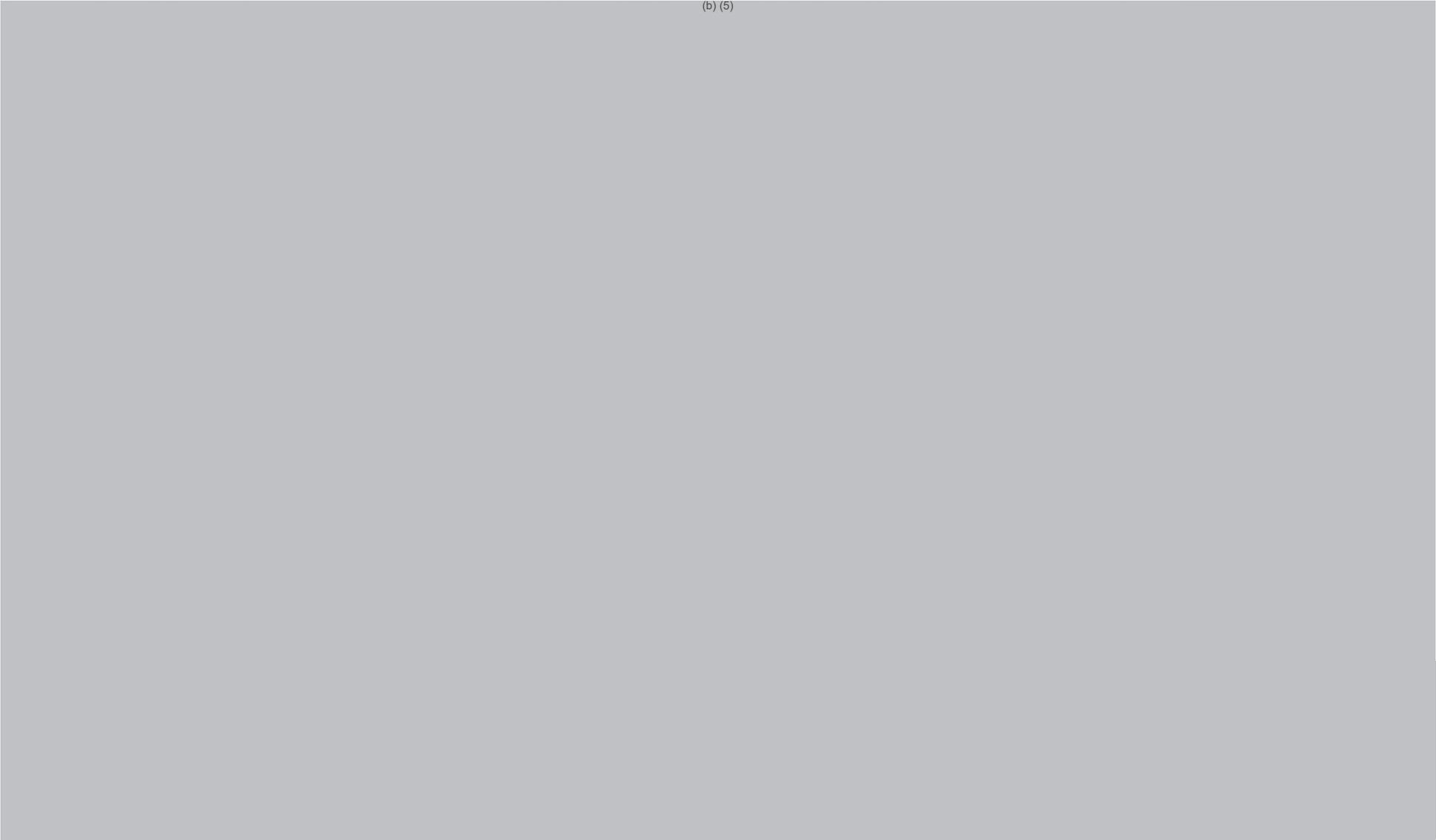
Mid Term Construction – Pajarito West

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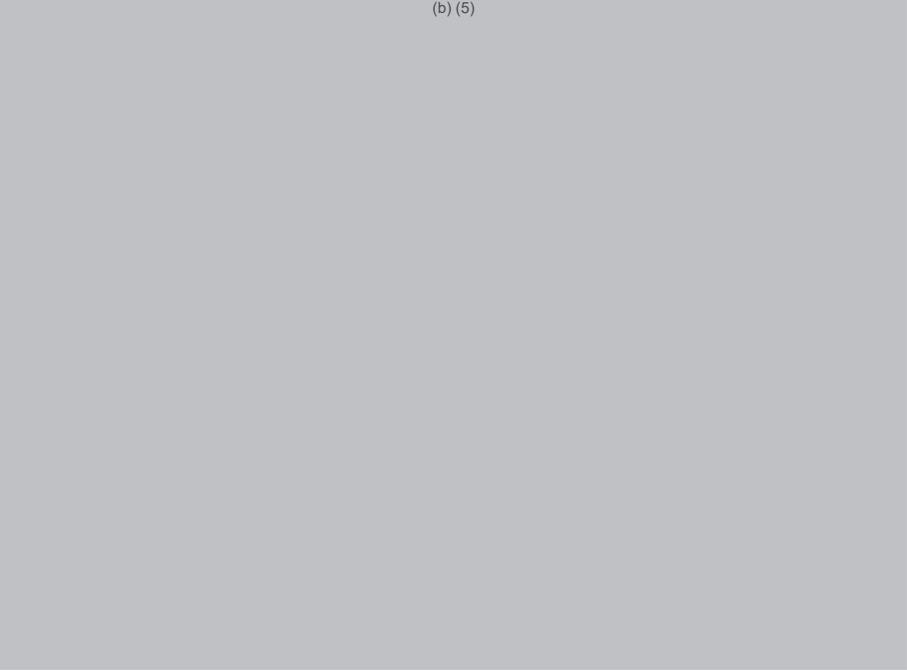
2 Planning Areas continued

(b) (5)



Long Term Demolition – Pajarito West

(b) (5)



2 Planning Areas continued

(b) (5)



Long Term Construction – Pajarito West

(b) (5)



2 Planning Areas continued

(b) (5)



Figure 2Q: Pajarito East Illustrative Plan

2.2.2 Pajarito Corridor – East

(b) (5)

(b) (5)

The parking

structure included in FY21 has been replaced with surface parking.

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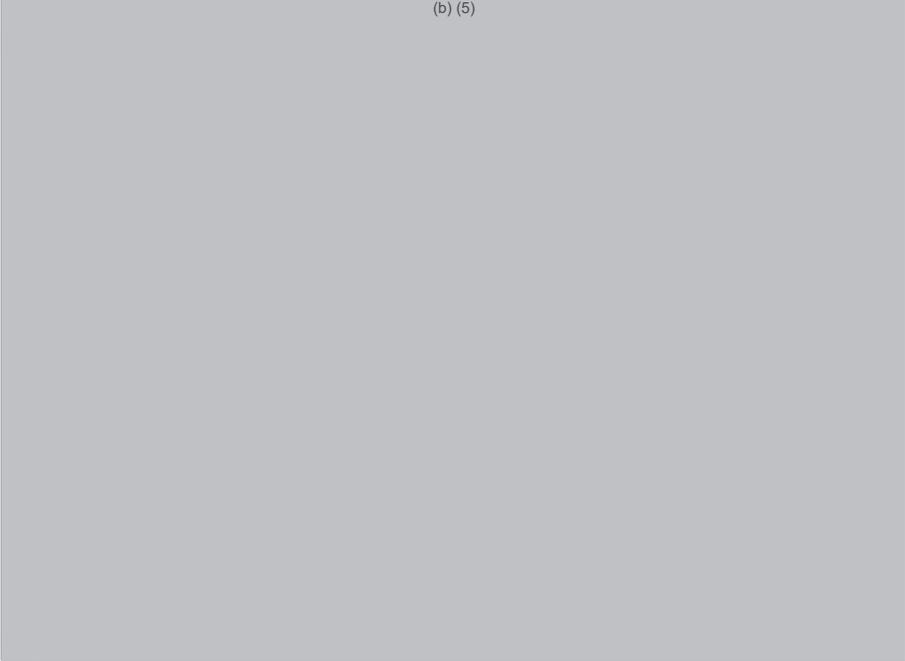
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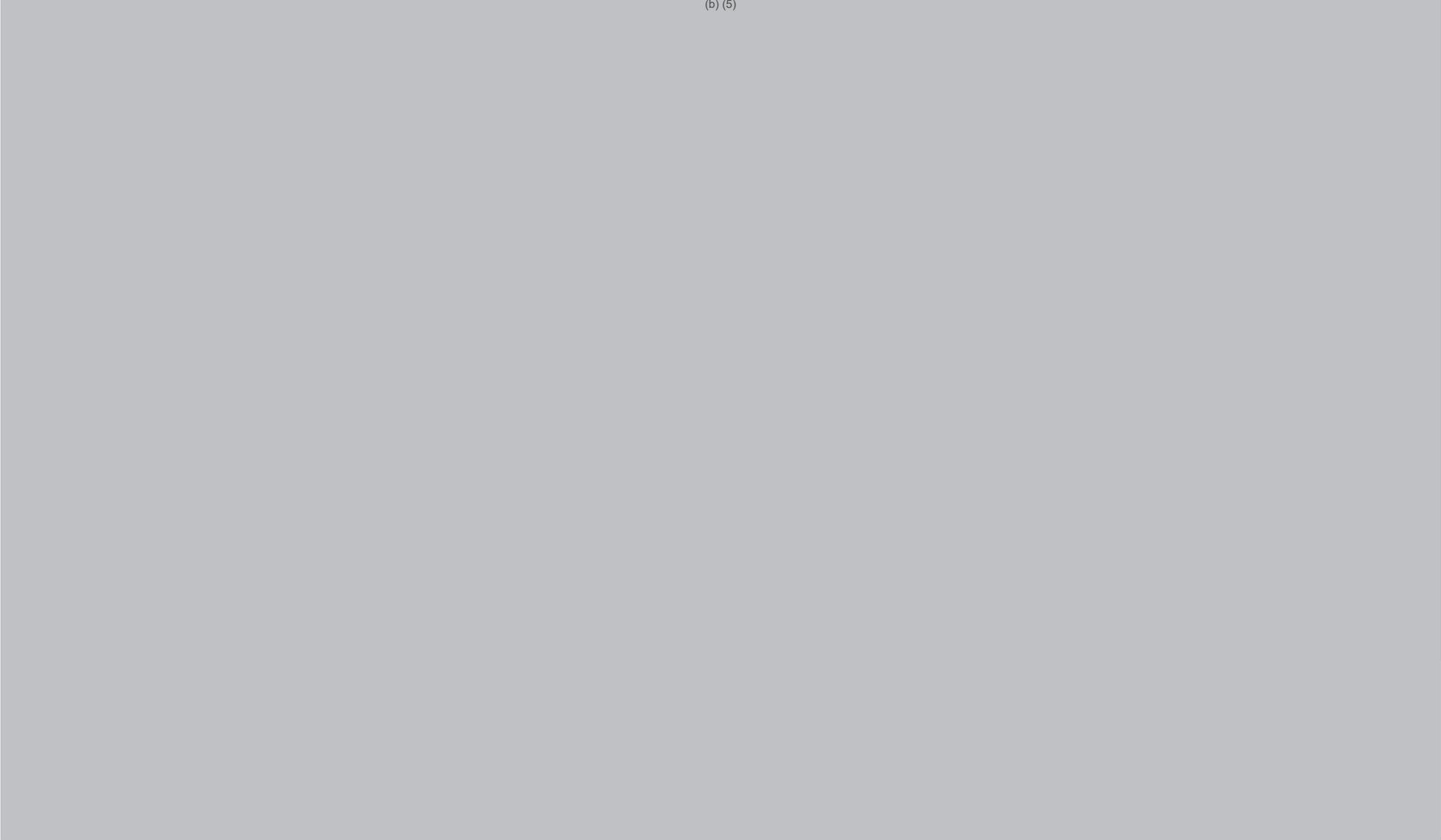
**Near Term Demolition – Pajarito East**

(b) (5)



2 Planning Areas continued

(b) (5)



Near Term Construction – Pajarito East

(b) (5)



2 Planning Areas continued

(b) (5)



Mid Term Demolition – Pajarito East

(b) (5)



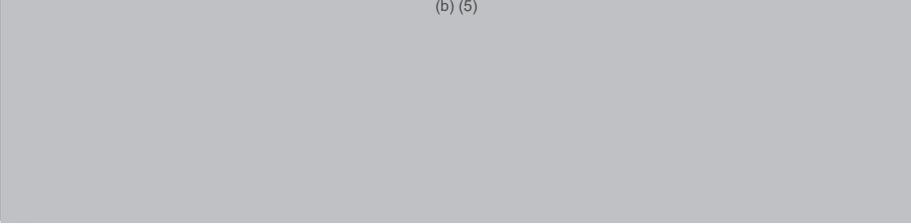
2 Planning Areas continued

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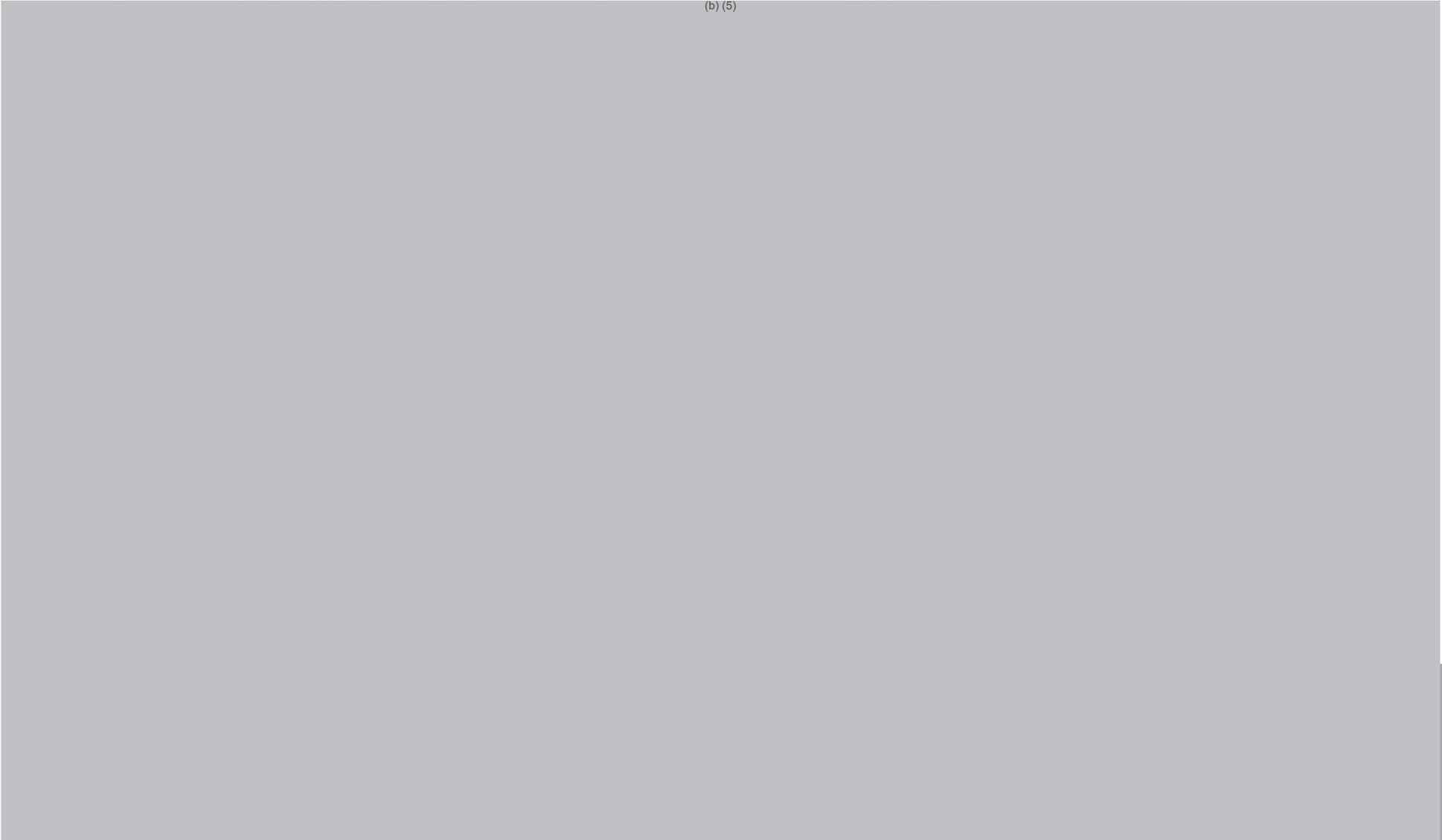
Mid Term Construction – Pajarito East

(b) (5)



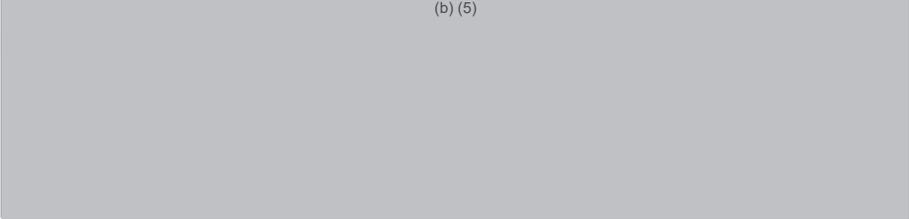
2 Planning Areas continued

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Long Term Demolition – Pajarito East

(b) (5)



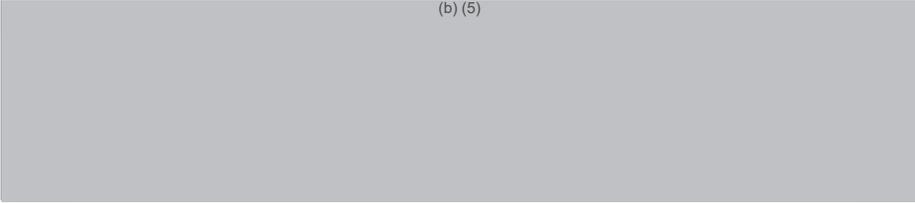
2 Planning Areas continued

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Long Term Construction – Pajarito East

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### 2.3 National Energetic and Engineering Weapons Campus (NEEWC)

The National Energetic and Engineering Weapons Campus is the high explosives, engineering, and environmental testing site for the weapons programs at the Laboratory. (b) (7)(E), (b) (7)(F)  
(b) (7)(E), (b) (7)(F)

For planning purposes, the FY21 CMP divided the area into three primary sub-areas based on the scale and nature of operations within each sub-area. There have been no changes to the planning goals or strategies for the NEEWC. The main redevelopment focus in this large area continues to be geographic consolidation by capabilities and scale of operations.  
(b) (5)

The FY22 CMP update presents minor changes to the original plan. These changes occur primarily on Two Mile Mesa but also at TA-16, TA-15, and TA-36, and are generally to add new storage facilities. The following table lists the changes in the current update by TA:

gfshgfsghds

Summary of NEEWC Revisions

Technical Area	Change and Descriptive Location	Projected Dates
	(b) (5)	

2 Planning Areas continued

(b) (5)



Figure 2X: Two Mile Mesa-West Illustrative Plan

(b) (5)



Figure 2Y: Two Mile Mesa-East Illustrative Plan

2 Planning Areas continued

(b) (5)



Figure 2Z: TA-16 Illustrative Plan

(b) (5)



Figure 2AA: TA-15 Illustrative Plan

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2 Planning Areas continued

(b) (5)



**Near Term Demolition – Two Mile Mesa-West**

(b) (5)



2 Planning Areas continued

(b) (5)



**Near Term Construction – Two Mile Mesa-West**

(b) (5)



2 Planning Areas continued

(b) (5)



Mid Term Demolition – Two Mile Mesa-West

(b) (5)



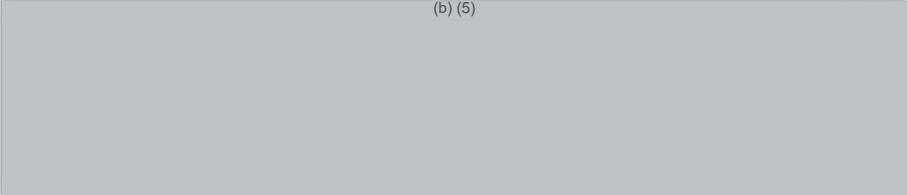
2 Planning Areas continued

(b) (5)



Mid Term Construction – Two Mile Mesa-West

(b) (5)



2 Planning Areas continued

(b) (5)



**Near Term Demolition – Two Mile Mesa-East**

(b) (5)



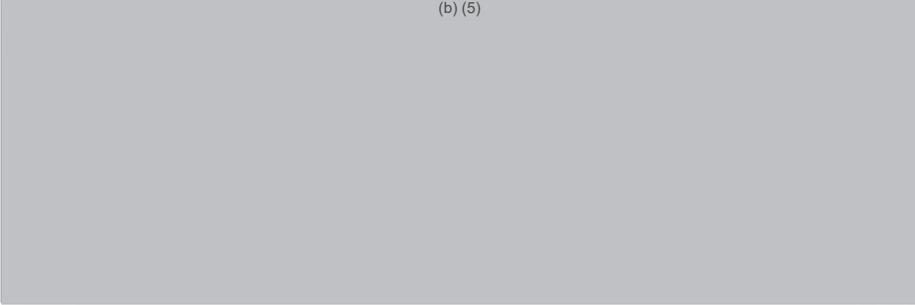
2 Planning Areas continued

(b) (5)



**Near Term Construction – Two Mile Mesa-East**

(b) (5)



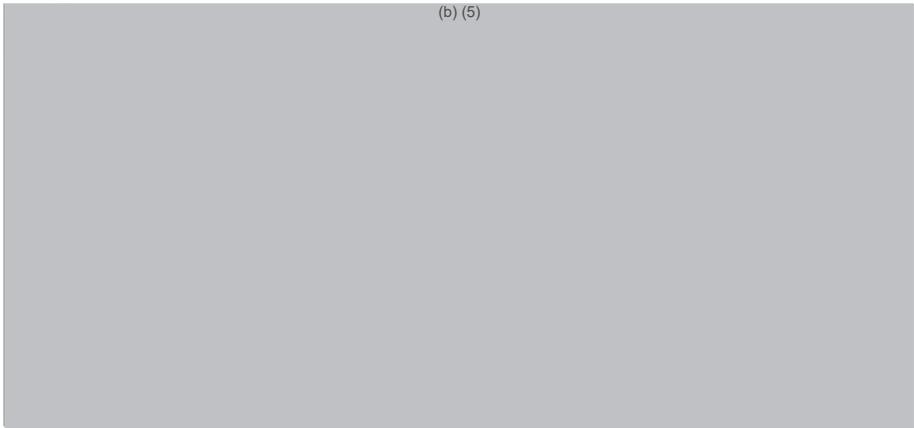
2 Planning Areas continued

(b) (5)



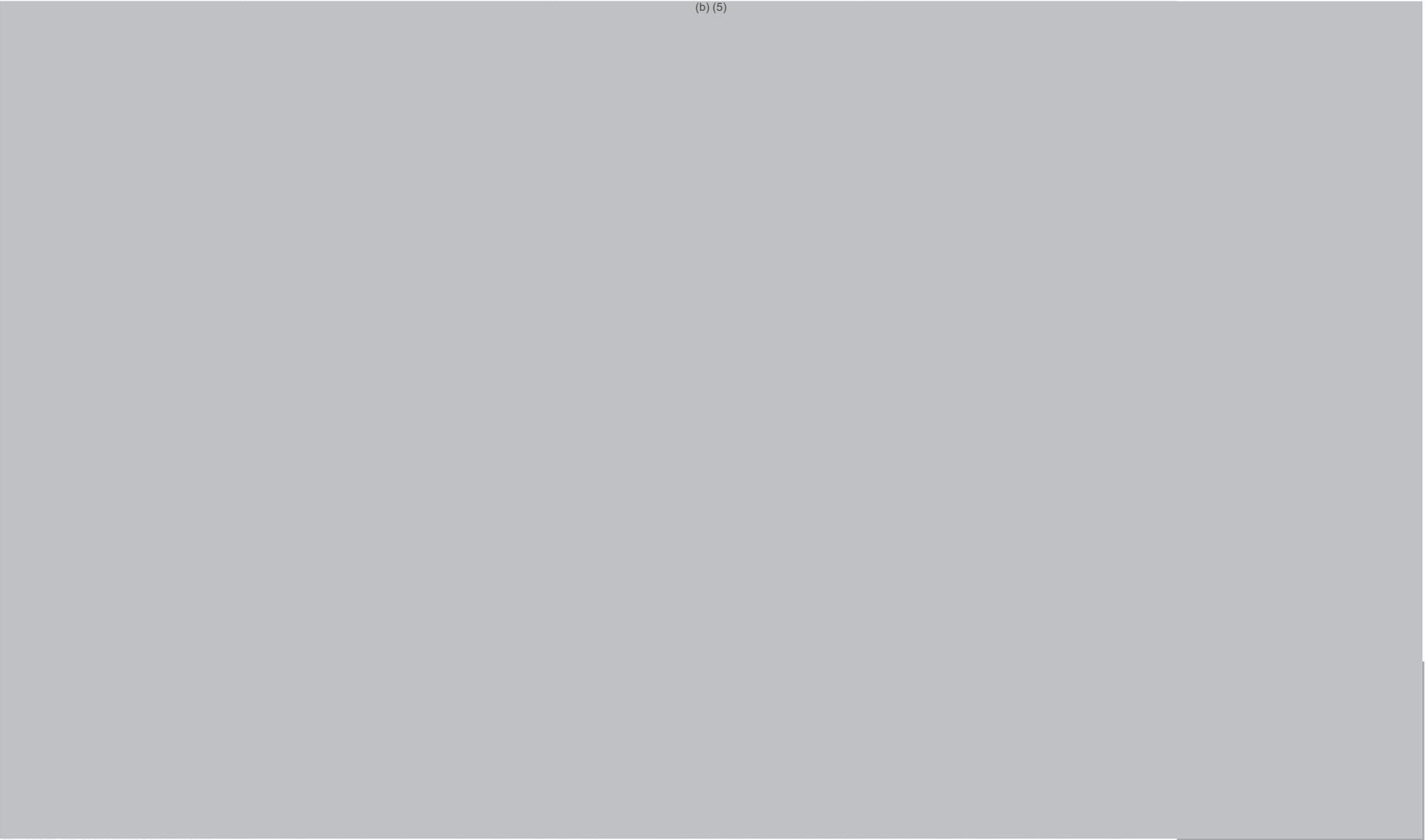
Near Term Demolition – TA-16

(b) (5)



2 Planning Areas continued

(b) (5)



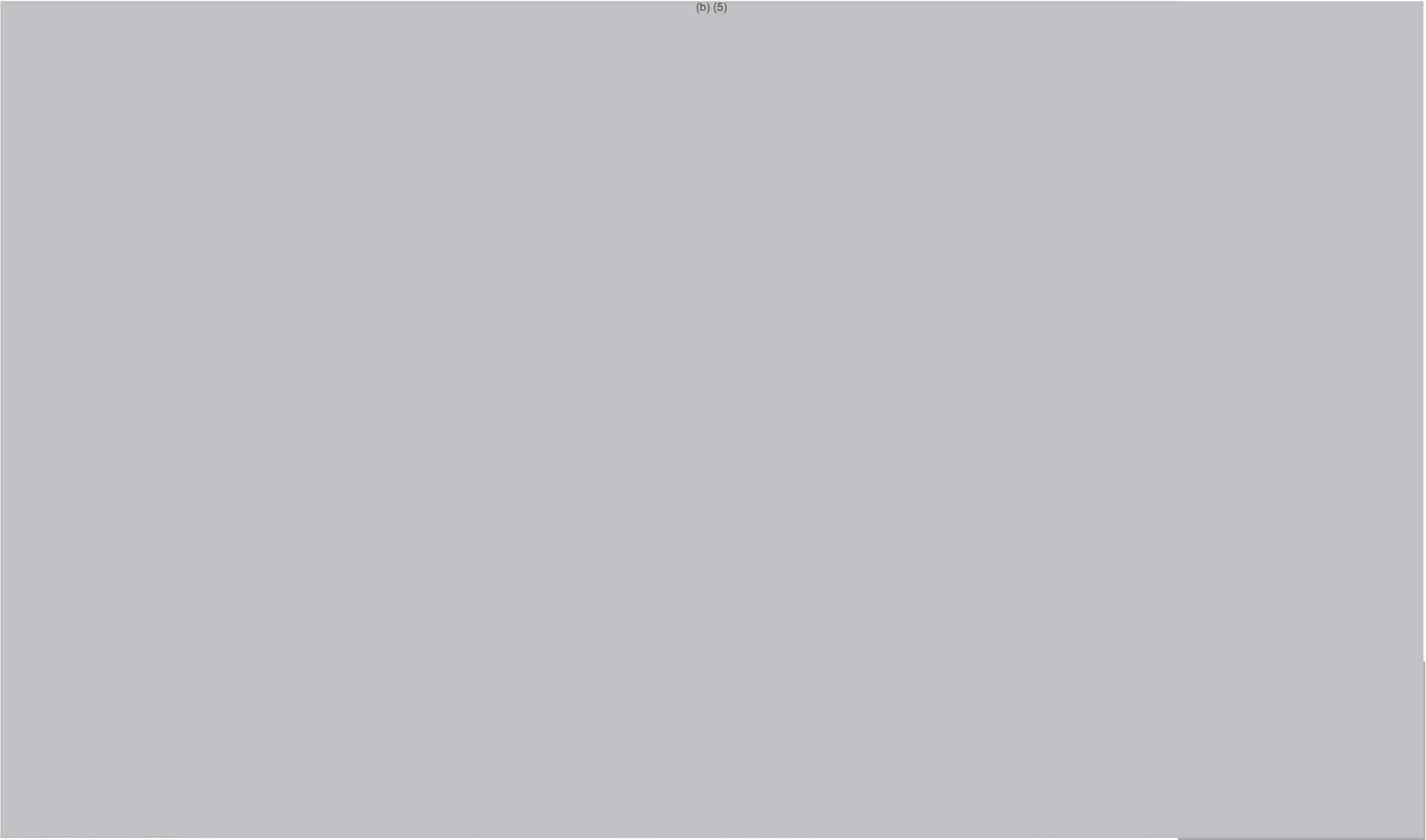
Near Term Construction – TA-16

(b) (5)



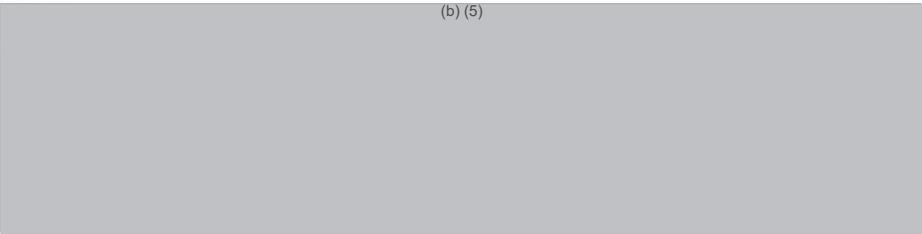
2 Planning Areas continued

(b) (5)



Mid Term Demolition – TA-16

(b) (5)



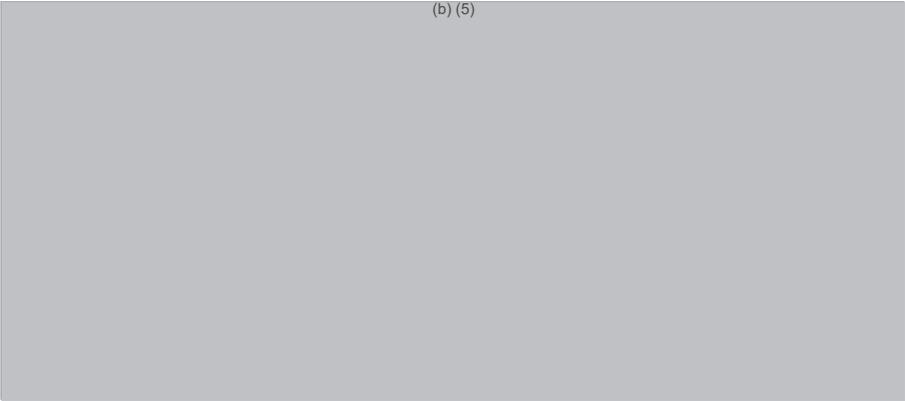
2 Planning Areas continued

(b) (5)



Mid Term Construction – TA-16

(b) (5)



2 Planning Areas continued

(b) (5)



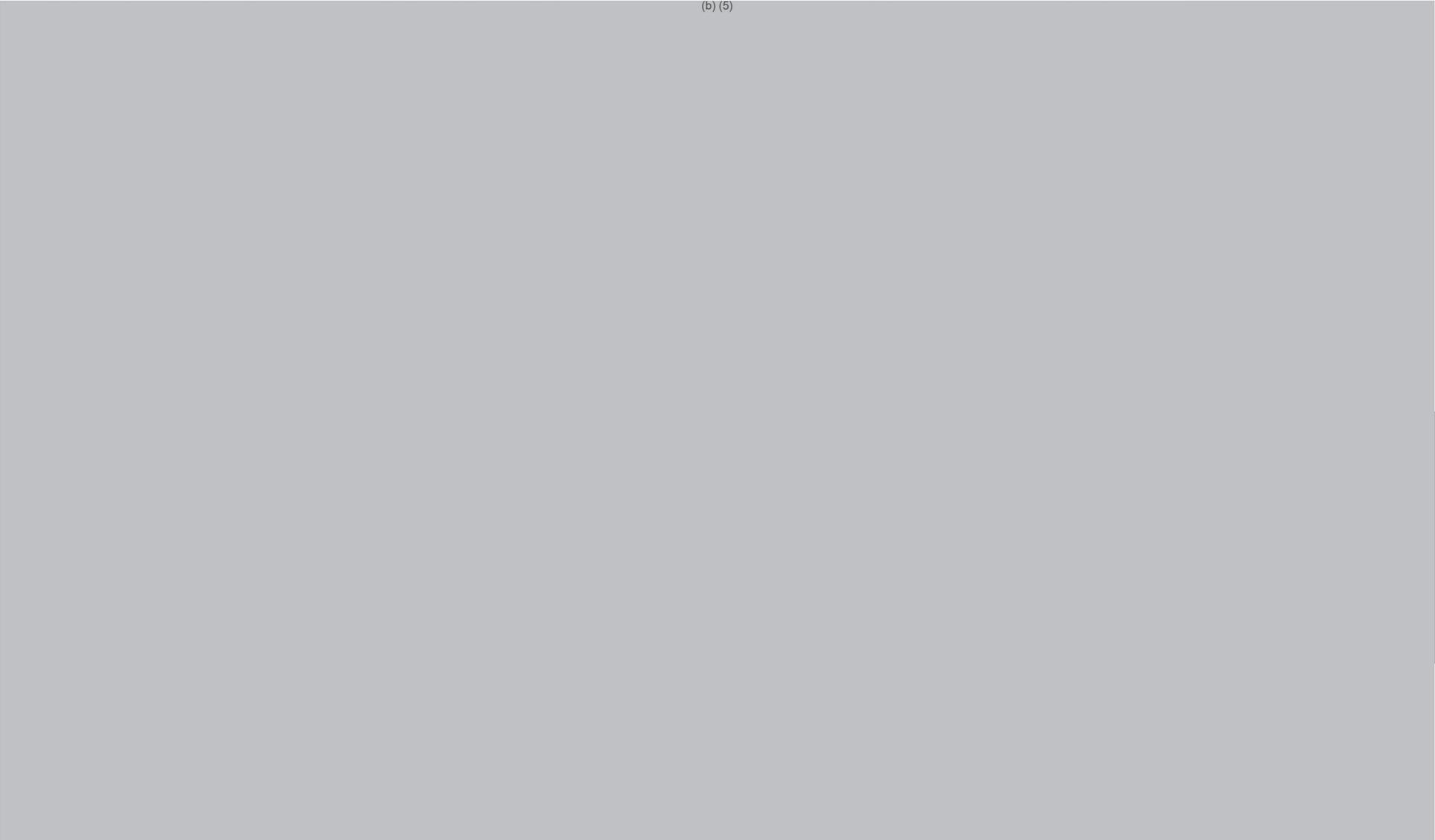
Long Term Demolition – TA-16

(b) (5)



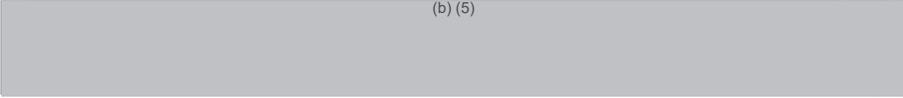
2 Planning Areas continued

(b) (5)



Long Term Construction – TA-16

(b) (5)



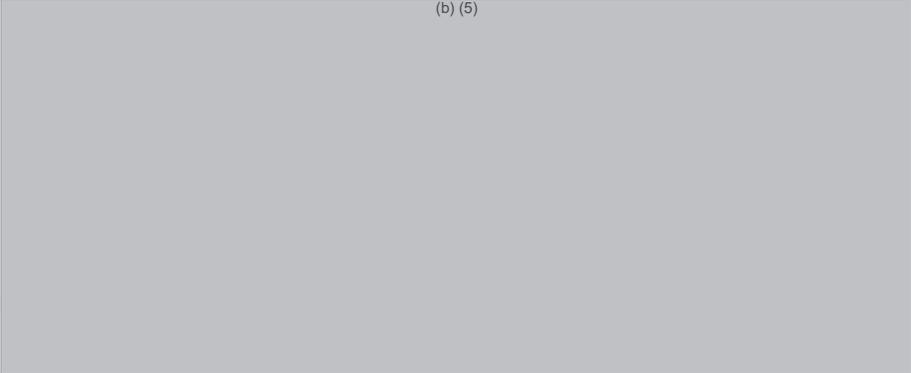
2 Planning Areas continued

(b) (5)



Near Term Demolition – TA-15

(b) (5)



2 Planning Areas continued

(b) (5)



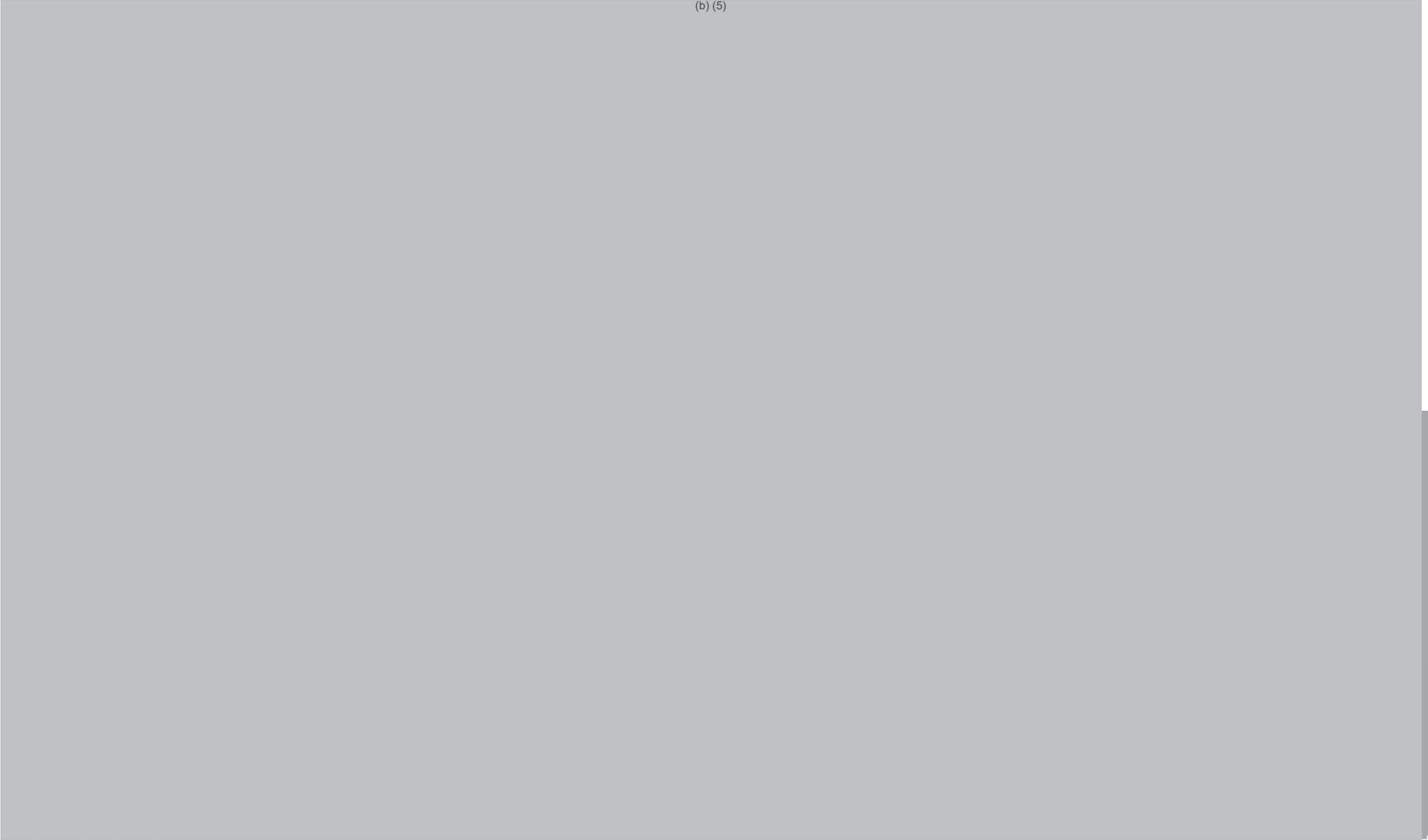
Near Term Construction – TA-15 and TA-36

(b) (5)



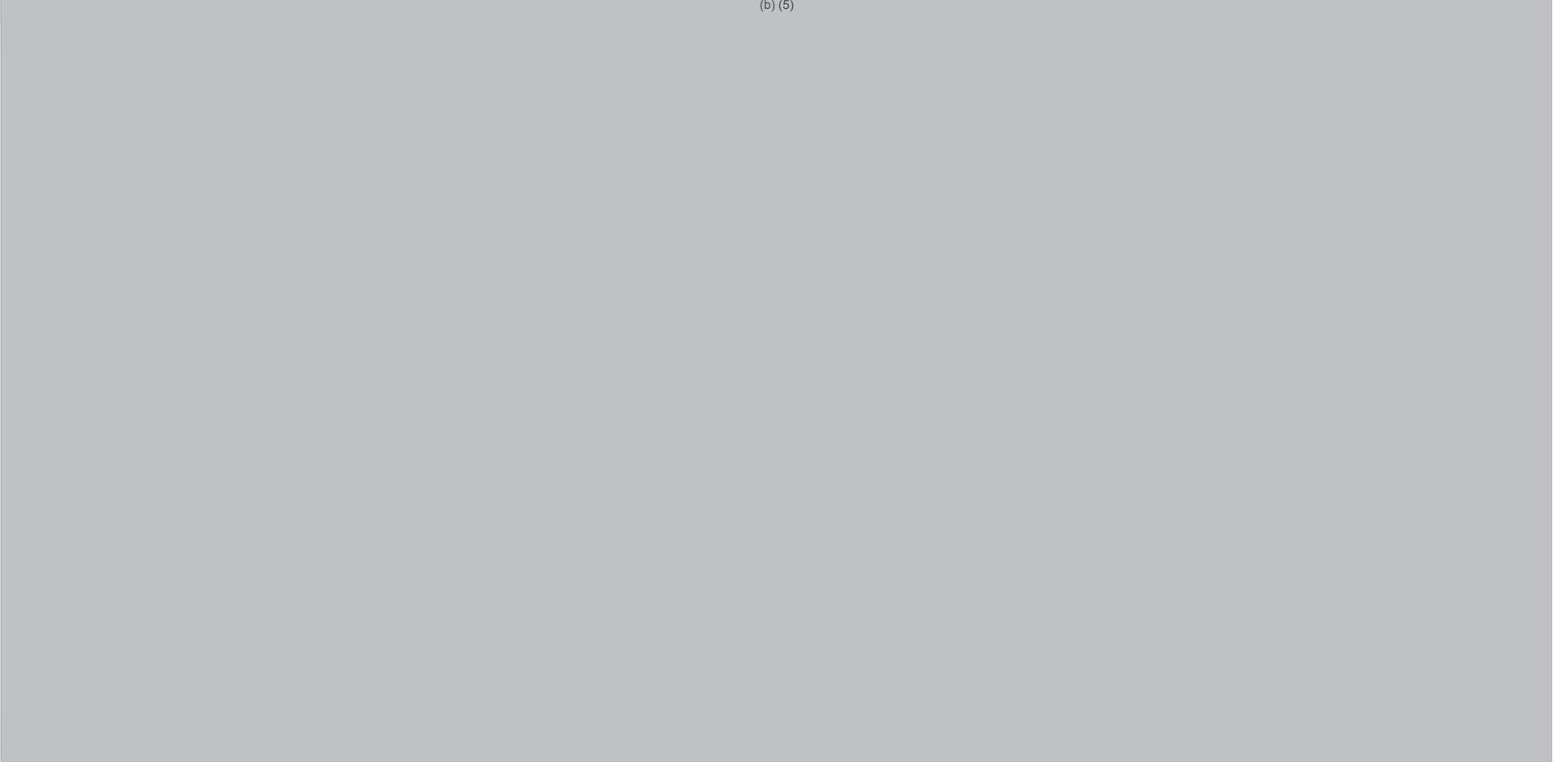
2 Planning Areas continued

(b) (5)



Mid Term Demolition – TA-15

(b) (5)



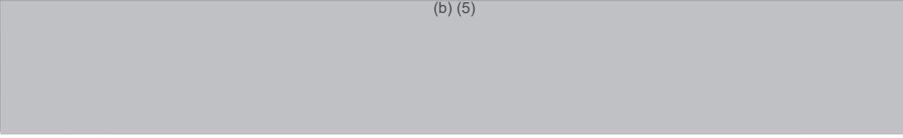
2 Planning Areas continued

(b) (5)



Mid Term Construction – TA-15

(b) (5)



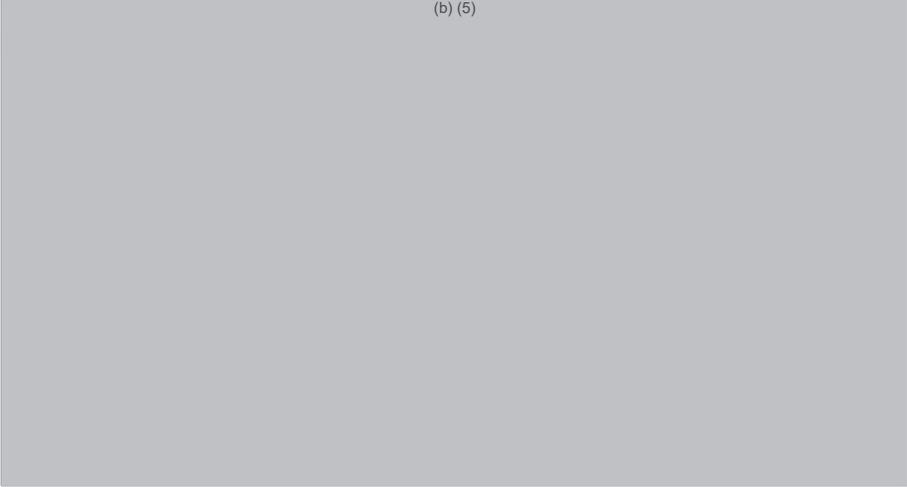
2 Planning Areas continued

(b) (5)



Long Term Demolition – TA-15

(b) (5)



## 2.4 Balance of Site – TA-72 and TA-33

### 2.4.1 Balance of Site – TA-72

Historically, TA-72 has been mostly undeveloped. It has served as the main transportation corridor for NM 502 and is currently the location of one of two main entry points onto LANL. The FY21 CMP depicted a new location in TA-72 for LANL's main warehouse and distribution center, replacing the shipping and receiving facility currently located in TA-03 (TA-03-0030). Relocation of LANL's shipping and receiving operations out of TA-03 is identified as a key component of the implementation plan for the Core Area.

(b) (5)  
 (b) (5)

The FY21 CMP projected employee growth at 2,000 to 5,000 over the next several years. Following existing demographic distribution, 60 to 80 percent of new employees would commute from outside Los Alamos County. Combined with the number of craft and construction personnel needed for demolition and new construction in the near term, the CMP identified the potential need for several transportation initiatives. These initiatives included increased onsite and offsite transit service, a new transit center facility, parking management strategies, and a goal of reduced transportation-generated greenhouse gas emissions. Studies related to these and associated issues are ongoing as part of transportation planning for the Laboratory. In this context,

(b) (5)

Further study and analyses will be required and have begun. One aspect of these studies will be consideration of opportunities to consolidate distribution operations with transit parking and transfers, either in the same or proximate locations.

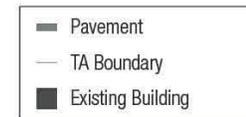
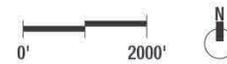


Figure 2AS: Tech Area 72

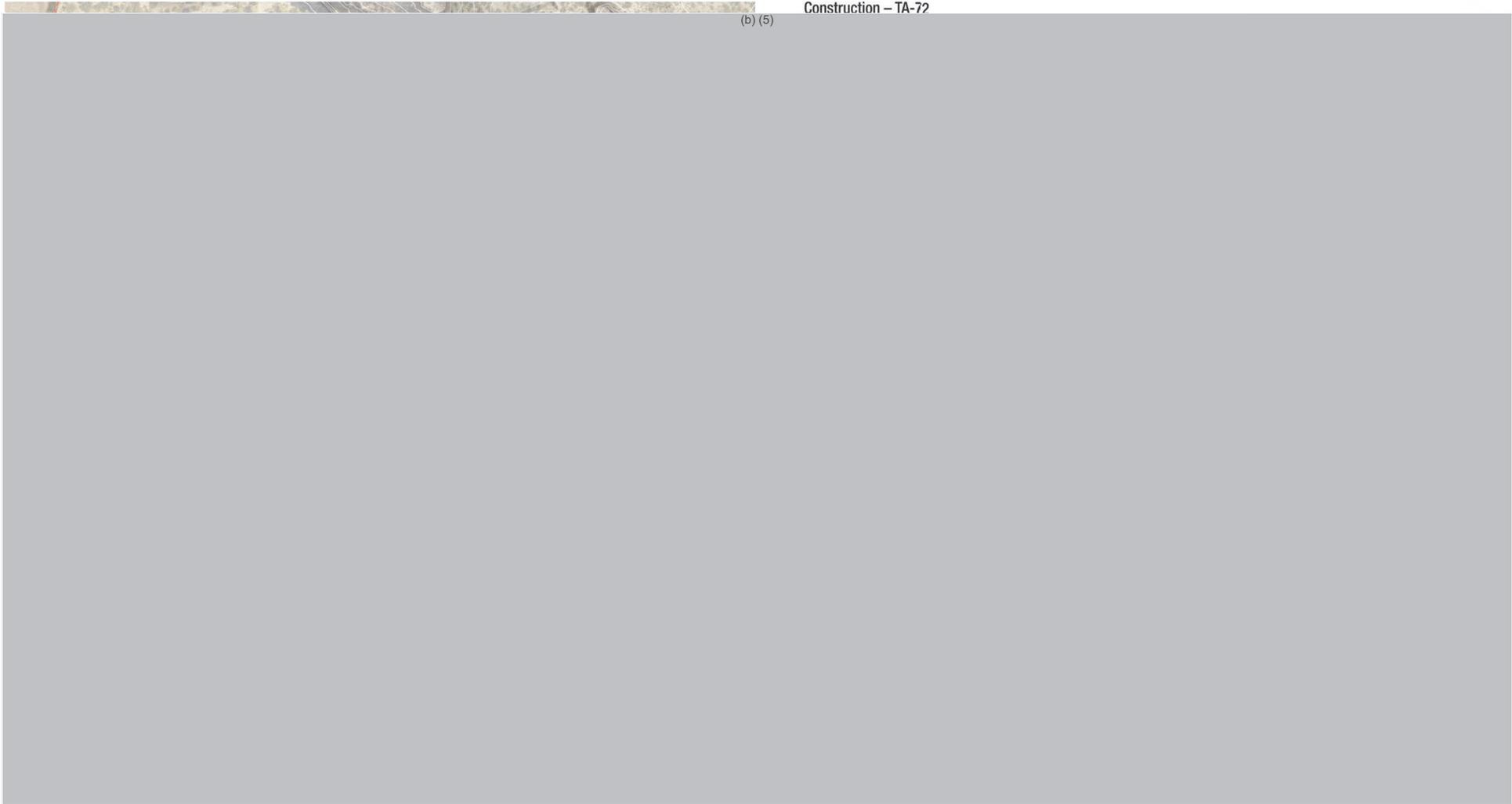


Figure 2AT: TA-72 proposed development

2 Planning Areas continued

2.4.2 Balance of Site – TA-33

It is understood that exploration of remote parking and a transit hub would be just one element of a broader transportation strategy designed to support LANL mission growth and mitigate traffic congestion.

(b) (5)

The TA-33 site, in support of Global Security missions, continues to provide unique programmatic and experimental capabilities that require remote field conditions and isolated infrastructure. (b) (7)(E), (b) (7)(F)  
(b) (7)(E), (b) (7)(F)

Several discrete operational areas are situated within TA-33; however, most existing facilities are located at the main site, including offices, conference rooms, machine shops, an anechoic chamber, a light laboratory/shop, and a secured space. Most of the projected new construction was depicted in the main area, which is largely a Limited Area. The FY21 CMP identified new laboratory/office space as one of the most urgent needs at the Laboratory. (b) (5)  
(b) (5)

Under the current operational configuration, the developable footprint of the site is extremely limited; therefore, new construction will require demolition of some existing site infrastructure. The FY21 CMP depicted a robust schedule for demolition and new construction, which the update refines. The projected sequencing for new construction remains the same; however, (b) (5)  
(b) (5)



Figure 2AU: TA-33 Demolition

2 Planning Areas continued

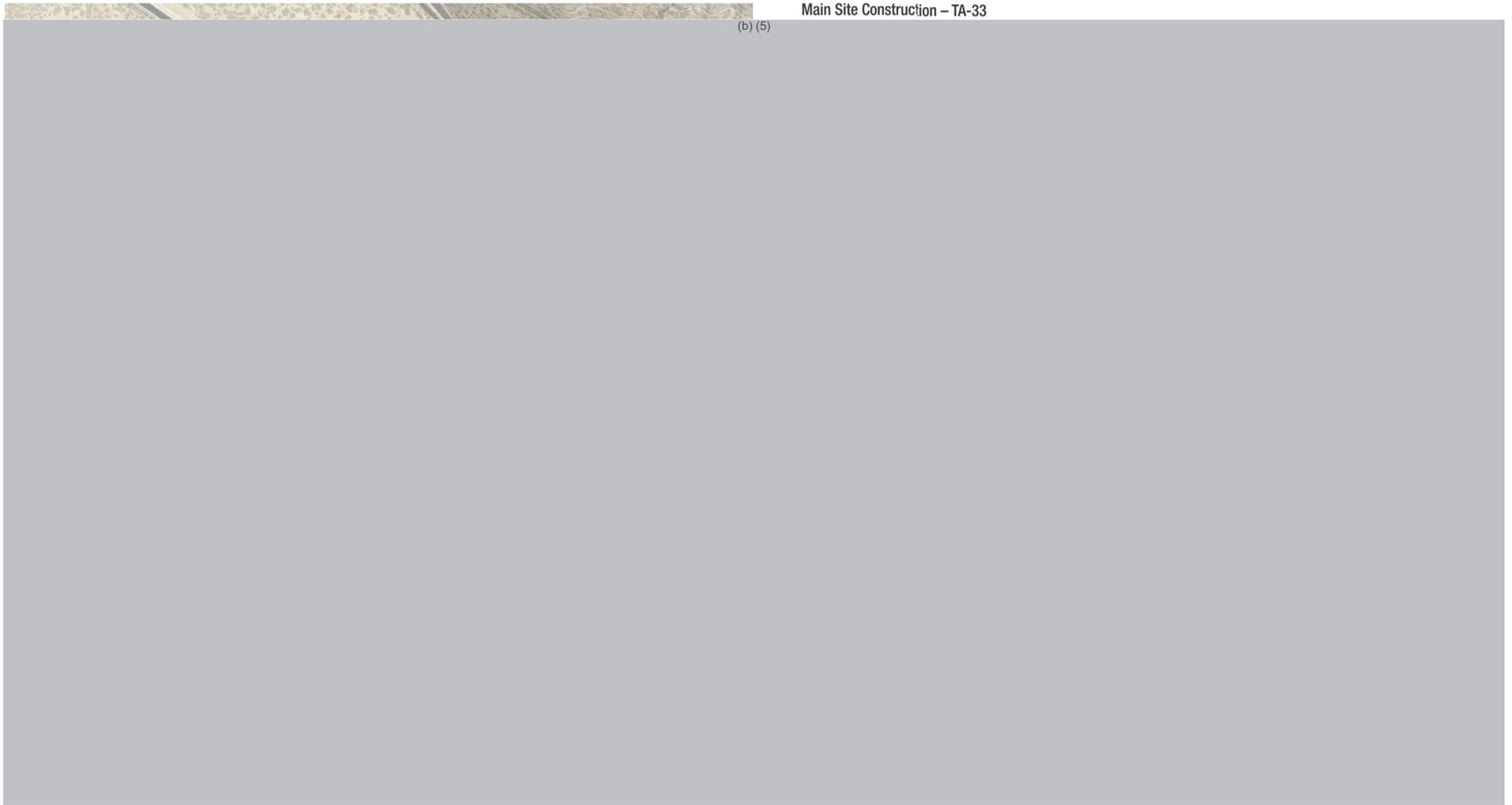


Figure 2AV: TA-33 Proposed Development

# 03 Next Steps

2022 CAMPUS MASTER PLAN UPDATE



(b) (5)



Figure 3A: Core Area

### 3 NEXT STEPS

Site modernization is a key component of LANL's ability to deliver on mission. Through the end of the current fiscal year and into FY23, campus master planning efforts will continue to refine individual planning areas — especially in the Pajarito Corridor — and coordinate with transportation, utilities, and environmental planning as they inform the physical development of the site. With direction from leadership, project priorities and funding will be established, and focus areas for continued planning will include those identified in the following sections.

#### 3.1 Facilities Leasing

Offsite leases have been an important strategic element in the Laboratory's approach to managing space demands and traffic congestion onsite.

In Santa Fe, the Laboratory's Guadalupe site is fully operational. The Pacheco Street office complex has one building fully open, and the second is expected to be ready for occupancy in the fall of 2022.

In Los Alamos, a newly leased building will provide approximately 20,000 square feet of light laboratory and office space. The primary users — bioscience employees — are currently housed in the Health Research Laboratory, TA-43-0001. Conceptual design has started for the new facility, with completion of construction anticipated in the summer of 2023.

In addition to office and light laboratory space, LANL is also seeking 40,000 to 160,000 square feet of warehouse space as far distant as the Albuquerque area. An initial request for proposal specified existing space, but the request was expanded to allow for delivery of space within 24 months. Seven proposals were received and are under consideration.

#### 3.2 Enhanced Communication of Campus Planning at LANL

LANL is developing a CMP Dashboard that depicts proposed CMP facility projects with multiple corresponding and sortable attributes. The Dashboard will include a record of the most recently completed CMP. Viewers will be able to filter CMP facilities by timeframe, directorate, location, capabilities, and more. This interactive tool will enhance communication across the Laboratory, improve planning agility, and support a common commitment to mission among employees. The Dashboard is currently in development and will be broadly available to LANL and NNSA personnel.

The Whiteboard is an internal tool used primarily in development of the CMP. Whiteboard technology allows tracking and real-time, interactive consideration of alternative development scenarios. These scenarios include placement of facilities, utilities, and circulation layouts and include roadway configurations. The Whiteboard provides access to numerous layers of information that enter into and affect planning decisions. The Whiteboard is also used for presentation purposes when deliberating

planning options with division managers and leadership in all directorates. The Whiteboard continues to be updated and refined. It houses most of the attribute data that feeds the CMP Dashboard.

Facility siting review will become better coordinated with long-term planning as the CMP is integrated into the shorter-term siting review processes. This coordination will improve efficiency and support the environmental and cultural interests of LANL's stewardship commitments. It will also help integrate the timing of different project phases within a specific project and with other projects located nearby.

#### 3.3 Coordination with Other LANL Planning Initiatives

*Schedule Integration.* LANL has established a working group with N3B, the contractor responsible for cleaning up contamination that resulted from LANL operations before 1999. This working group includes environmental protection subject matter experts to coordinate planned construction of new facilities with sampling and mitigation activities. This new line of communication advises N3B on demolition and construction timing and priorities, allowing N3B to better plan their activities. This communication channel will help ensure a smoother process with greater certainty in timing.

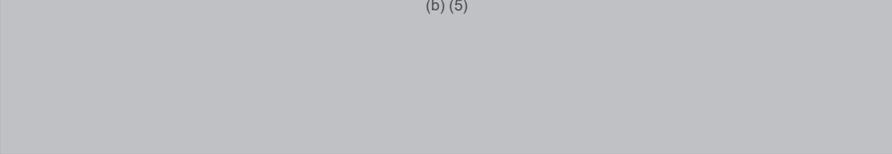
*Transportation Planning.* Development planning will continue coordinating with transportation planning to ensure that all employees have optimal access to and from work locations. Especially in growth areas, this effort will require operational solutions to be matched with circulation design, parking, and transit maneuvering. Safety considerations for pedestrians, vehicles, and all modes of transportation will be of primary importance and concern.

*Resilience and Sustainability Planning.* LANL has a long-standing commitment to integrating the goals of Resilience and Sustainability into facility and site planning. This commitment has strengthened in the face of climate change. Two initiatives in process concurrently with CMP development are the 2022 Climate Change Vulnerability Assessment and Resilience Plan (VARP) and the Net-Zero Emissions Plan. The results of those planning efforts will be integrated into CMP planning. In conformance with one of DOE's strategies for achieving 100-percent carbon pollution-free electricity (CFE) by 2030, (b) (5)

*Site-Wide Environmental Impact Statement.* LANL is due to prepare its first new Site-Wide Environmental Impact Statement (SWEIS) since 2008. The SWEIS will consider all new planned and proposed facilities and operations at the Laboratory. Close coordination with the CMP will be required and will affect future development plans for construction.

### 3 Next Steps continued

(b) (5)



The Laboratory is making progress toward modernizing the site and creating a more campus-like character while respecting its commitments to site and environmental stewardship, sustainability, resilience, and foremost — to its national security mission.

# 04 Acronyms

2022 CAMPUS MASTER PLAN UPDATE





## 4 ACRONYMS

CFE	Carbon Pollution-Free Electricity
CMP	Campus Master Plan
DARHT	Dual-Axis Radiographic Hydrodynamic Testing (Facility)
ECF	Entry Control Facility
ELF	Explosives Lasers Facility
EM	Environmental Management
EO	Executive Order
ERICA	Energy Resilient Infrastructure and Climate Adaptation
FY	Fiscal Year
GI	Green Infrastructure
LANL	Los Alamos National Laboratory
LID	Low Impact Development
MAP	Master Asset Plan
MULAB	Multi-Use Laboratory
MUOB	Multi-Use Office Building
N3B	Newport News Nuclear BWXT Los Alamos
NA-90	NNSA Office of Infrastructure
NEEWC	National Energetic and Engineering Weapons Campus
NA-LA	Los Alamos Field Office
NIE	Network and Infrastructure Engineering
NNSA	National Nuclear Security Administration
PCOB	Pajarito Corridor Office Building
PCOC	Pajarito Corridor Office Complex
POWER	Performance Oriented Weapons Explosives Research
PPY	Pits Per Year
PV	Photovoltaic Array
SWEIS	Site-Wide Environmental Impact Statement
TA	Technical Area
VARP	Vulnerability Assessment and Resilience Plan
WECF	West Entry Control Facility

4 Acronyms continued

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05

# Utility Project List

2022 CAMPUS MASTER PLAN UPDATE





## 5 UTILITY PROJECT LIST - PAJARITO CORRIDOR & NEEWC

(b) (5), (b) (7)(E), (b) (7)(F)



