ATTACHMENT N

FIGURES

List of Figures for Permit

Figure 1: LANL Regional Location Map
Figure 2: LANL Facility Boundary and Technical Area (TA)-Specific Map
Figure 3: LANL Facility Boundary with Detail of Non-LANL Areas
Figure 4: TA-3 Security Fences, Entry Gates, and Entry Stations
Figure 5: Reserved
Figure 6: TA-50 Security Fences, Entry Gates, and Entry Stations
Figure 7: TA-54, Area L, Security Fences, Entry Gates, and Entry Stations
Figure 8: TA-54, Area G, Security Fences, Entry Gates, and Entry Stations
Figure 9: TA-54 West Security Fences, Entry Gates, and Entry Stations
Figure 10: TA-55 Security Fences, Entry Gates, and Entry Stations
Figure 11: TA-3 Location Map
Figure 12: TA-3, Building 29, Location Map
Figure 13: TA-3 Building 29, Container Storage Unit, Portion of Room 9010
Figure 14: TA-3, Building 29, Room 9020
Figure 15: TA-3, Building 29, Room 9030
Figure 16: Reserved
Figure 17: Reserved
Figure 18: Reserved
Figure 19: Reserved
Figure 20: Reserved
Figure 21: Reserved
Figure 22: TA-50 Location Map
Figure 23: TA-50 Building 69, Indoor & Outdoor Units
Figure 24: TA-54 Location Map
Figure 25: TA-54, Areas G, H, L, and TA-54 West Location Map
Figure 26: TA-54, Area L, Container Storage Units
Figure 27: TA-54, Area G, Container Storage Units
Figure 28: TA-54 Area G, Pad 9 (TWISP Domes 229, 230, 231, & 232)
Figure 29: TA-54, Area G, Pad 1 (Dome 226 & Bldg 54-412 (DVRS))
Figure 30: TA-54, Area G, Pad 3 (Dome 48)
Figure 31: TA-54, Area G, Pad 10
Figure 32: TA-54, Area G, Pad 5 (Domes 49 and 224; and Storage Sheds 144, 145, 146, 177, 1027, 1028, 1029, and 1041)
Figure 33: TA-54, Area G, Pad 6 (Domes 153 & 283)
Figure 34: TA-54, Area G, Storage Shed 8
Figure 35: TA-54, Area G, Building 33
Figure 36: TA-54, Area G, Pad 11 (Dome 375)
Figure 37: TA-54 West, Building 38 (High Bay and Low Bay) and Outdoor Pad
Figure 38: TA-55 Location Map
Figure 39: TA-55, Building 4, Location Map
Figure 40: TA-55, Building 4, Room B40– UCNI
Figure 41: TA-55, Building 4, Room K13– UCNI
Figure 42: TA-55, Building 4, Room B05– UCNI
Figure 43: TA-55, Building 4, Room B45 – UCNI
Figure 44: TA-55, Building 4, Vault– UCNI

Figure 45: TA-55, Building 4, Outdoor Container Storage Pad
Figure 46: TA-55, Building 185
Figure 47: TA-55, Building 4, Room 401, Storage Tank System Process Flow Diagram
Figure 48: TA-55, Building 4, Room 401, Cementation Unit Process Flow Diagram
Figure 49: Emergency Facilities at Los Alamos National Laboratory
Figure 50: TA-54, MDA H
Figure 51: Reserved
Figure 52: Reserved
Figure 53: Reserved
Figure 54: TA-63 Location Map
Figure 55: TA- 63 Transuranic Waste Facility
Figure 56: Transuranic Waste Facility Subsurface Vapor Monitoring Network

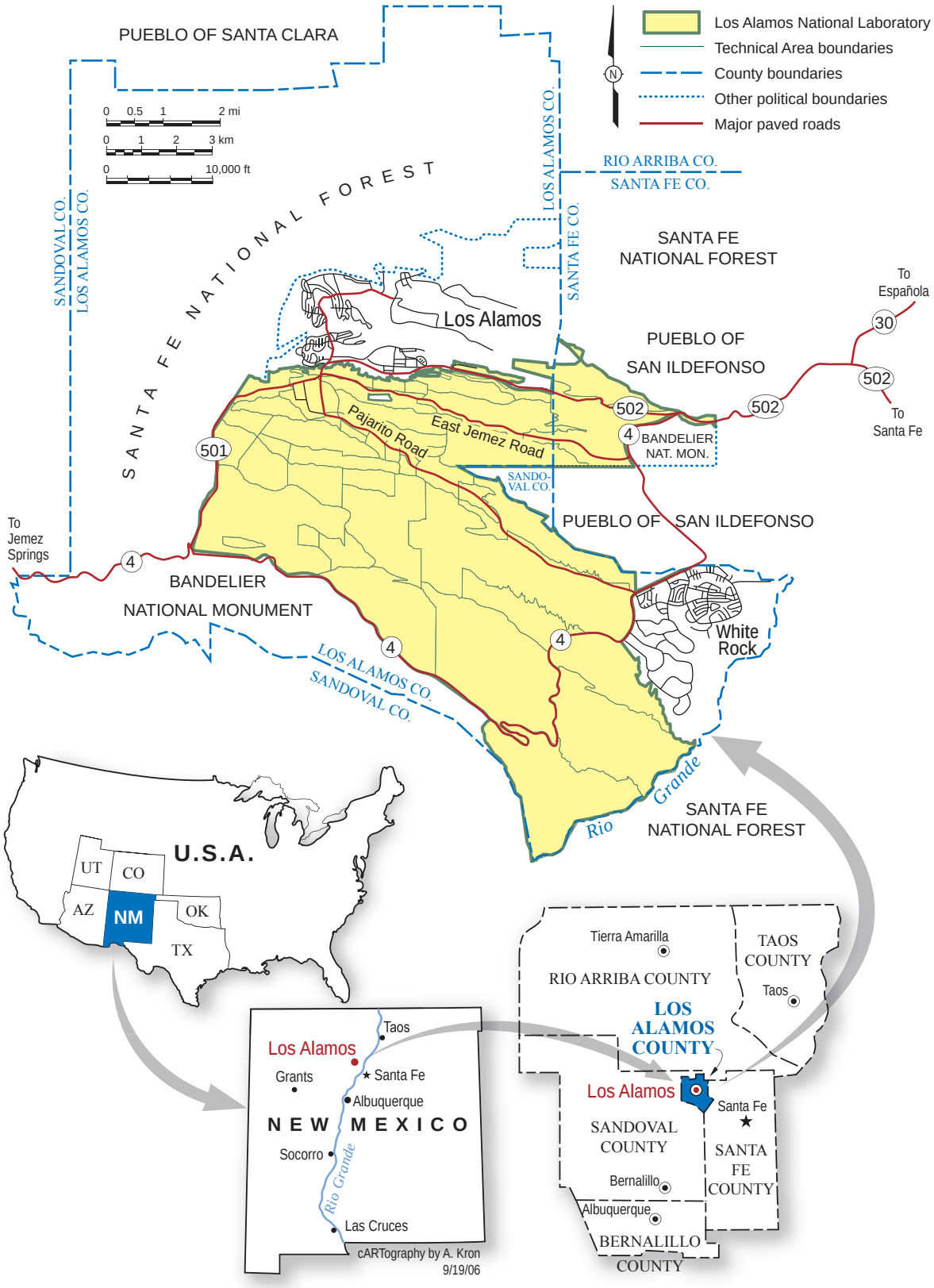
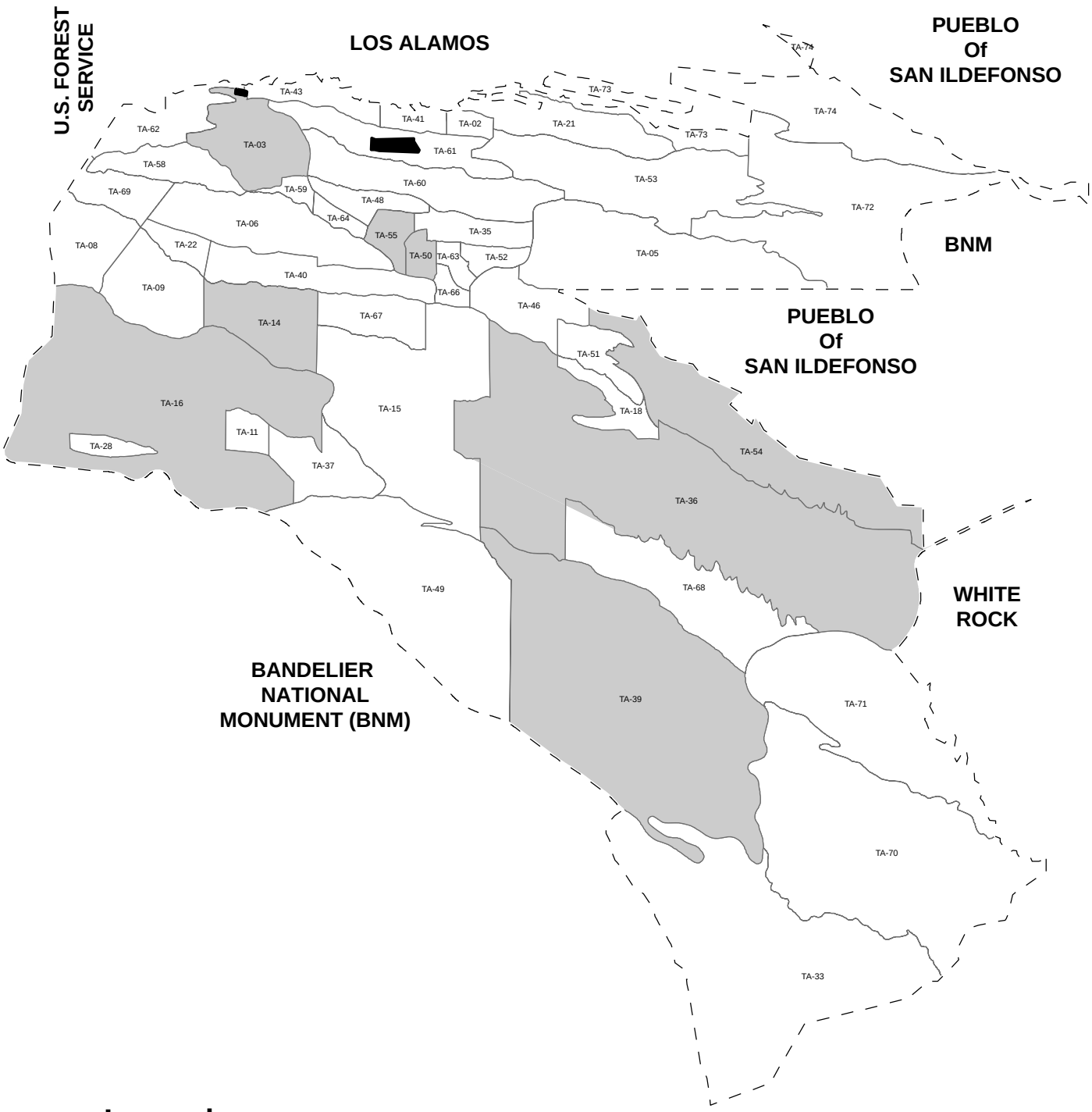


Figure 1

Regional Location Map of Los Alamos National Laboratory



Legend

Not LANL Property

0 5,000 10,000 Feet

Figure 2

Facility Boundary and Location Map of Los Alamos National Laboratory (LANL) Technical Areas (TAs)

Created by ERSS GIS TEAM. Map Number 06-0108 September12, 2005
State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
This map was created for work processes associated with the Environmental &Remediation Support Services. All other uses for this map should be confirmed with LANL EP-ERSS staff.
Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; infrastructure Planning Office. 10 February 2006
Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 01 February 2003 as captured 07 September 2004.

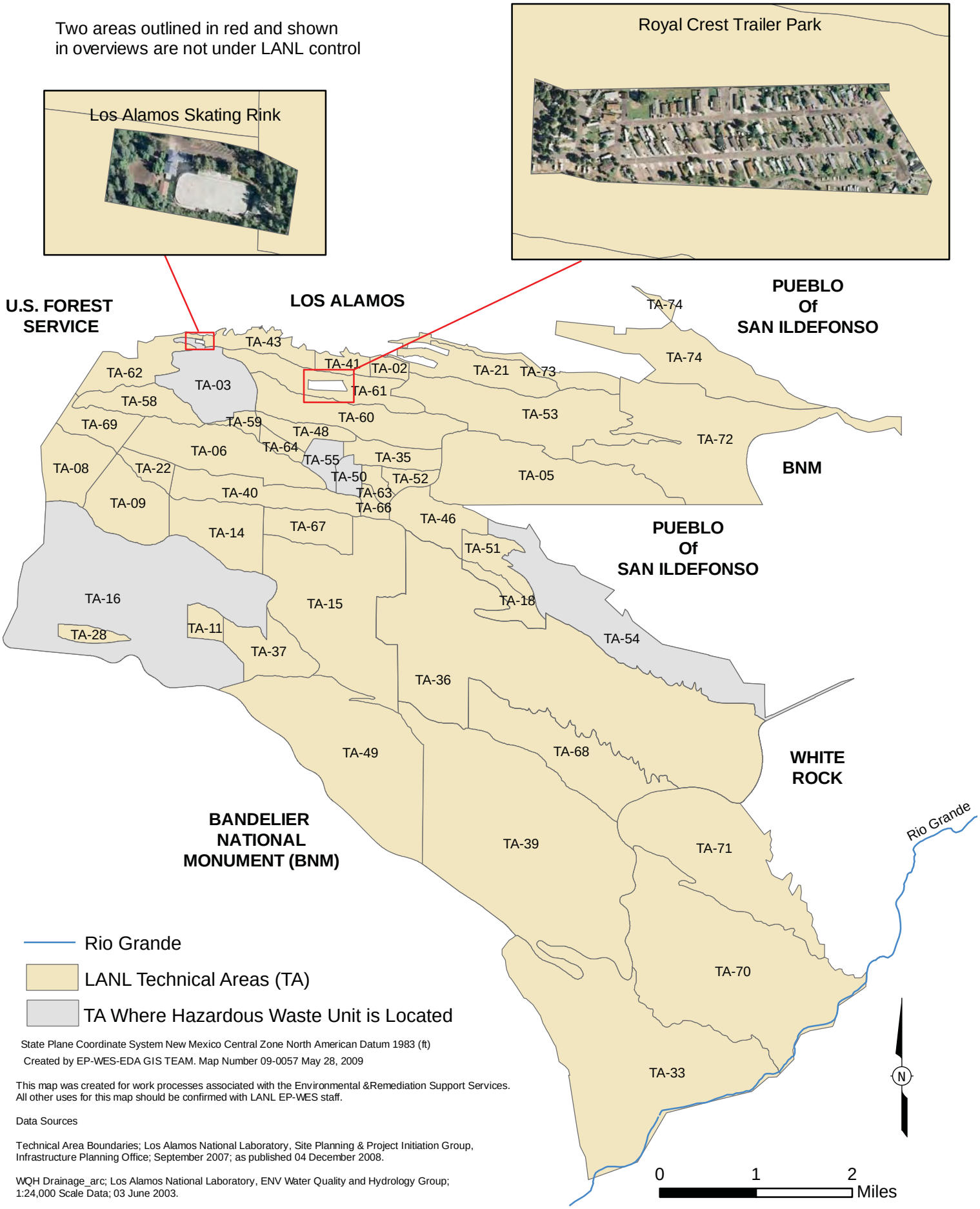


Figure 3: Los Alamos National Laboratory Facility Boundary with Detail of Non-LANL Areas

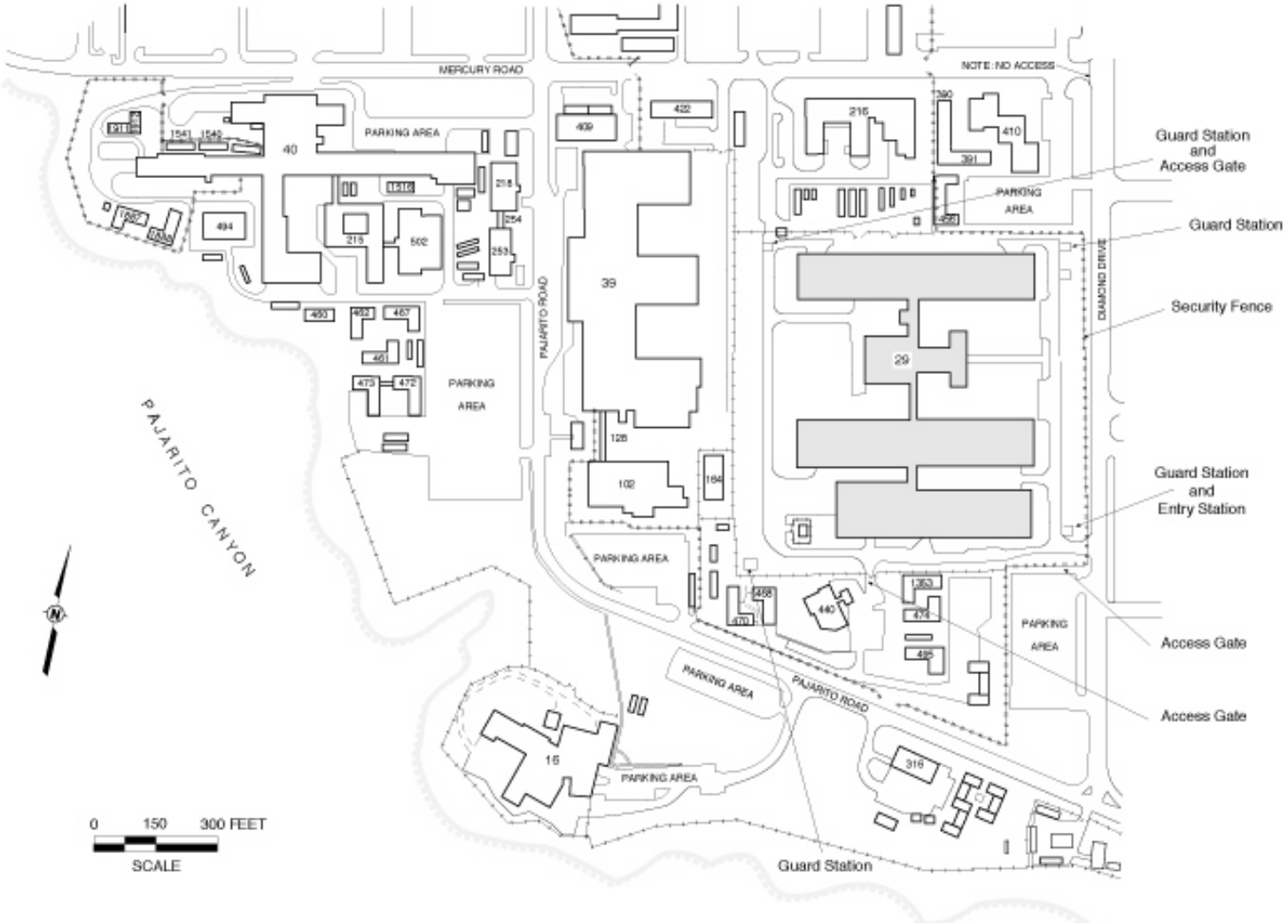


Figure 4
Technical Area (TA) 3 Location Map Showing Security Fences, Entry Gates, and Entry Stations

FIGURE 5 – RESERVED

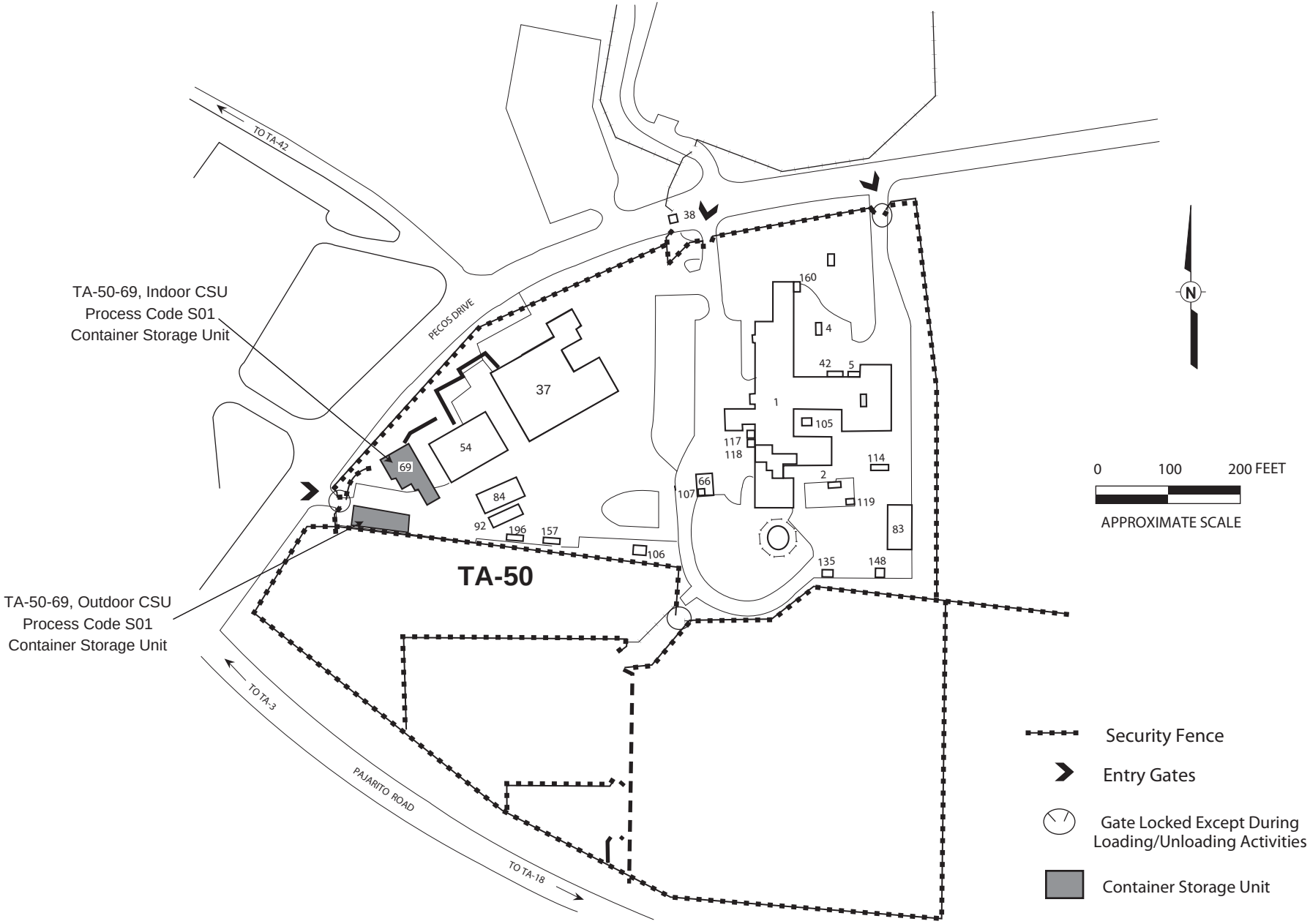


Figure 6:
Technical Area (TA) 50 Location Map Showing Security Fences, Entry Gates, and Entry Stations

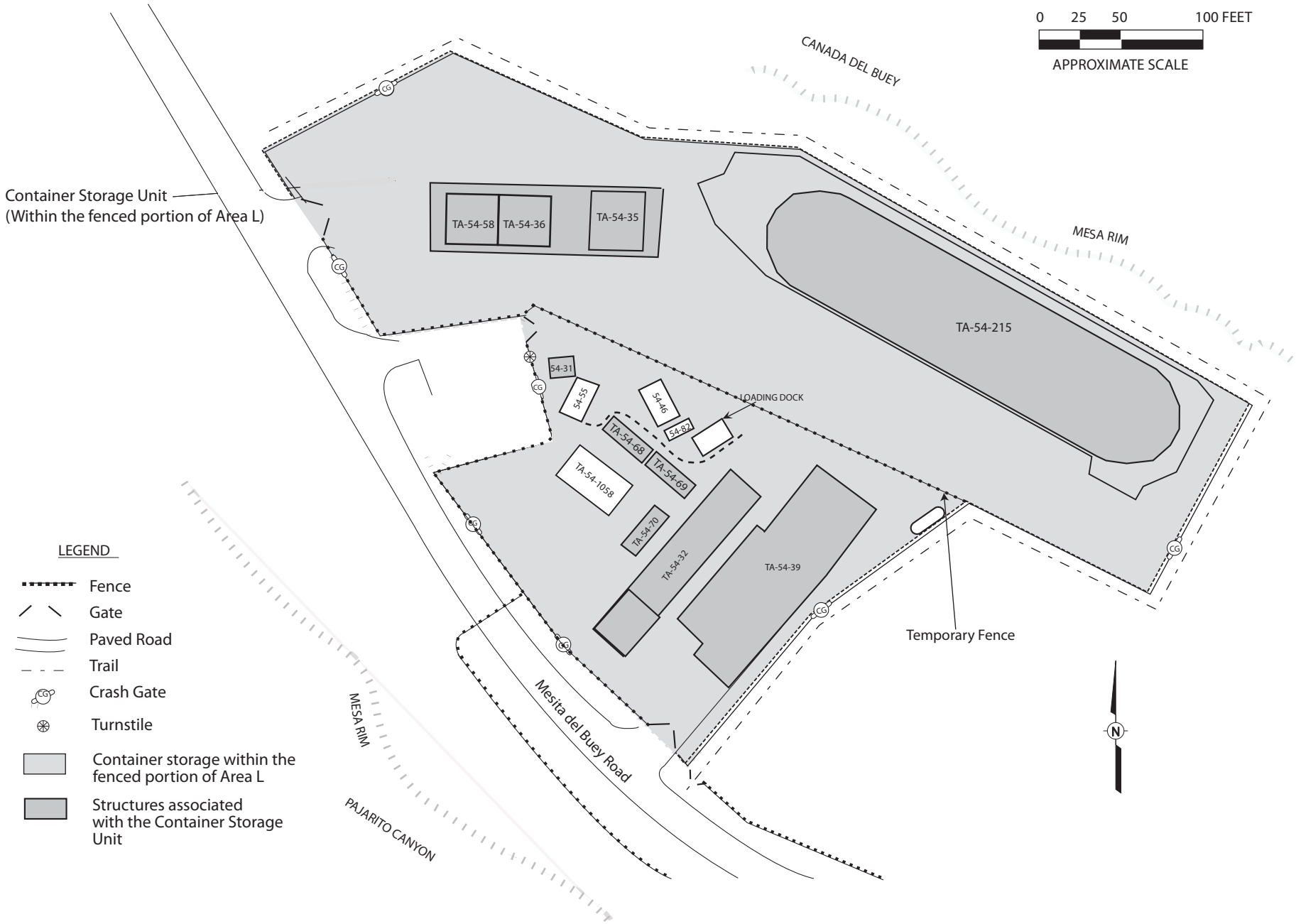
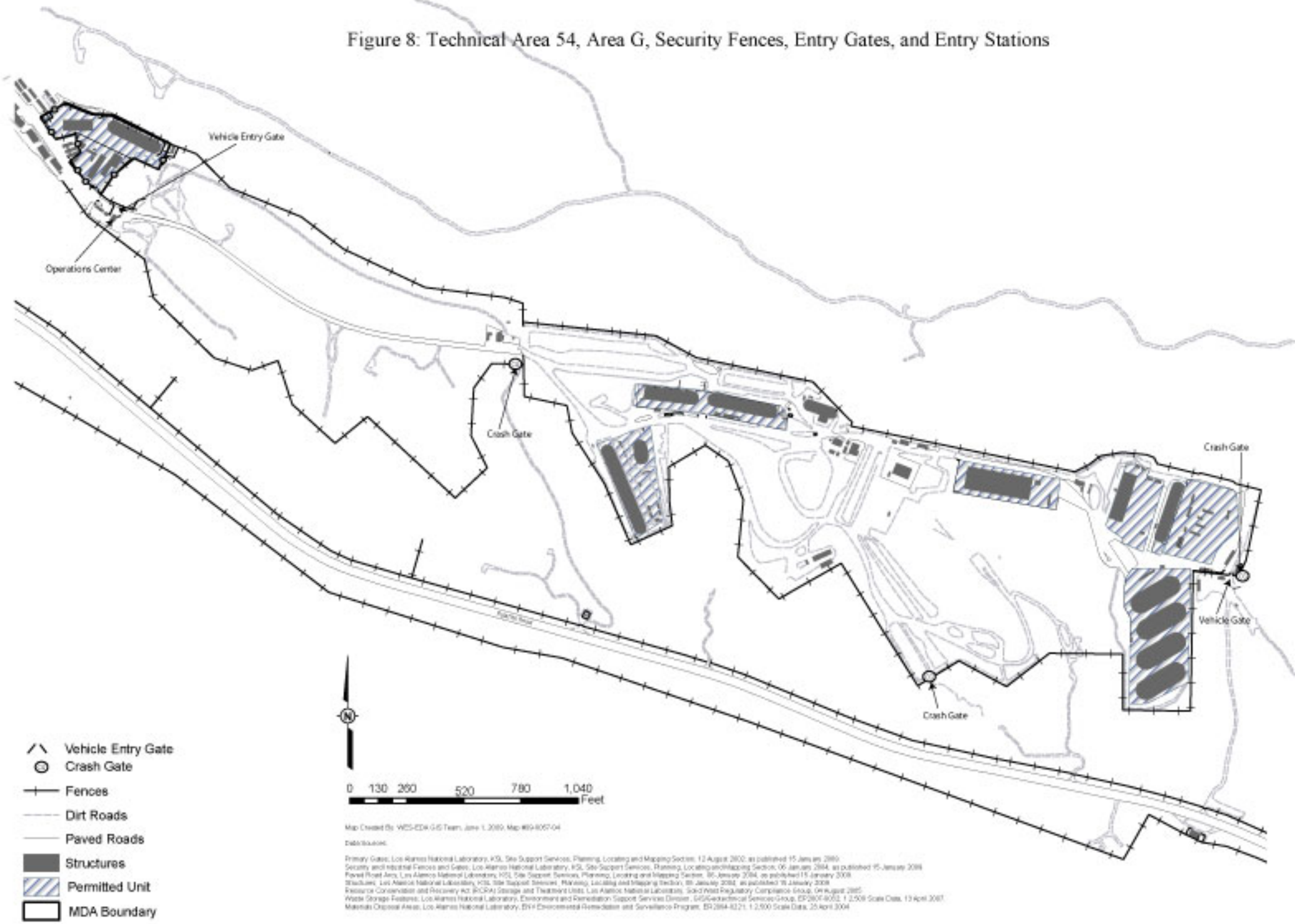


Figure 7: Technical Area 54, Area L, Security Fences, Entry Gates, and Entry Stations

Figure 8: Technical Area 54, Area G, Security Fences, Entry Gates, and Entry Stations



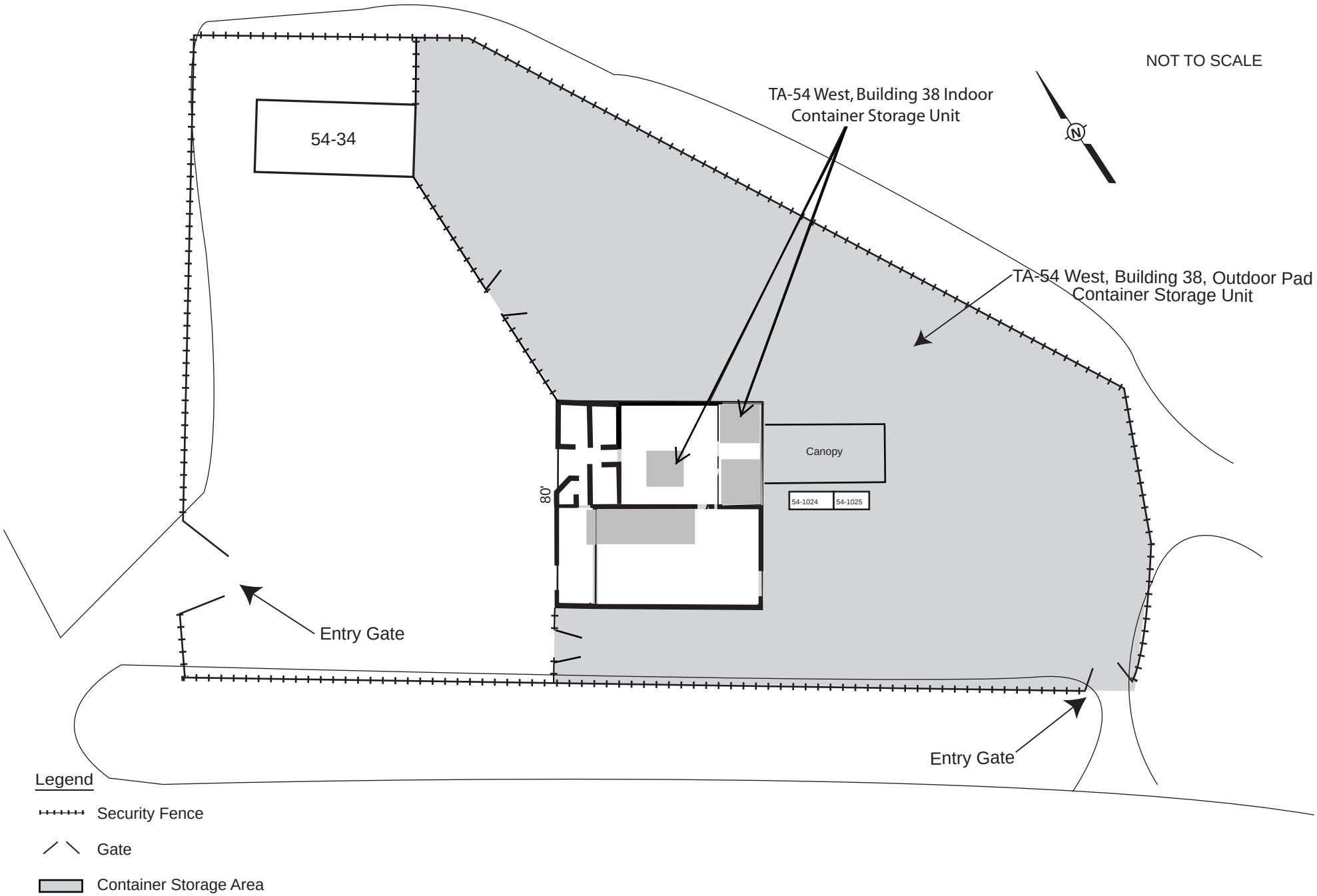


Figure 9
Technical Area (TA) 54 West Location Map Showing Security Fences, Entry Gates, and Entry Stations

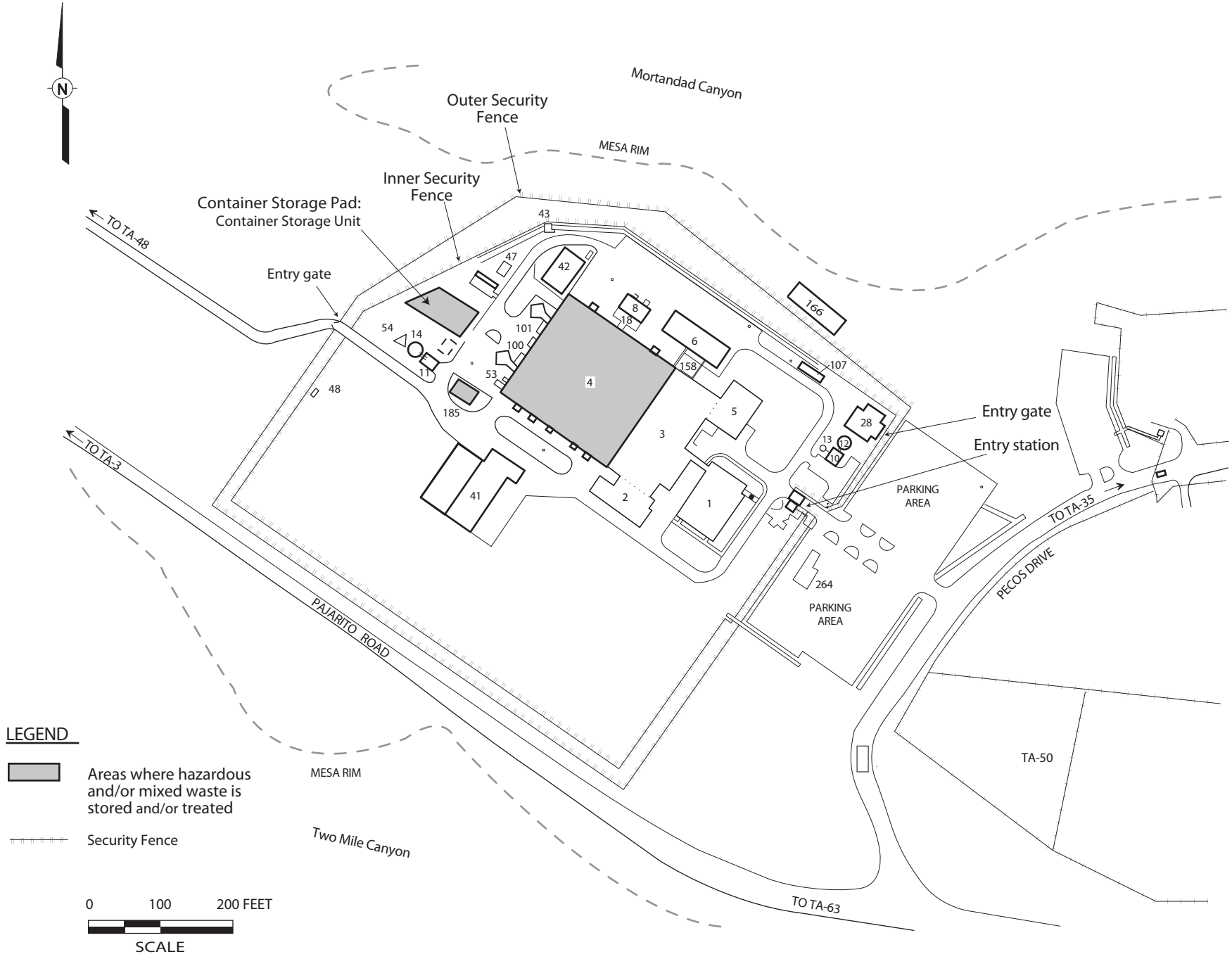


Figure 10
Technical Area (TA) 55 Location Map Showing Security Fences, Entry Gates, and Entry Stations

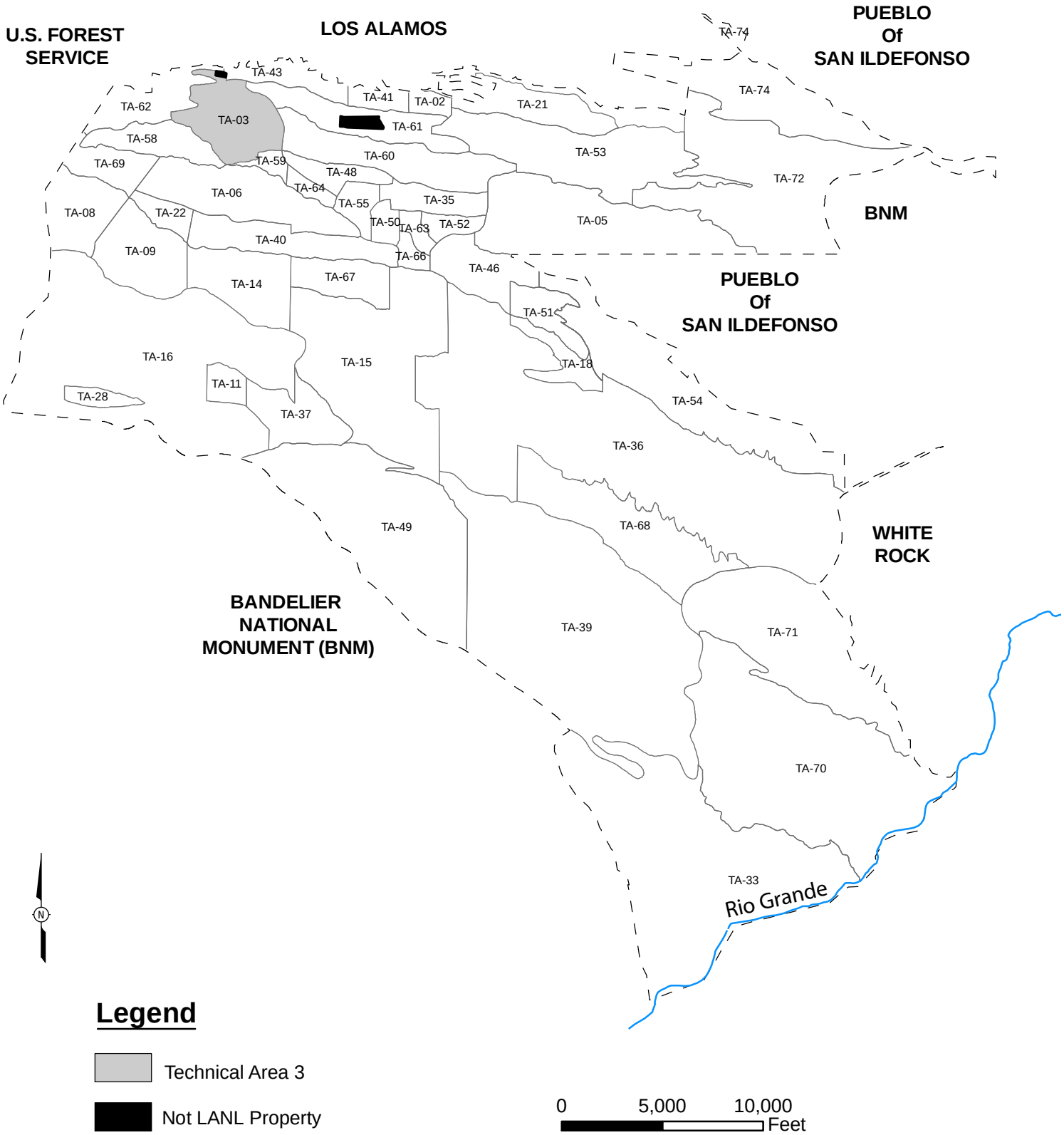


Figure 11:

Technical Area (TA) 3 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
This map was created for work processes associated with the Environmental &Remediation Support Services. All other uses for this map should be confirmed with LANL EP-WES staff.
Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; infrastructure Planning Office. 04 June 2008
Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008

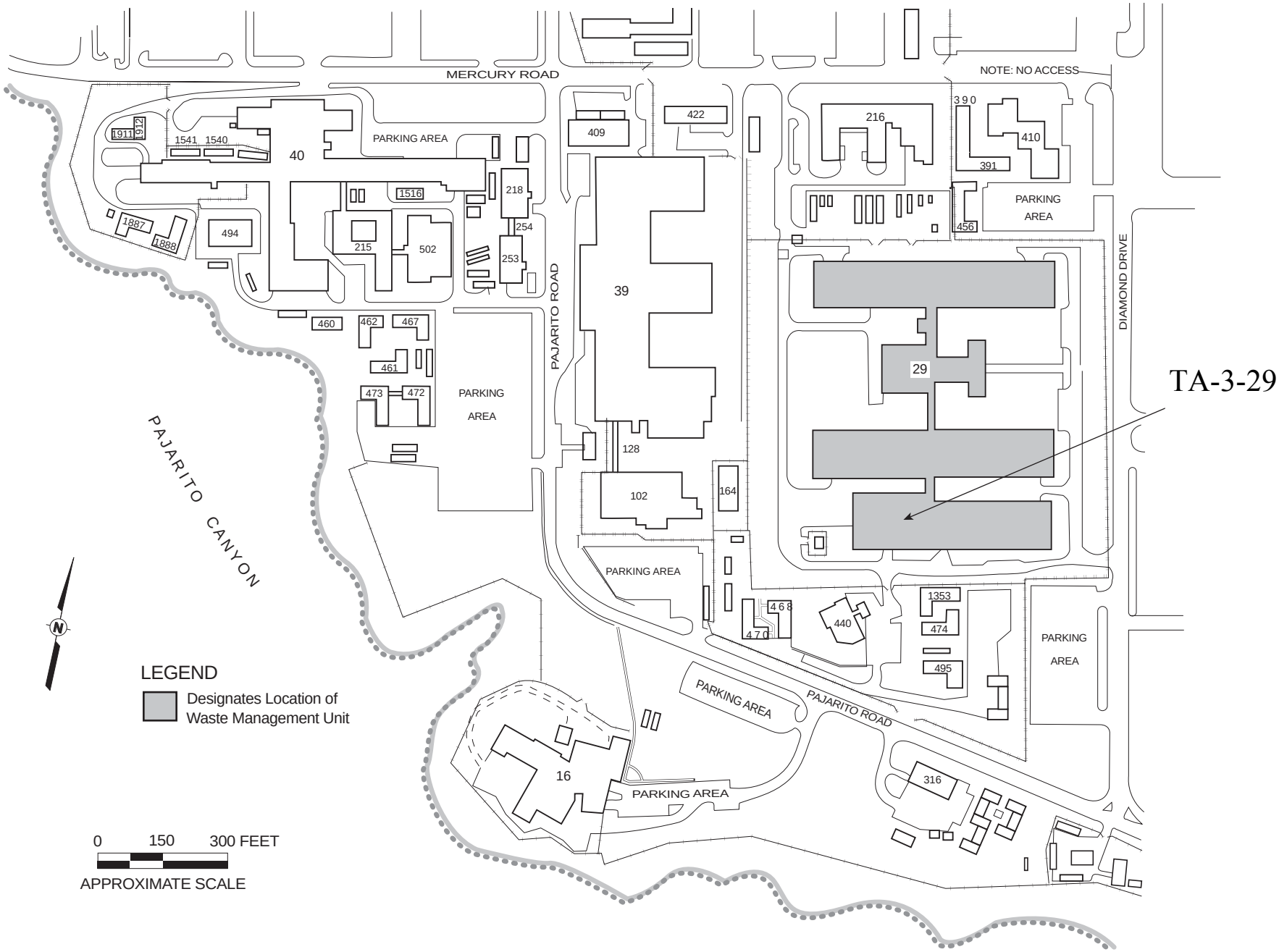


Figure 12:
Technical Area (TA) 3, Building 29, Location Map

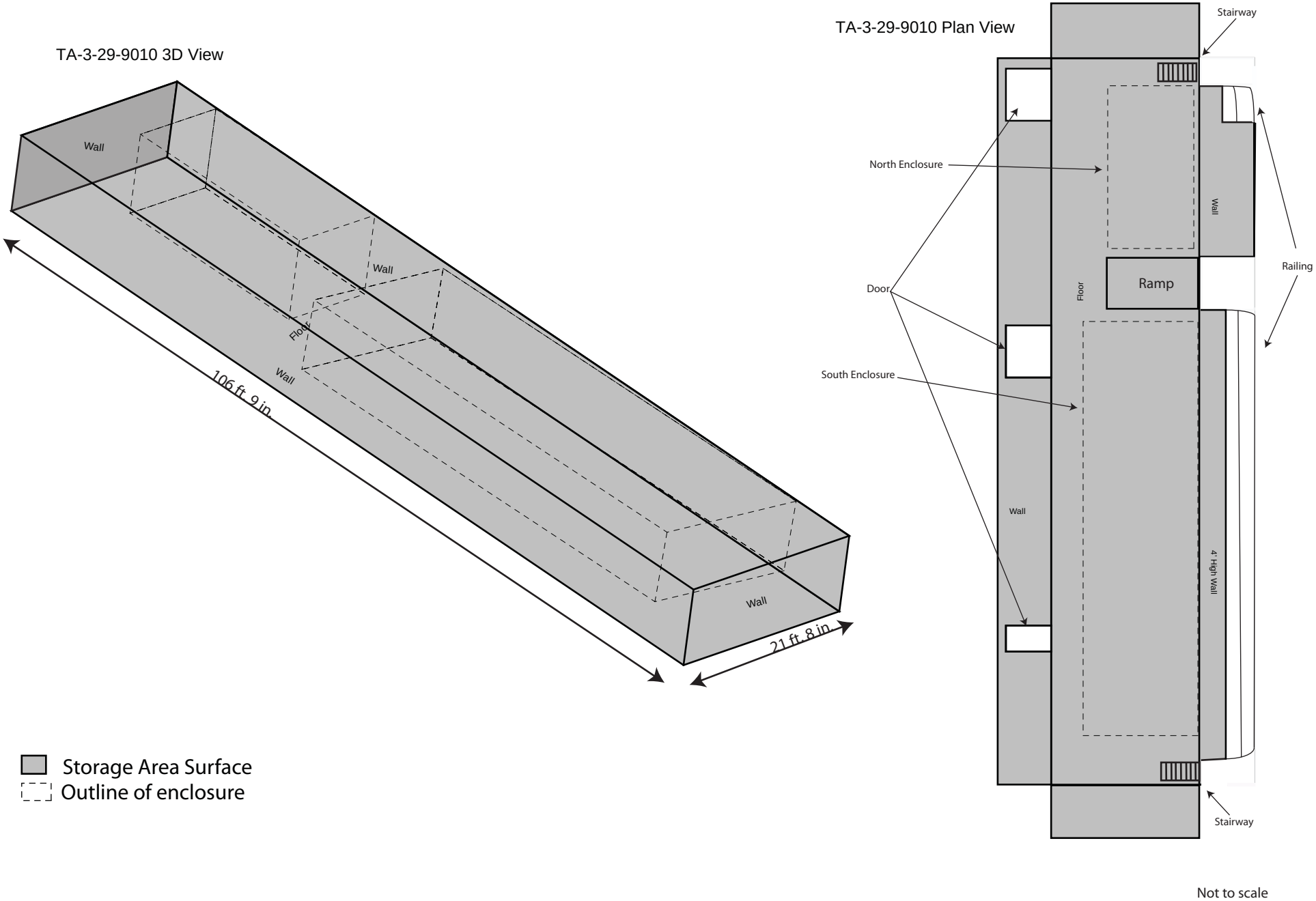


Figure 13:
Technical Area (TA) 3, Building 29, Room 9010

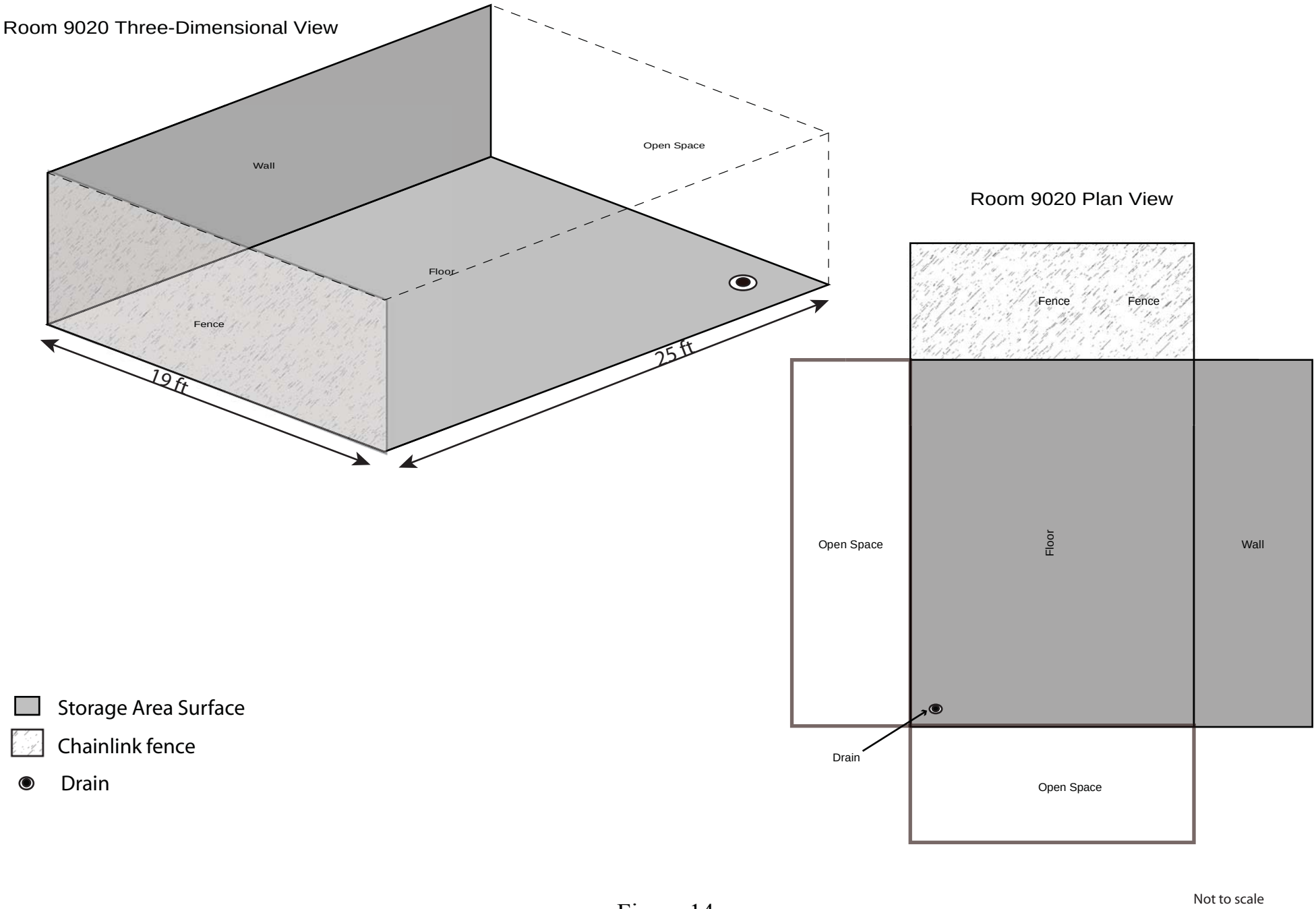


Figure 14:

Technical Area (TA) 3, Building 29, Portion of Room 9020

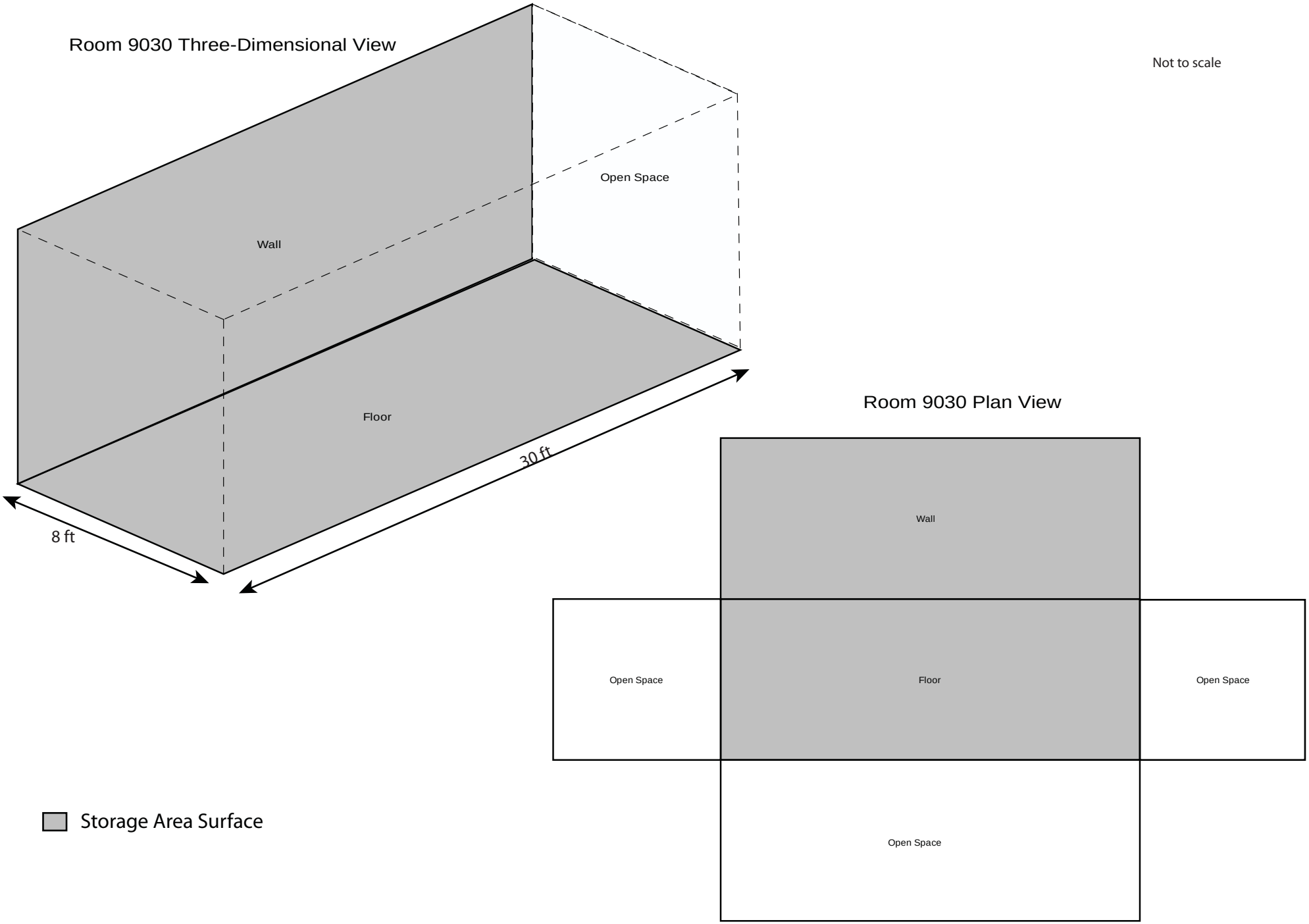


Figure 15:

Technical Area 3, Building 29, Portion of Room 9030

FIGURE 16 – RESERVED

FIGURE 17 – RESERVED

FIGURE 18 – RESERVED

FIGURE 19 – RESERVED

FIGURE 20 – RESERVED

FIGURE 21 – RESERVED

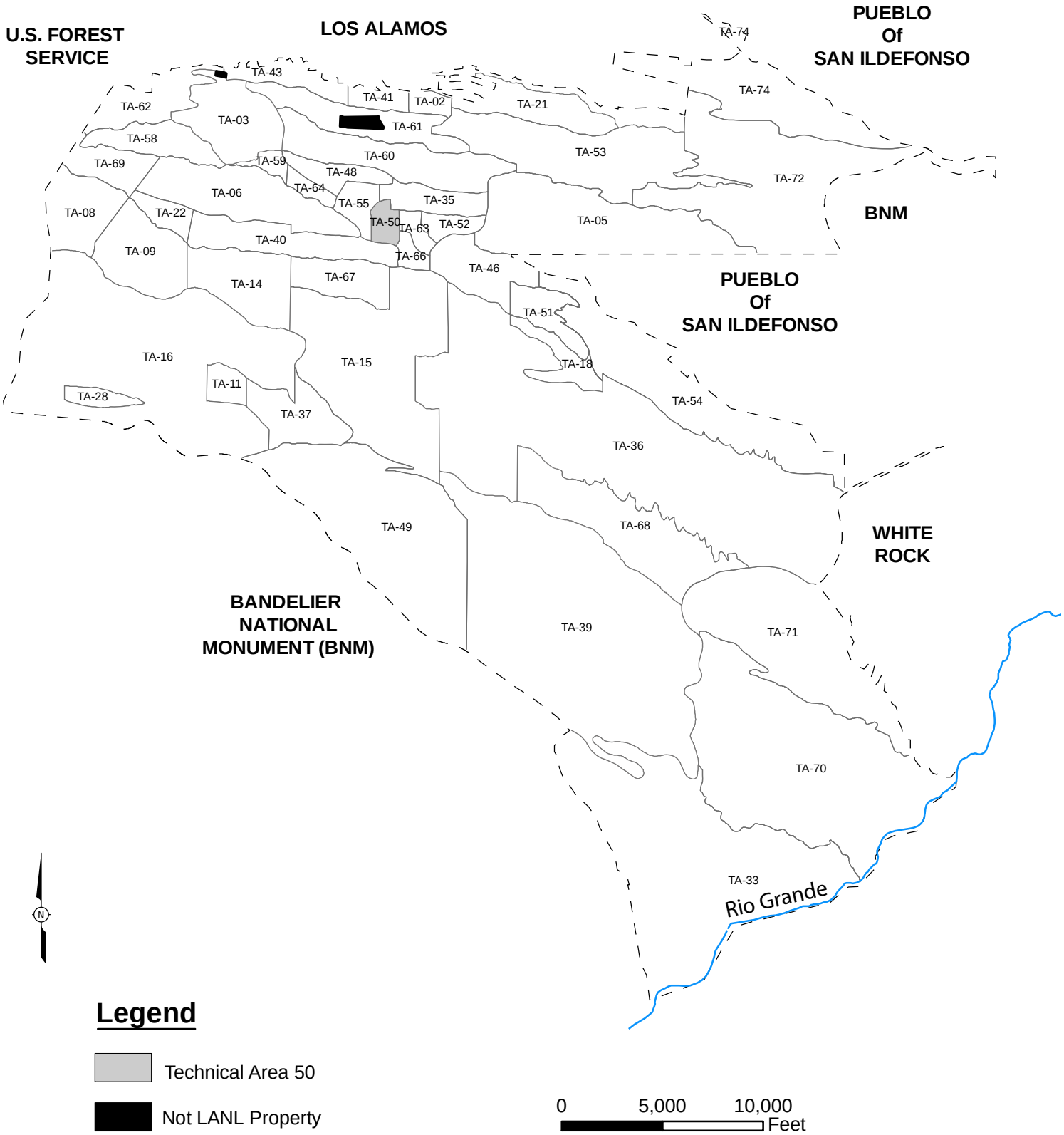
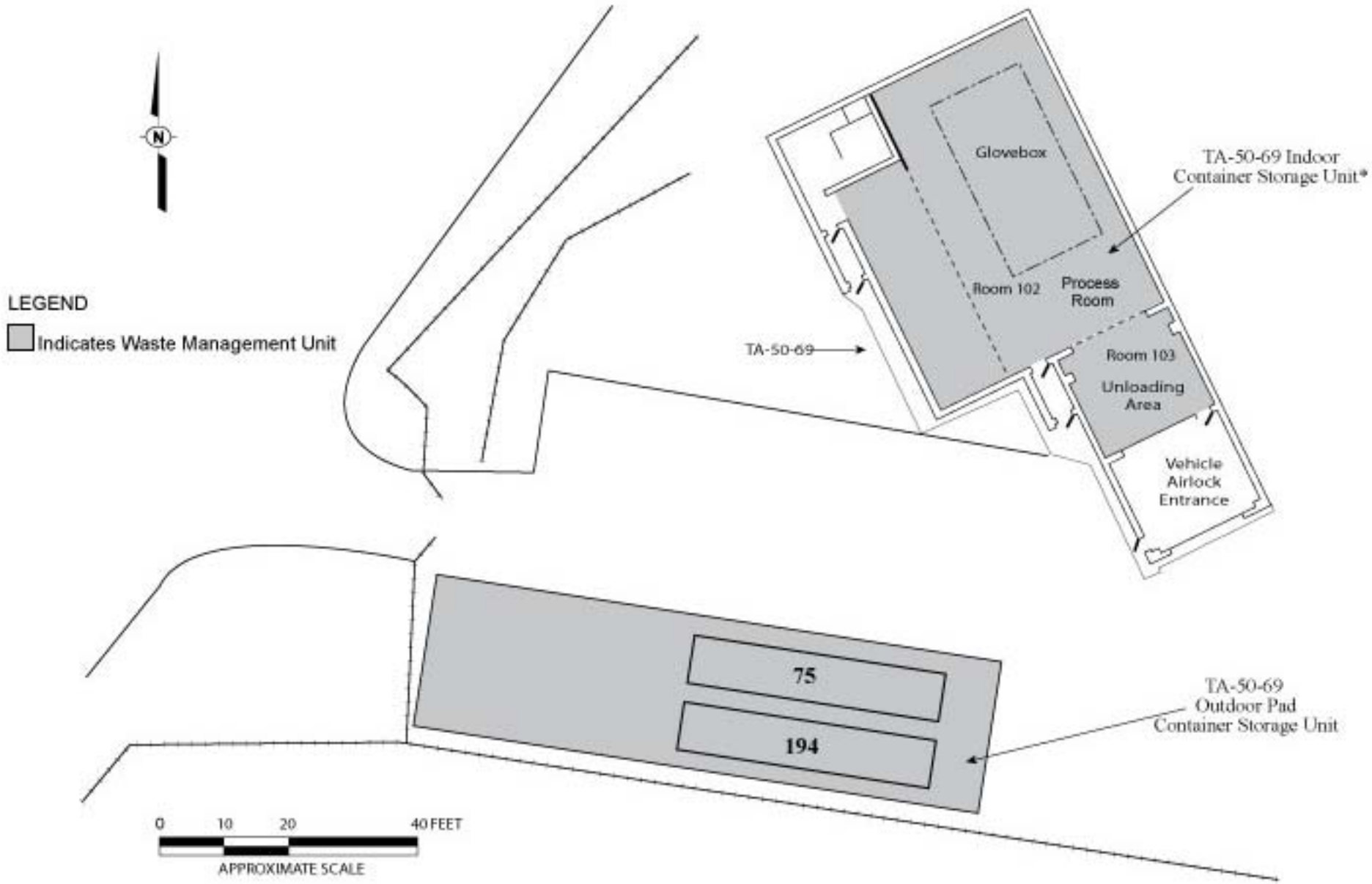


Figure 22:

Technical Area (TA) 50 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
This map was created for work processes associated with the Environmental &Remediation Support Services. All other uses for this map should be confirmed with LANL EP-WES staff.
Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; infrastructure Planning Office. 04 June 2008
Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008



*Note: Container Storage Area in Building 69 does not include mezzanine.

Figure 23
Technical Area (TA) 50, Building 69, Indoor and Outdoor Container Storage Units

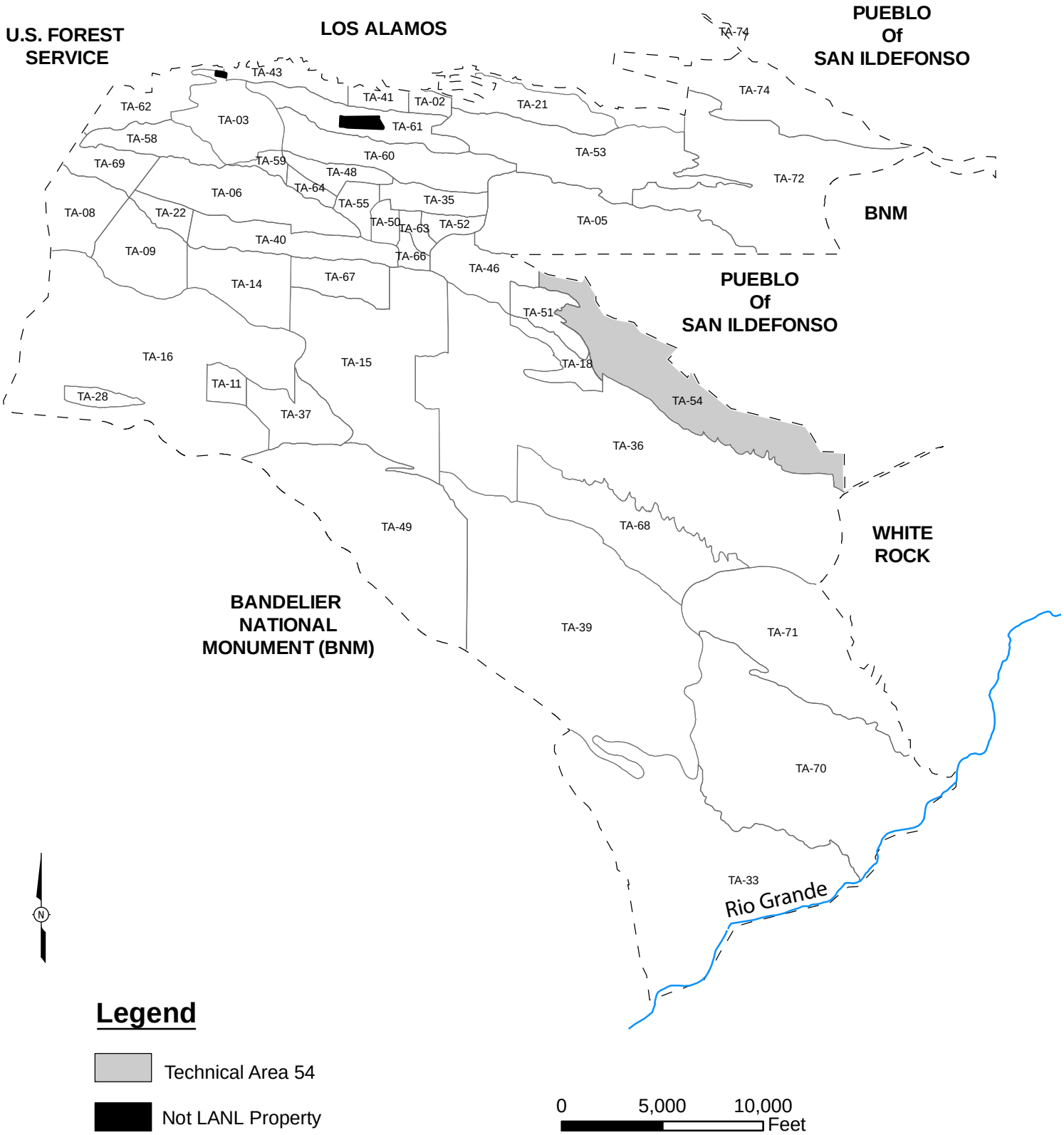


Figure 24:

Technical Area (TA) 54 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
This map was created for work processes associated with the Environmental &Remediation Support Services. All other uses for this map should be confirmed with LANL EP-WES staff.
Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; infrastructure Planning Office. 04 June 2008
Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008

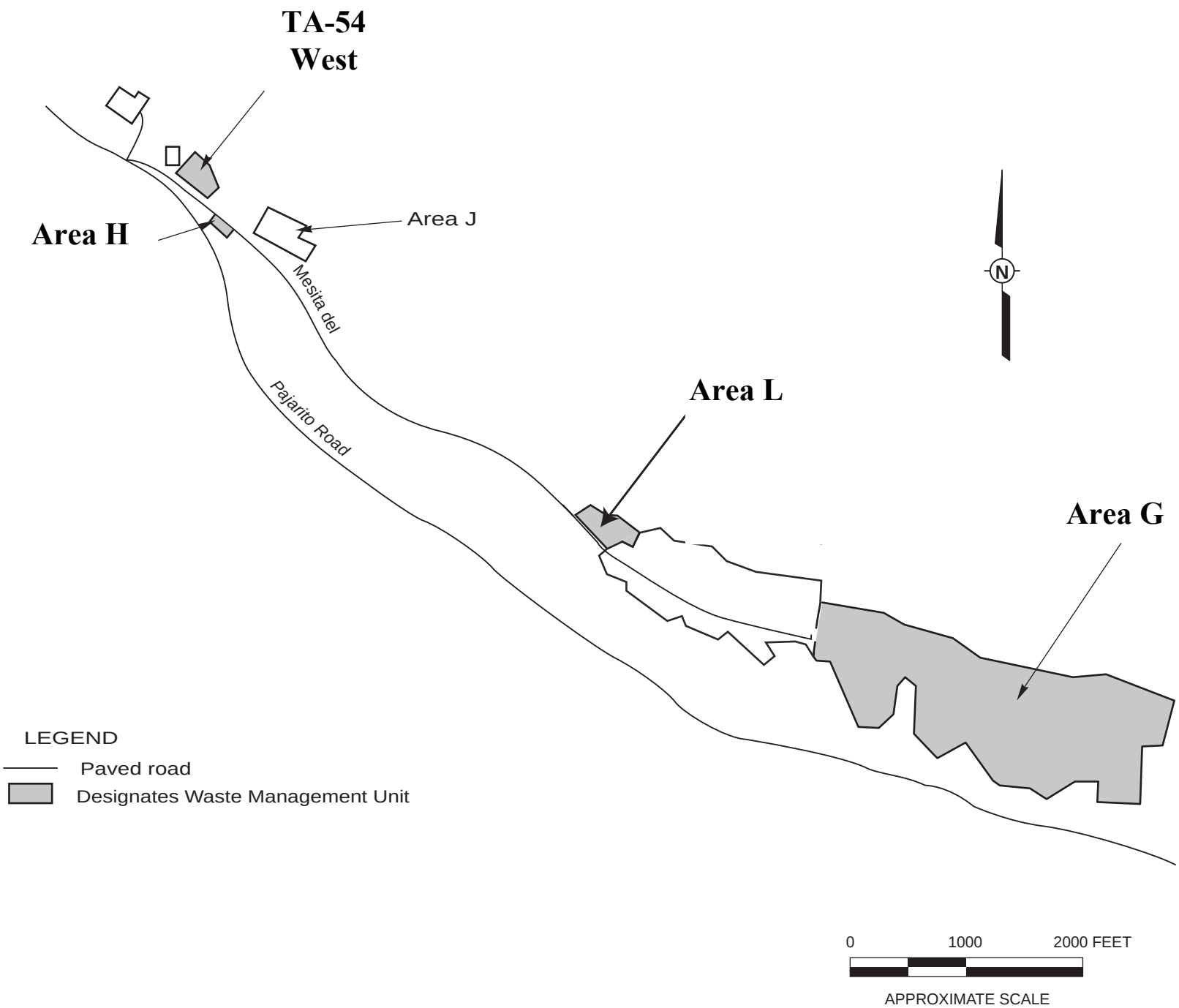


Figure 25
Technical Area (TA)-54, Areas G, H, L, and TA-54 West Location Map

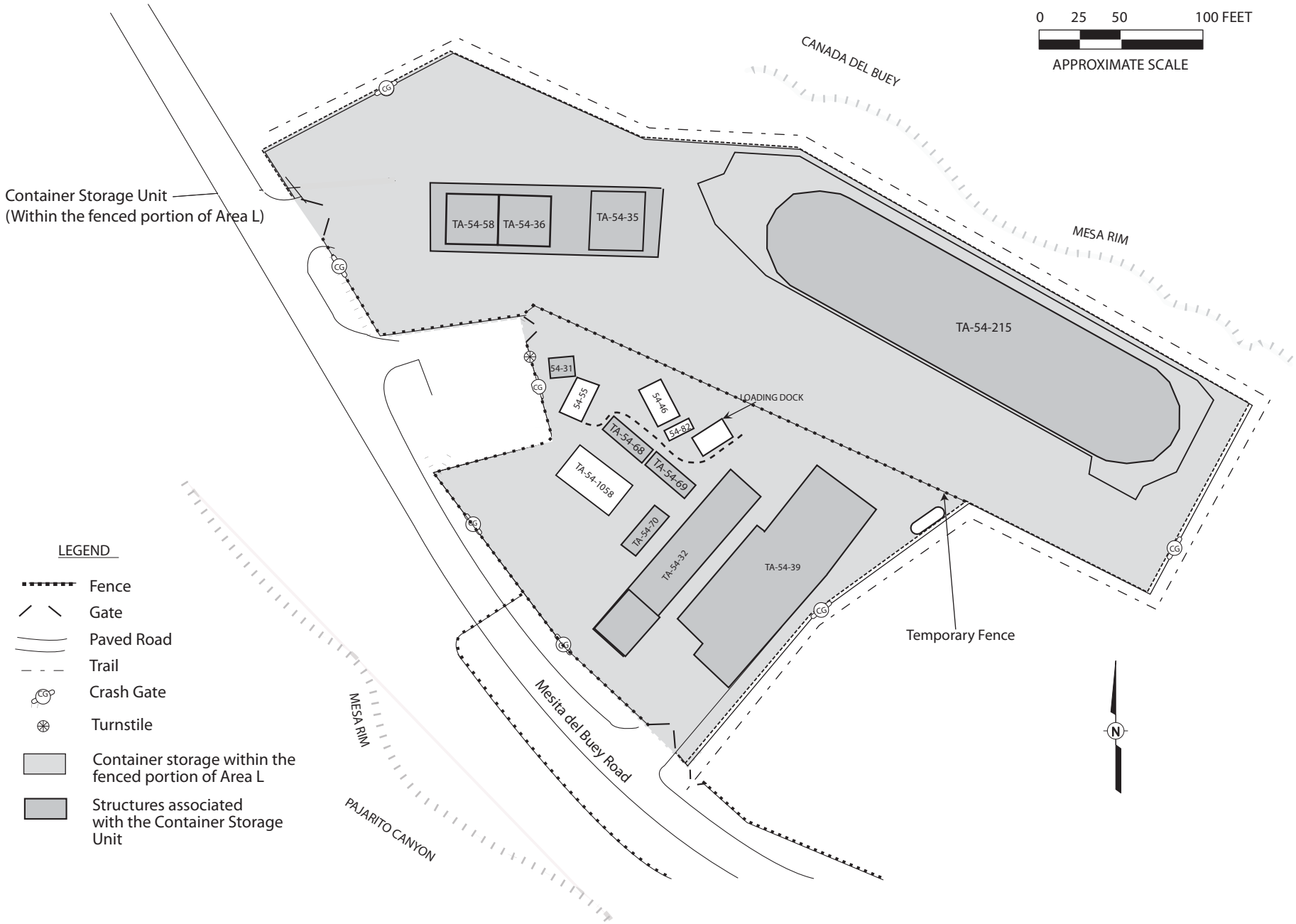


Figure 26: Technical Area 54, Area L, Container Storage Unit

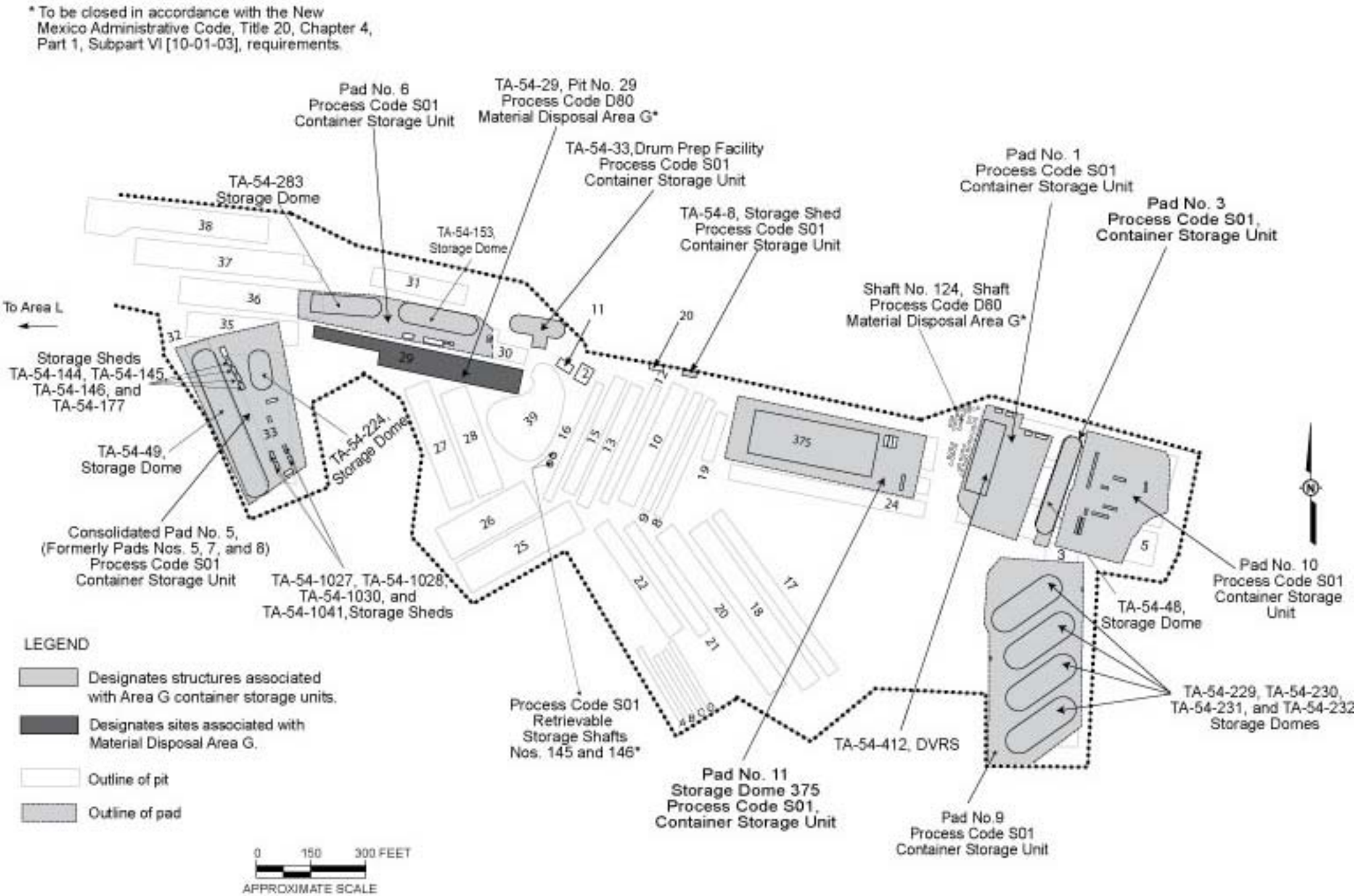
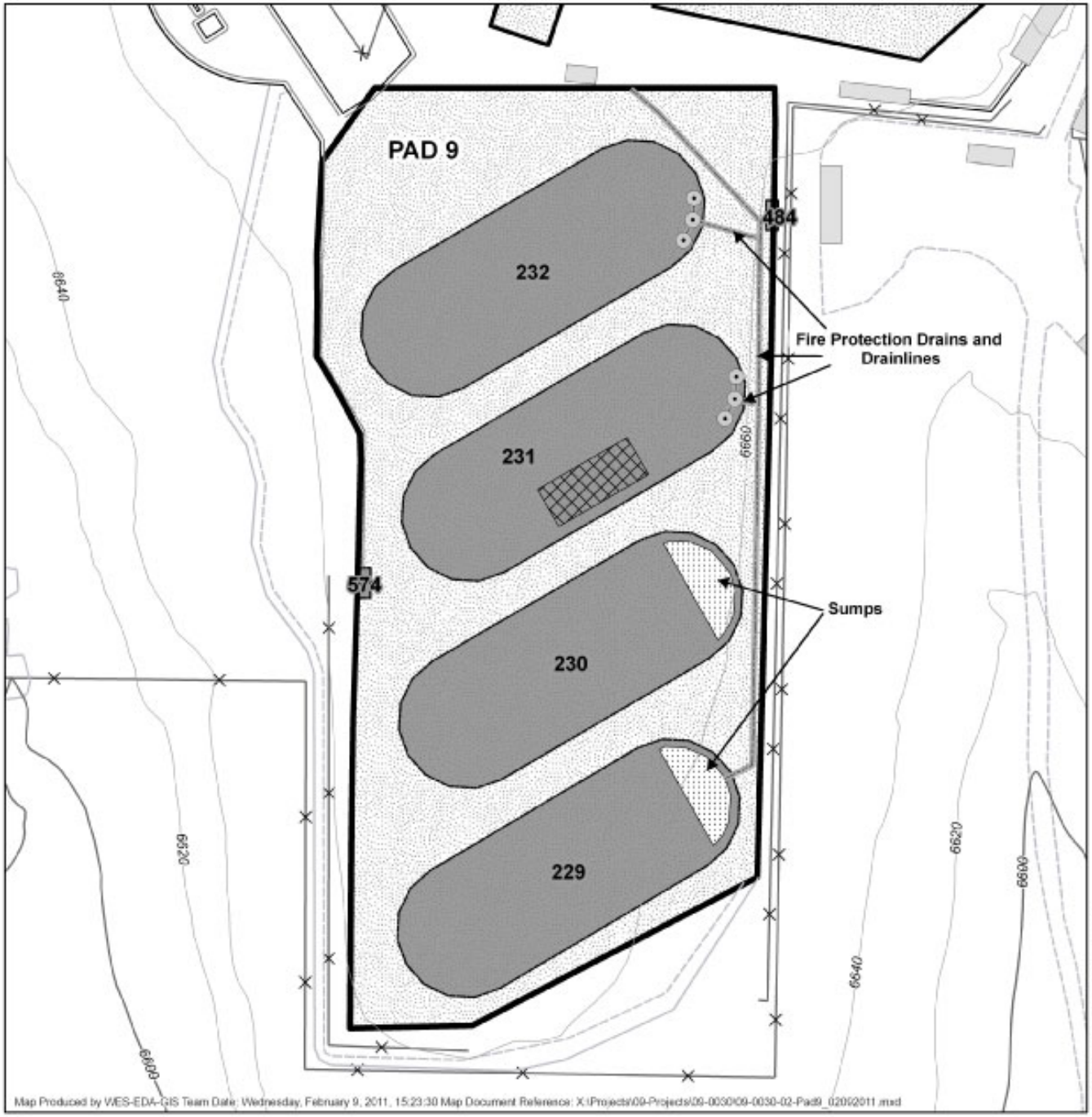


Figure 27: Technical Area 54, Area G, Container Storage Units



Map Produced by WES-EDA-GIS Team Date: Wednesday, February 9, 2011, 15:23:30 Map Document Reference: X:\Projects\09-Projects\09-0030\09-0030-02-Pad9_02092011.mxd

Legend

- Drains
- Sumps
- Perma-Con
- Buildings/Structures (not associated with the permitted unit)

RCRA Waste Management Units (RWMU) Category

- RWMU
- Structure
- Sample grid (cell size = 900 sqft)
- Fire Protection Drain Lines
- Contours, 100 ft
- Contours, 20 ft
- Roads, paved
- Roads, dirt
- Fences

N

1:1,000

Feet: 0 50 100 200

Meters: 0 15 30 60

State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL ENV Division, Water Quality & RCRA.

DataSources:

Path	Name	Date Accessed	Published Date
esdgi1=EFR KSL_water_pt\pulsefice PFCFVM	Fire Department Connection	9-Apr-09	16-Jan-09
X:\Projects\09-Projects\09-0030\Data\FP_Drains.shp	Drains	9-Apr-09	9-Apr-09
X:\Projects\09-Projects\09-0030\Data\FP_Sumps.shp	Sumps	9-Apr-09	9-Apr-09
esdgi1=EFR KSL_water_arc (selection of FP)	Fire Protection Drain Lines	9-Apr-09	16-Jan-09
X:\Projects\09-Projects\09-0030\Data\PermaCon_Poly.shp	Perma-Con	9-Apr-09	9-Apr-09
X:\Projects\09-Projects\09-0030\Data\shared_FWO\Fig2_c_3_Poly_Clip2	Sampling grid (cell size = 900 sqft)	11-Mar-09	17-Mar-09
V:\arc\FWO_landscape\KSL_landscape_arc20081015	KSL_landscape_arc20081015	10-Mar-09	15-Oct-08
esdgi1=EFR LANL_contour1981_100_arc	Contours, 100 ft	10-Mar-09	1981
esdgi1=EFR LANL_contour1981_20_arc	Contours, 20 ft	10-Mar-09	1981
V:\arc\FWO_roads\KSL_paved_rds_arc20081015	Roads, paved	10-Mar-09	15-Oct-08
V:\arc\FWO_roads\KSL_dirt_rds_arc20081015	Roads, dirt	10-Mar-09	15-Oct-08
V:\arc\FWO_fences\KSL_fences_arc20081015	Fences	10-Mar-09	15-Oct-08
X:\Projects\09-Projects\09-0030\Data\TA54\Pad9_ed2008\Ortho	Pad 9 Boundary	10-Mar-09	15-Oct-08
V:\arc\FWO_structures\KSL_structures_ply20081015	Buildings/Structures	10-Mar-09	04-Aug-05
V:\arc\SWRC_hazardouswaste\SWRC_rcra_rwmu_ply	RCRA waste management units	10-Mar-09	03-Apr-06

Figure 28: Technical Area (TA)-54 Area G, Pad 9, (TWISP Domes 229, 230, 231 & 232)

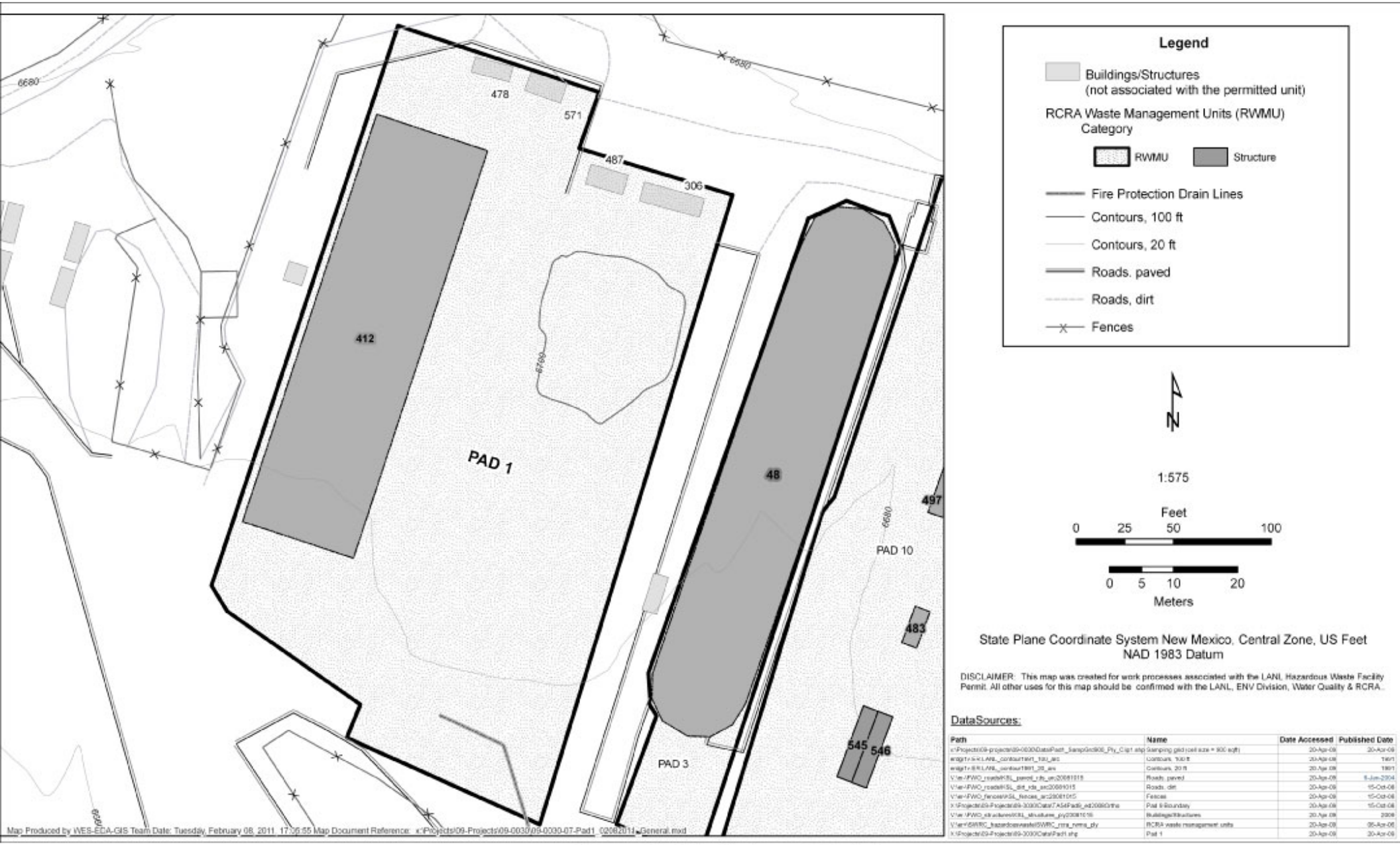
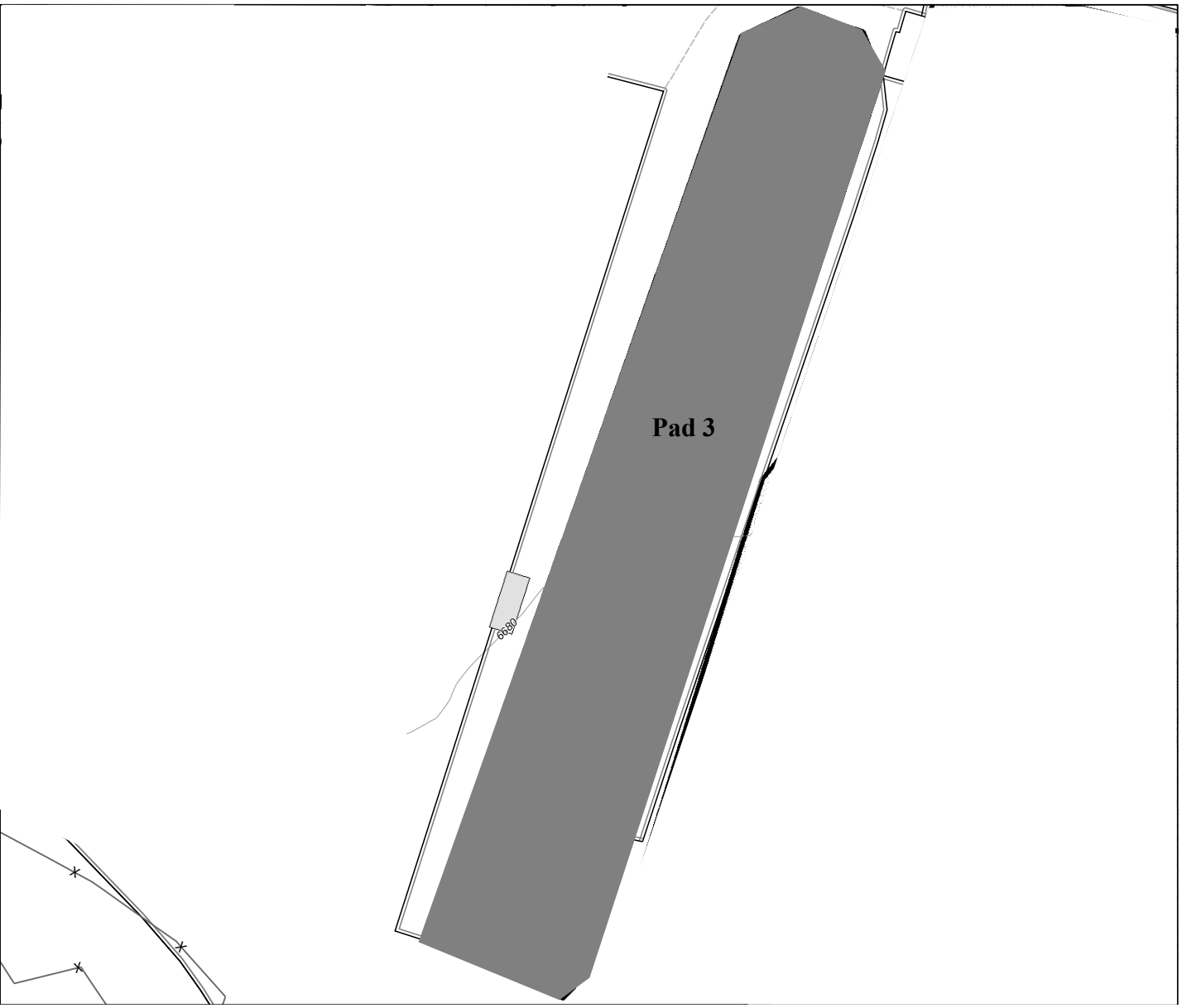


Figure 29: TA-54, Area G, Pad 1



Legend

Buildings/Structures
(not associated with the permitted unit)

RCRA Waste Management Units (RWMU)
Category

RWMU

Contours, 100 ft

Contours, 20 ft

Roads. paved

Roads, dirt

Fences

N

1:475

Feet
0 25 50 100

0 3.5 7 14
Meters

State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA..

Figure 30:
Technical Area (TA)-54, Area G, Pad 3

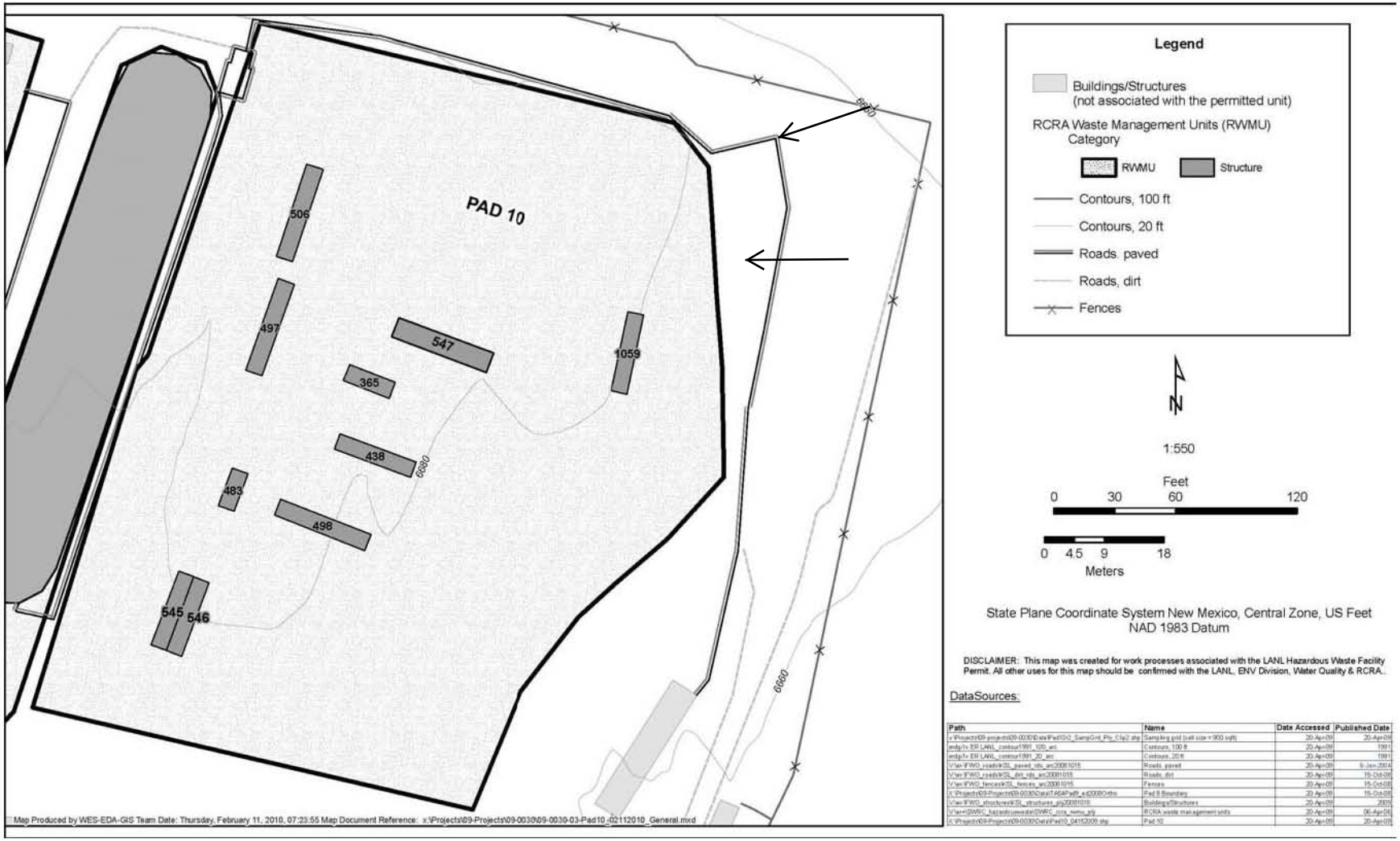
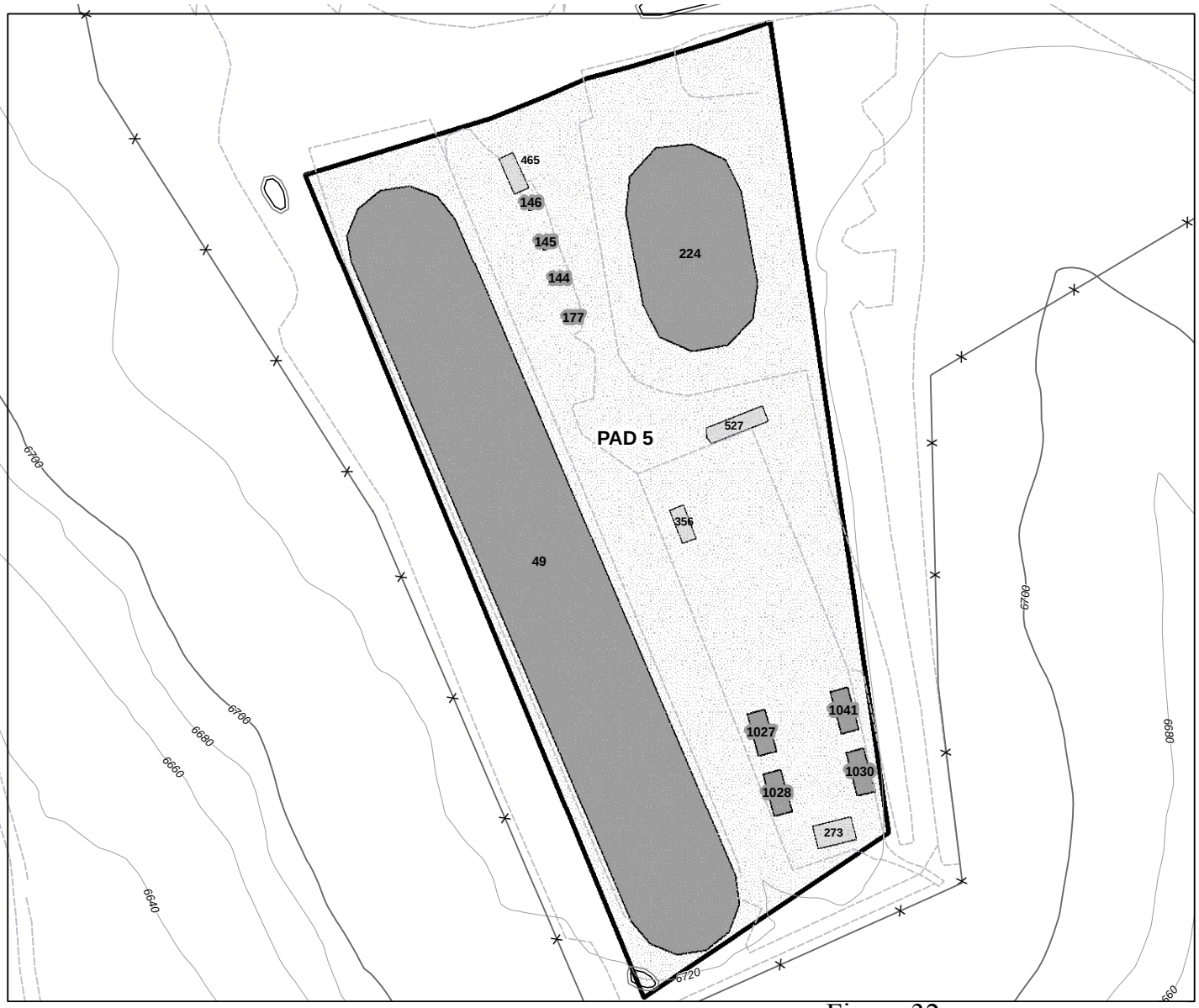


Figure 31: TA-54, Area G, Pad 10



Legend

Buildings/Structures
(not associated with the permitted unit)

RCRA Waste Management Units (RWMU) Category

RWMU

Structure

Contours, 100 ft

Contours, 20 ft

Roads. paved

Roads, dirt

Fences

N

1:750

Feet

0 37.5 75 150

0 12.5 25 50

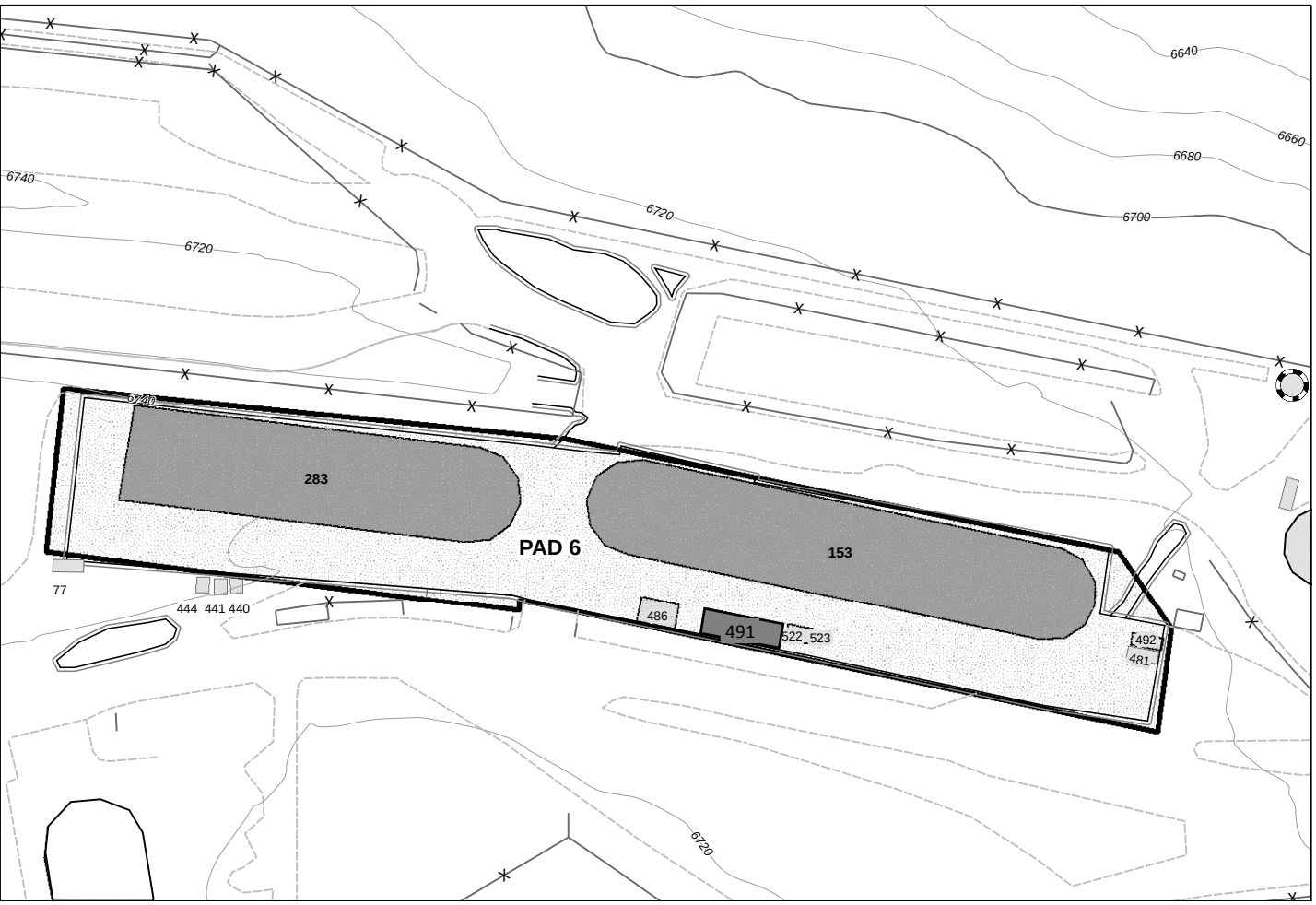
Meters

State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA..

Figure 32

Technical Area (TA)-54, Area G, Pad 5 (Domes 49 and 224; Storage Sheds 144, 145, 146, 177, 1027,1028, 1030, and 1041)



Legend

Buildings/Structures
(not associated with the permitted unit)

RCRA Waste Management Units (RWMU)
Category

RWMU

Structure

Sediment Trap

Contours, 100 ft

Contours, 20 ft

Roads. paved

Roads, dirt

Fences

N

1:975

Feet
0 40 80 160

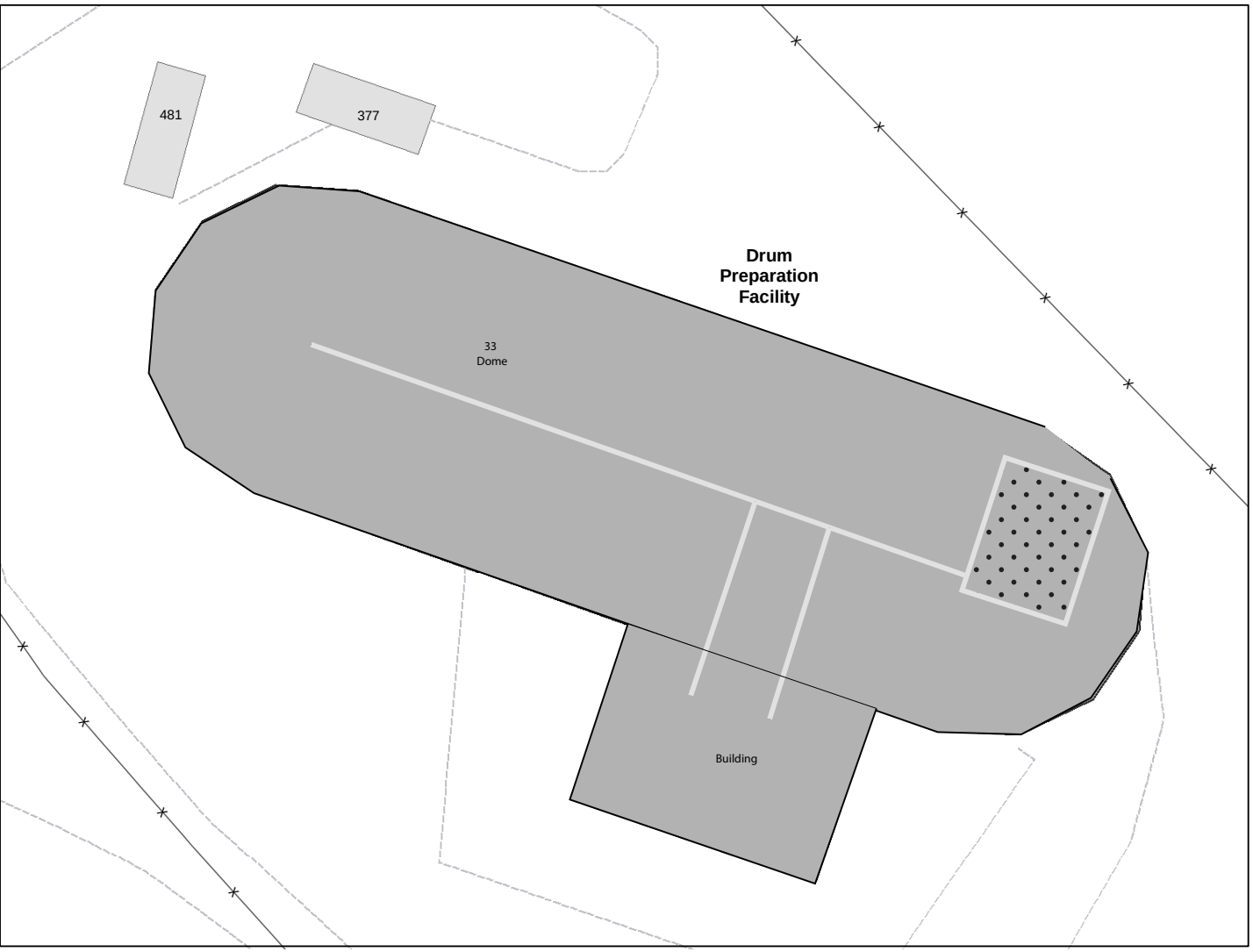
0 12.5 25 50
Meters

State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA..

Figure 33
Technical Area (TA)-54, Area G, Pad 6, (Domes 153 & 283)

Figure 34
Technical Area (TA)-54, Area G, Storage Shed 8



Legend

Sumps*

Buildings/Structures
(not associated with the permitted unit)

RCRA Waste Management Units (RWMU)
Category

RWMU

Structure

Drain Lines*

Contours, 100 ft

Contours, 20 ft

Roads. paved

Roads, dirt

Fences

** Location and size are approximate.*

N

1:230

Feet

0 15 30 60

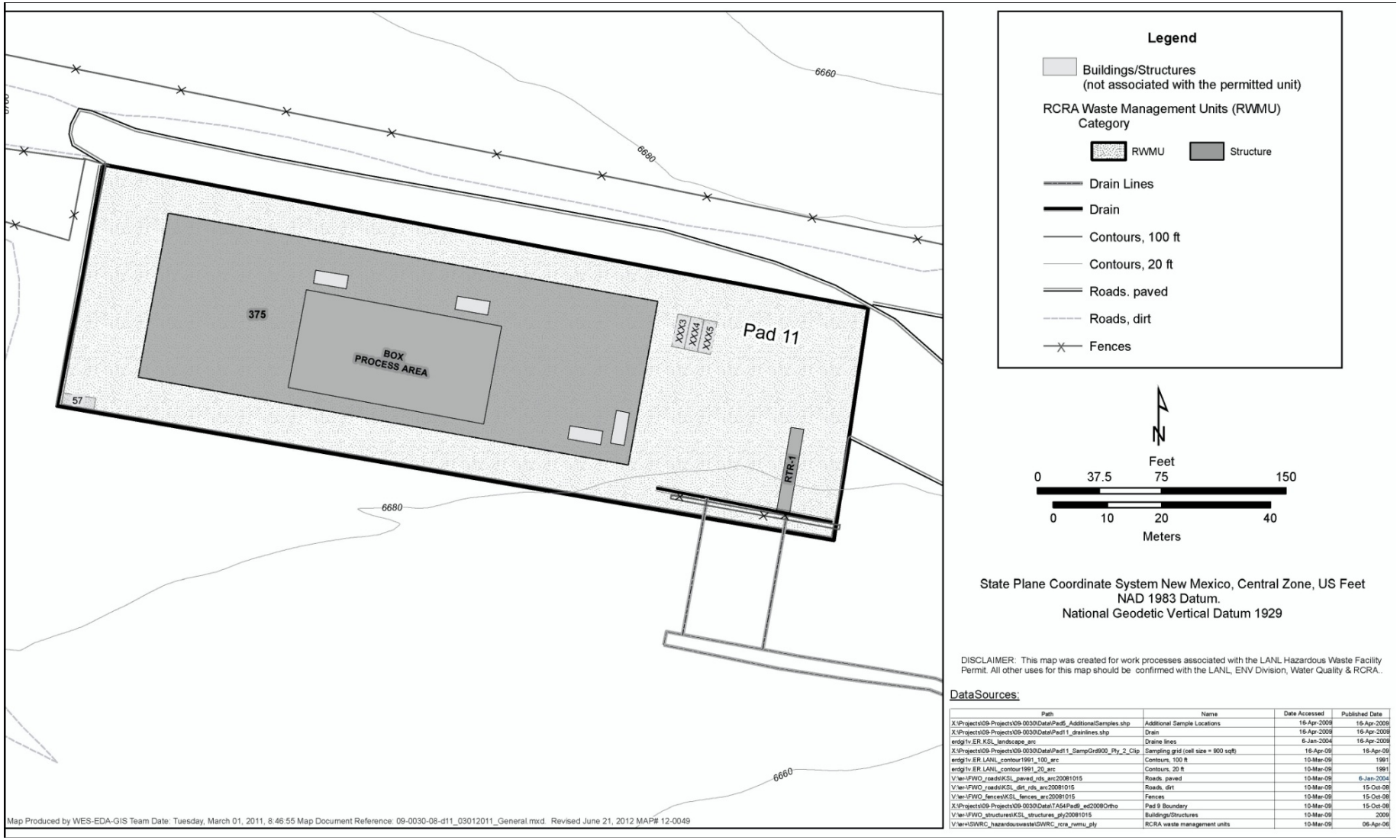
0 4.5 9 18

Meters

State Plane Coordinate System New Mexico, Central Zone, US Feet
NAD 1983 Datum

DISCLAIMER: This map was created for work processes associated with the LANL Hazardous Waste Facility Permit. All other uses for this map should be confirmed with the LANL, ENV Division, Water Quality & RCRA..

Figure 35
Technical Area (TA)-54, Area G, Building 33



Path	Name	Date Accessed	Published Date
X:\Projects\09-Projects\09-0030\Data\Pad5_AdditionalSamples.shp	Additional Sample Locations	16-Apr-2009	16-Apr-2009
X:\Projects\09-Projects\09-0030\Data\Pad11_drainlines.shp	Drain	16-Apr-2009	16-Apr-2009
erdgi1v.ER.KSL_landscape_arc	Draine lines	6-Jan-2004	16-Apr-2009
X:\Projects\09-Projects\09-0030\Data\Pad11_SampGrd900_Ply_2_Clip	Sampling grid (cell size = 900 sqft)	16-Apr-09	16-Apr-09
erdgi1v.ER.LANL_contour1991_100_arc	Contours, 100 ft	10-Mar-09	1991
erdgi1v.ER.LANL_contour1991_20_arc	Contours, 20 ft	10-Mar-09	1991
V:\er-\FWO_roads\KSL_paved_rds_arc20081015	Roads. paved	10-Mar-09	6-Jan-2004
V:\er-\FWO_roads\KSL_dirt_rds_arc20081015	Roads, dirt	10-Mar-09	15-Oct-08
V:\er-\FWO_fences\KSL_fences_arc20081015	Fences	10-Mar-09	15-Oct-08
X:\Projects\09-Projects\09-0030\Data\TA54Pad9_ed2008Ortho	Pad 9 Boundary	10-Mar-09	15-Oct-08
V:\er-\FWO_structures\KSL_structures_ply20081015	Buildings/Structures	10-Mar-09	2009
V:\er-\GWRC_hazardouswaste\GWRC_rcra_rwmu_ply	RCRA waste management units	10-Mar-09	06-Apr-06

Figure 36: TA-54, Area G, Pad 11

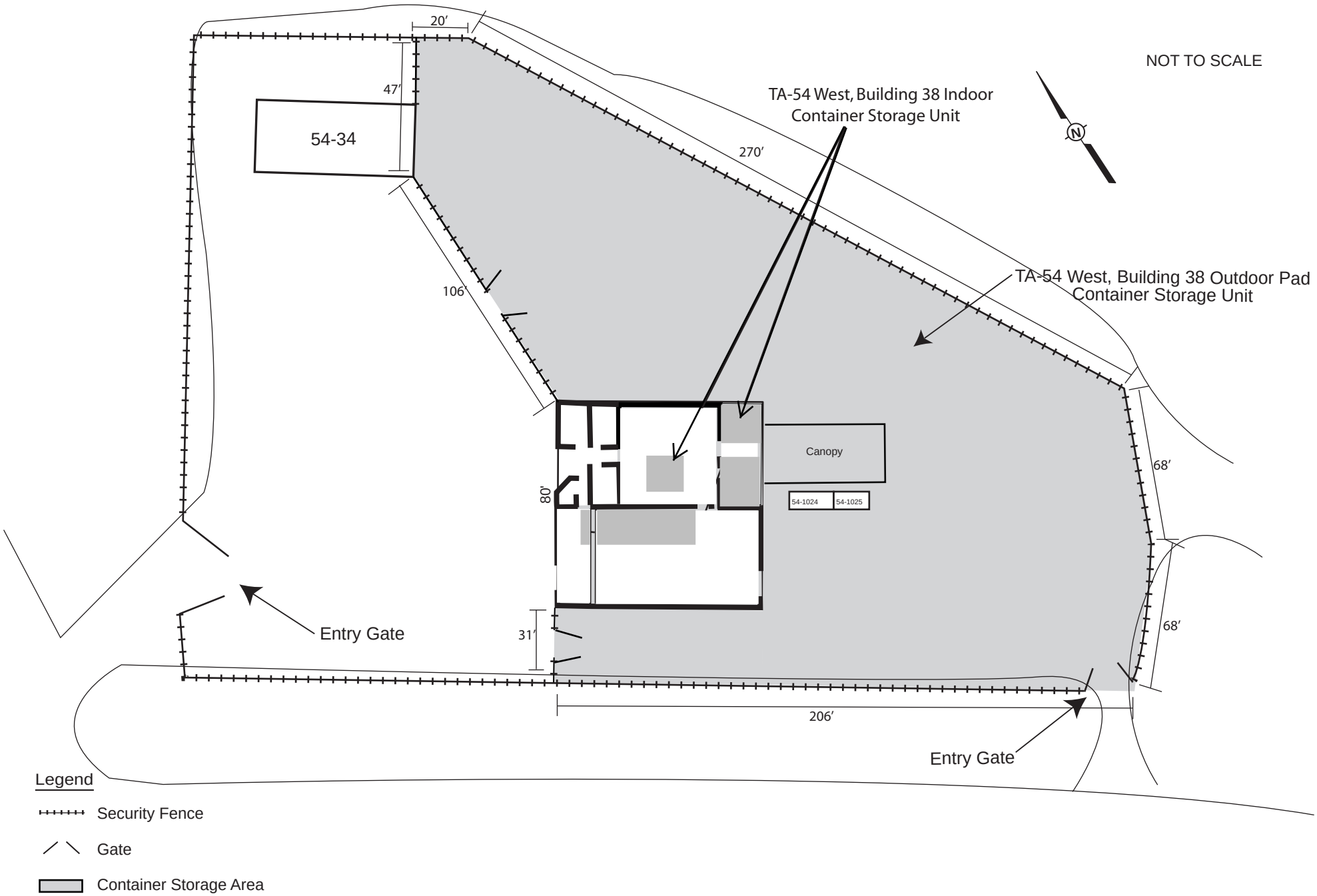


Figure 37
Technical Area (TA) 54 West, Building 38 Indoor (High Bay and Low Bay) and Outdoor Pad

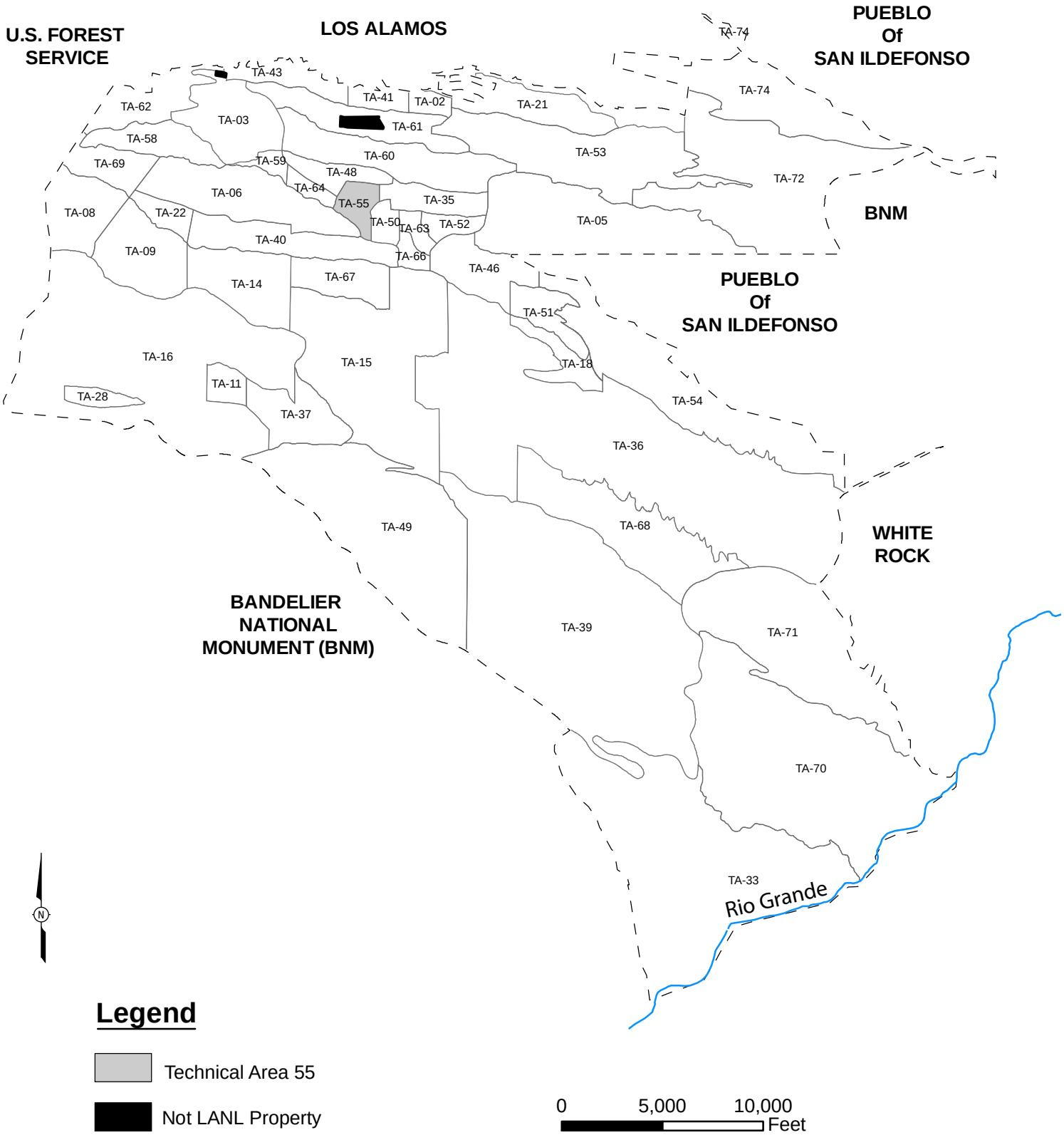


Figure 38:

Technical Area (TA) 55 Location Map

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
This map was created for work processes associated with the Environmental &Remediation Support Services. All other uses for this map should be confirmed with LANL EP-WES staff.
Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; infrastructure Planning Office. 04 June 2008
Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008

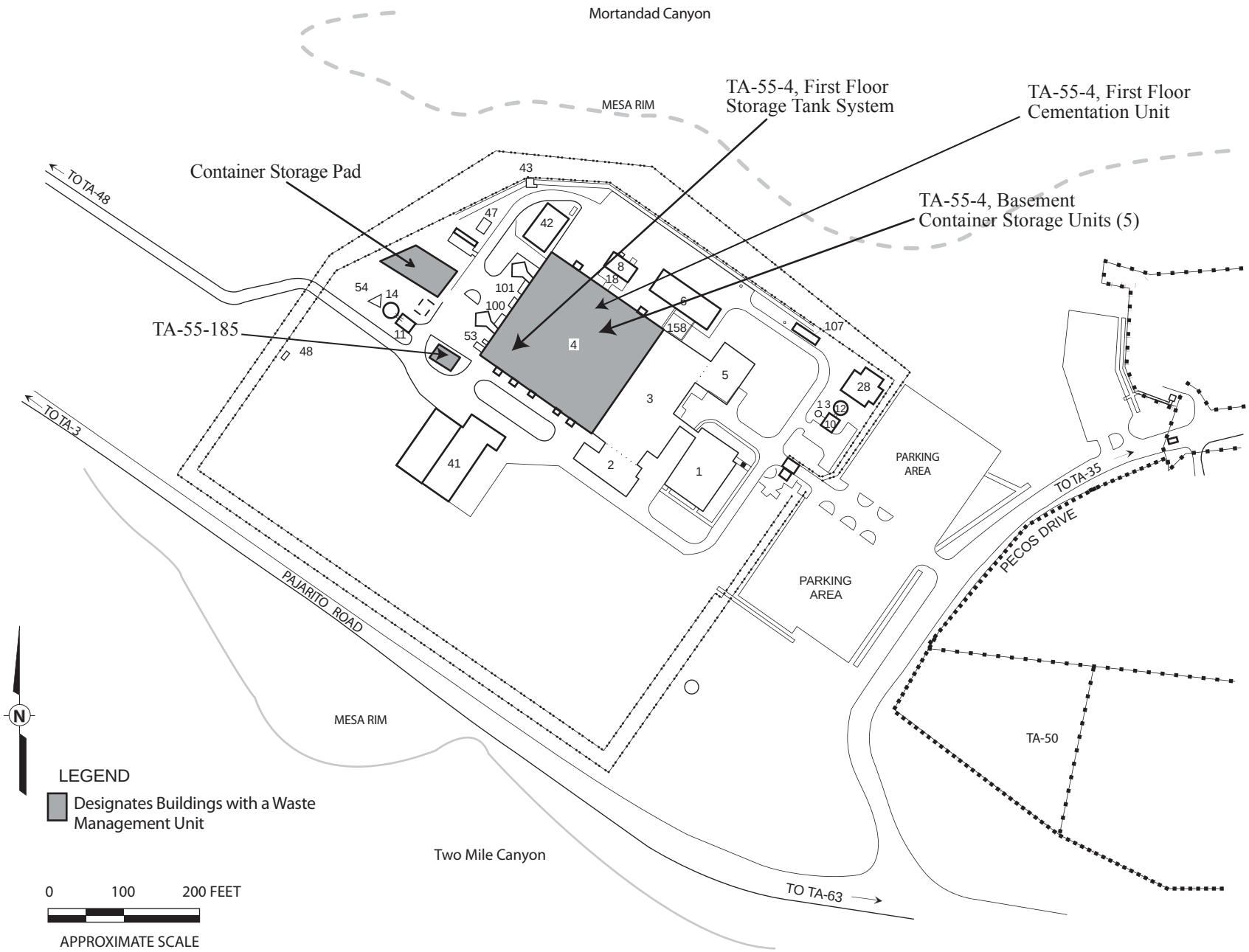


Figure 39
Technical Area (TA) 55, Building 4 Location Map

(FIGURE 40 - TA-55, BUILDING 4, ROOM B40)

UCNI

LOS ALAMOS NATIONAL LABORATORY

THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY ACT

(FIGURE 41 - TA-55, BUILDING 4, ROOM K13)

UCNI

LOS ALAMOS NATIONAL LABORATORY

THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY ACT

(FIGURE 42 - TA-55, BUILDING 4, ROOM B05)

UCNI

LOS ALAMOS NATIONAL LABORATORY

THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY ACT

(FIGURE 43 - TA-55, BUILDING 4, ROOM B45)

UCNI

LOS ALAMOS NATIONAL LABORATORY

THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY ACT

(FIGURE 44 - TA-55, BUILDING 4, VAULT)

UCNI

LOS ALAMOS NATIONAL LABORATORY

THIS FIGURE CONTAINS UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION (UCNI) AS DEFINED BY SECTION 148 OF THE ATOMIC ENERGY ACT

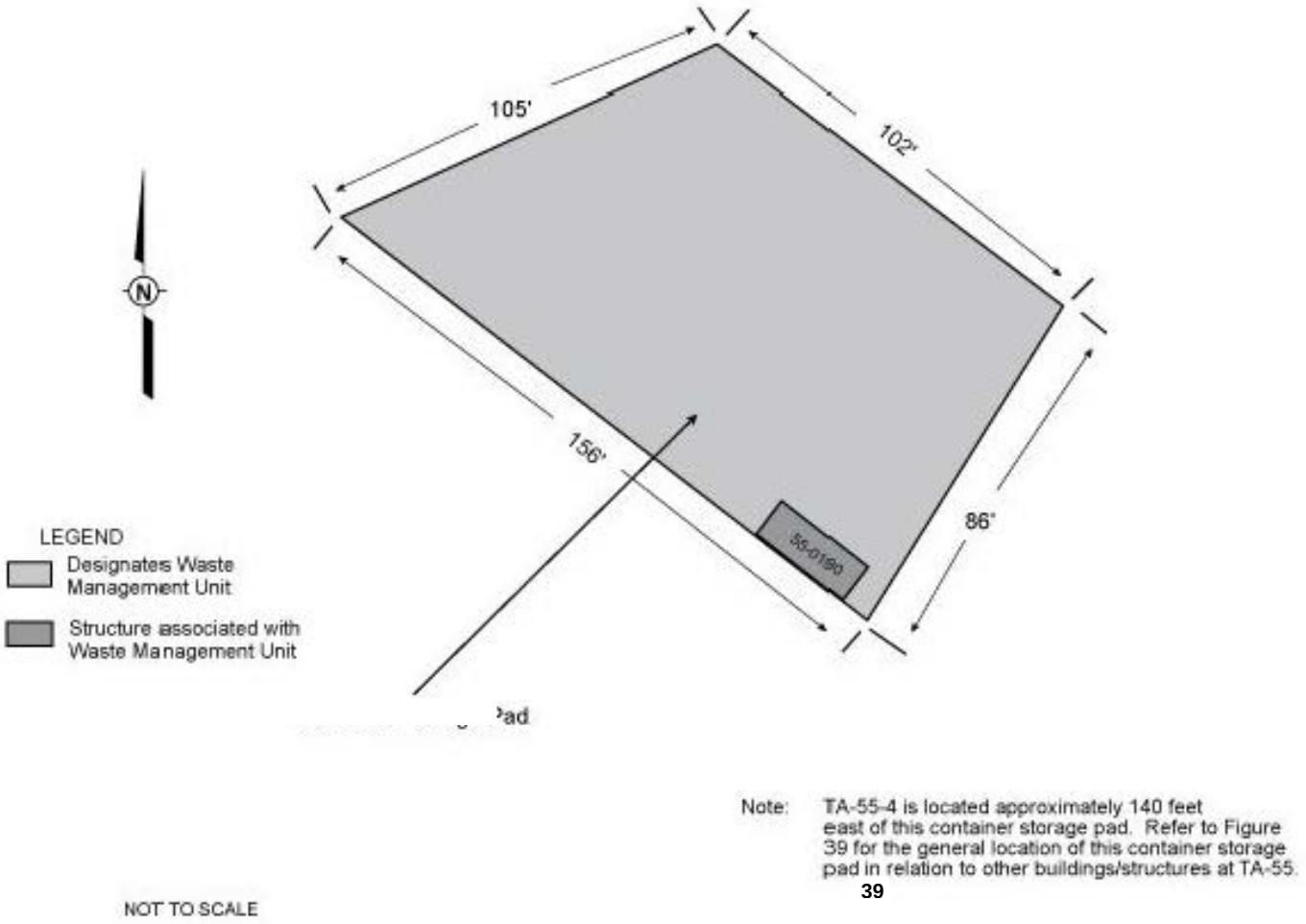
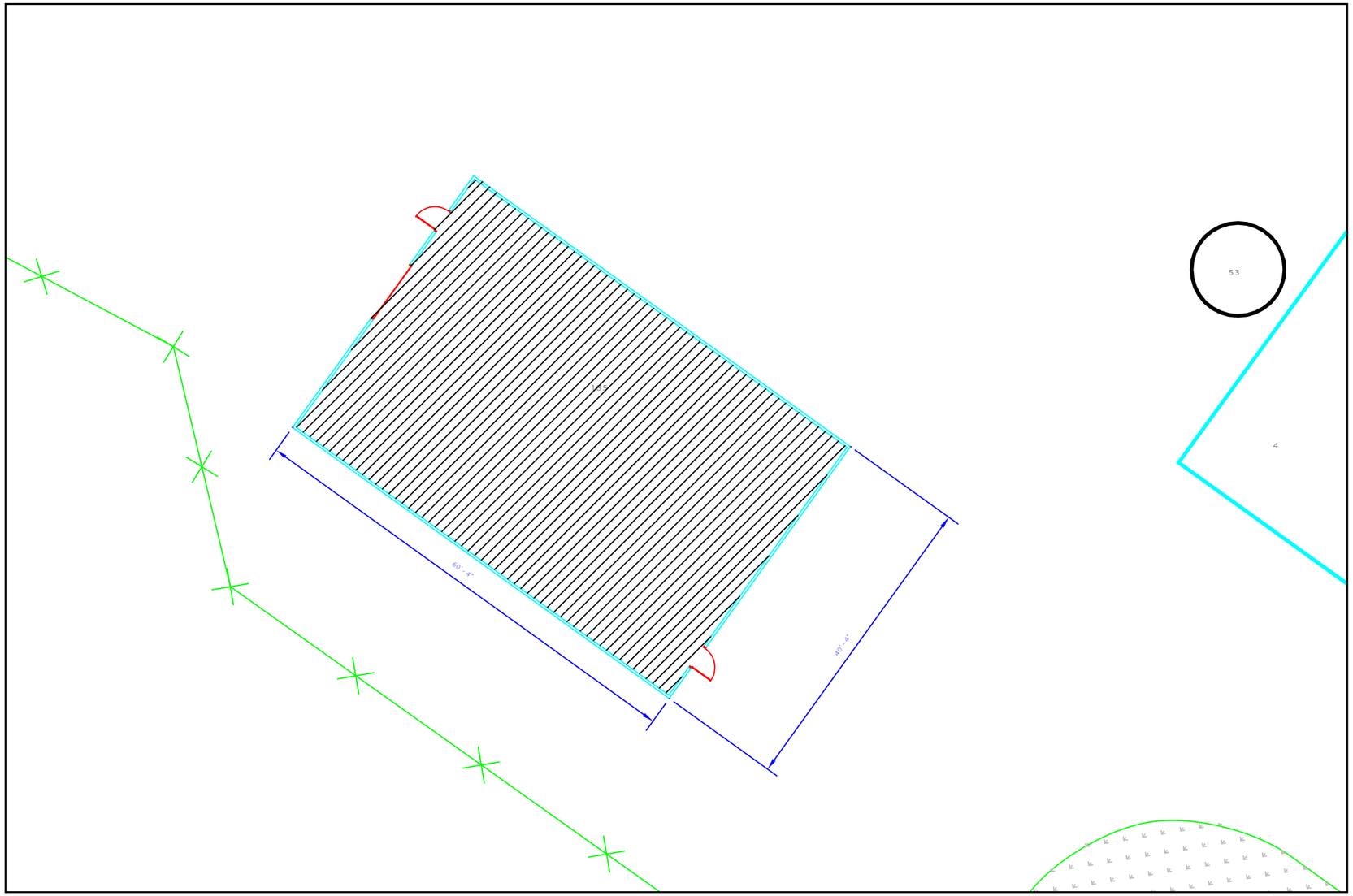


Figure 45
Technical Area (TA)-55, Building 4, Outdoor Container Storage Pad



LEGEND

CONTAINER STORAGE UNIT

CHAIN LINK SECURITY FENCE

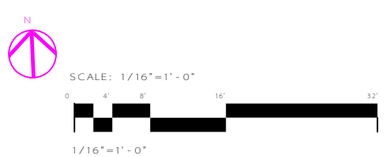
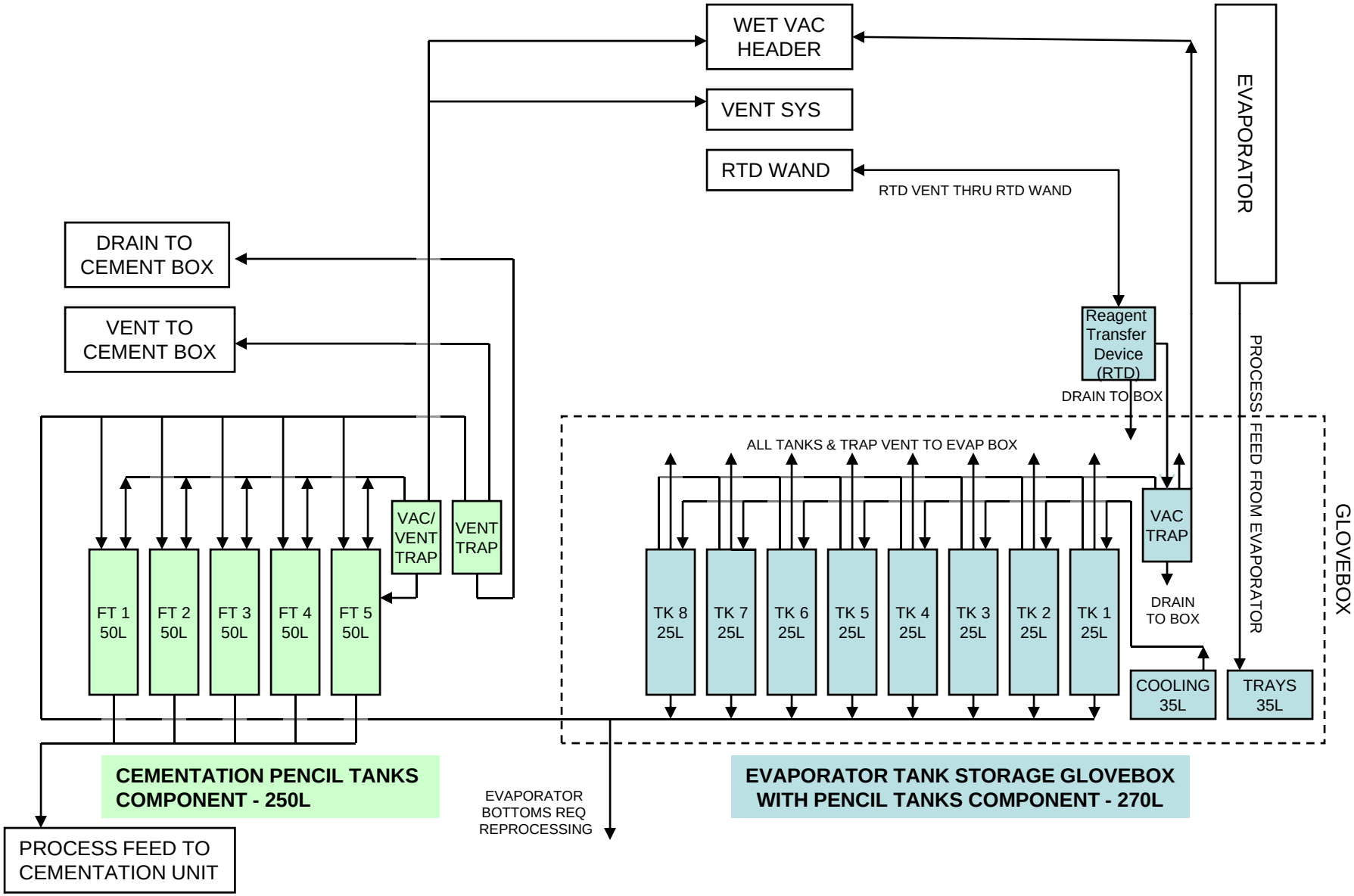


Figure 46
Technical Area (TA)-55, Building 185

Figure 47: TA-55, Building 4, Room 401, Storage Tank System Process Flow Diagram



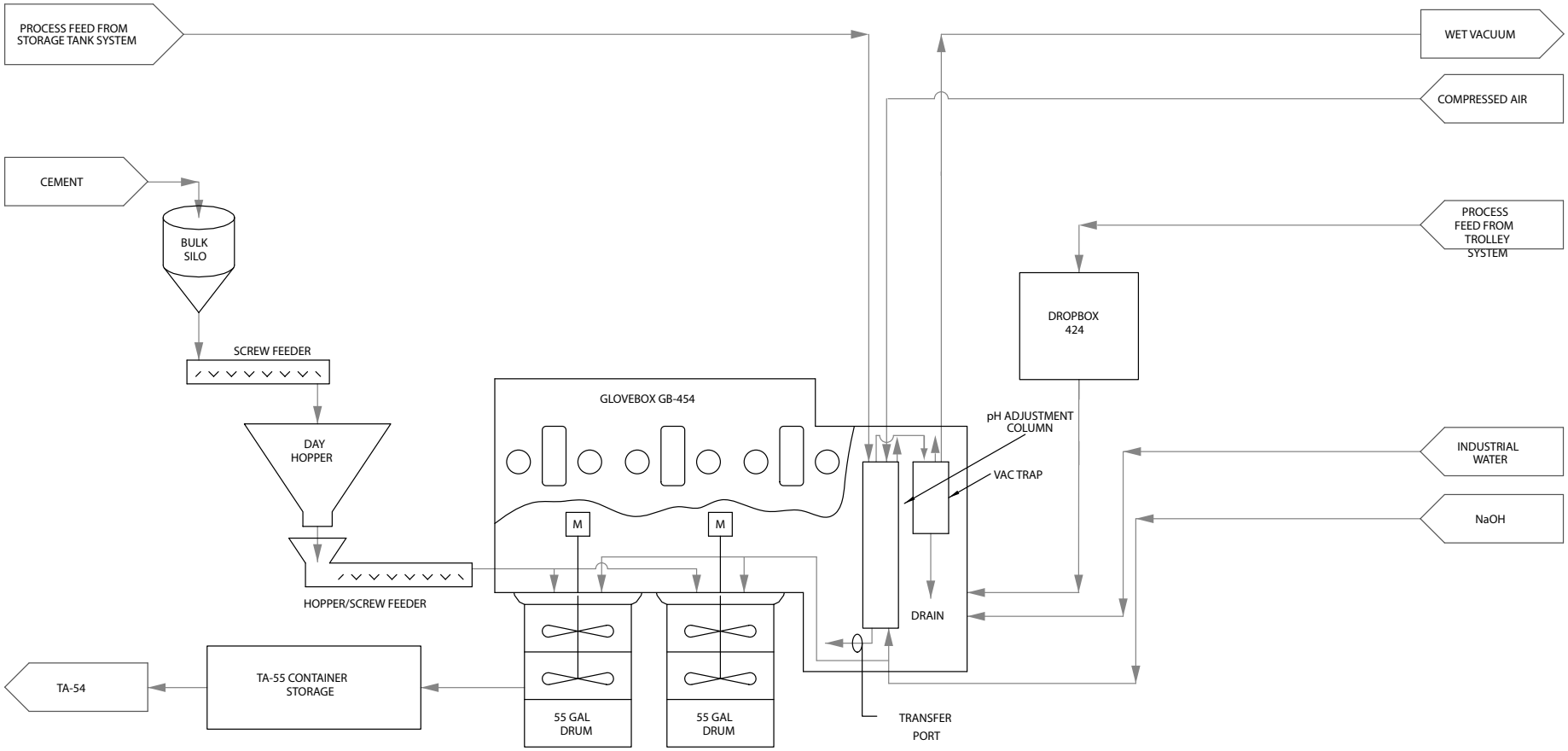


Figure 48
Technical Area (TA)-55, Building 4, Room 401, Cementation Unit Process Flow Diagram

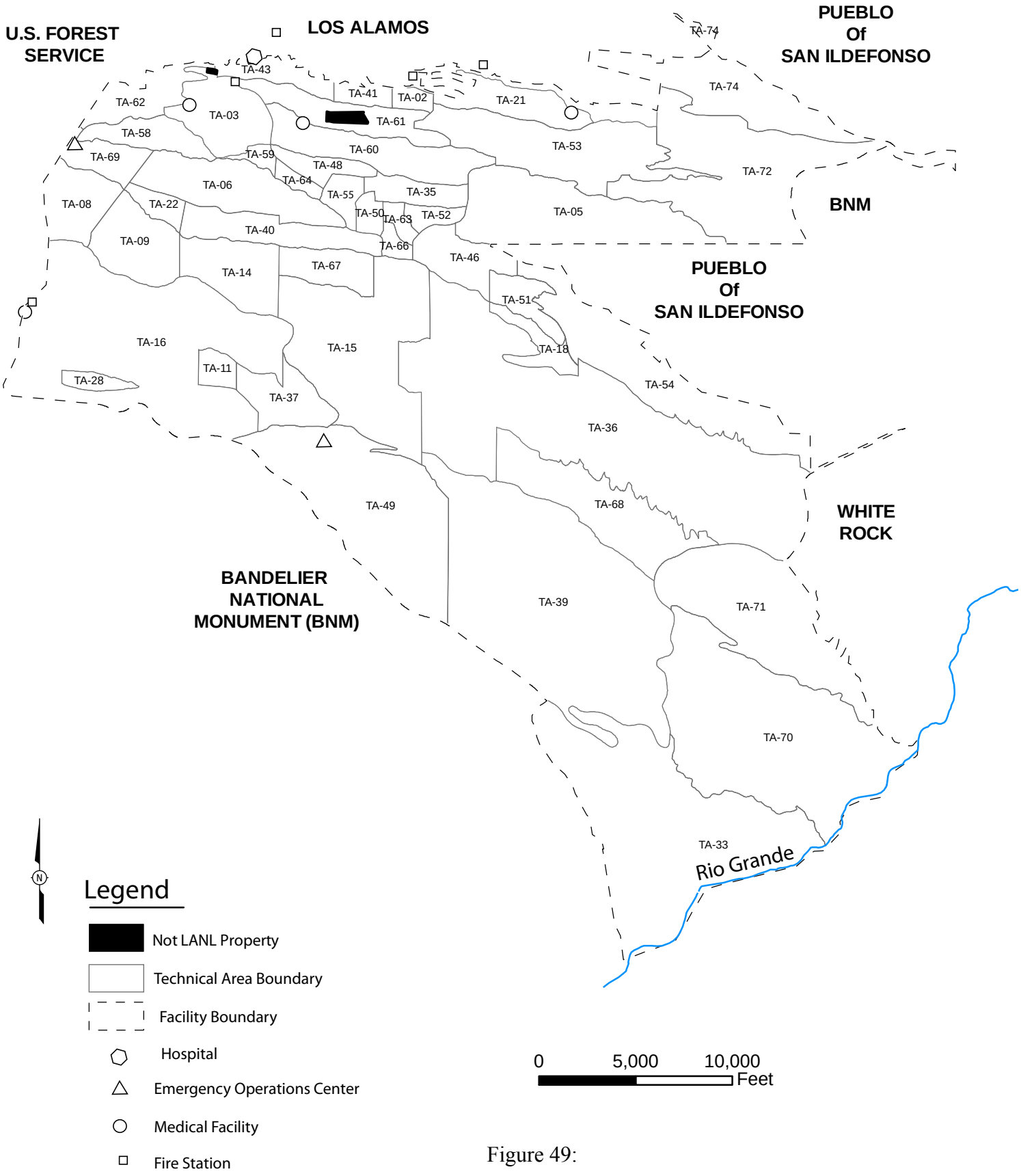
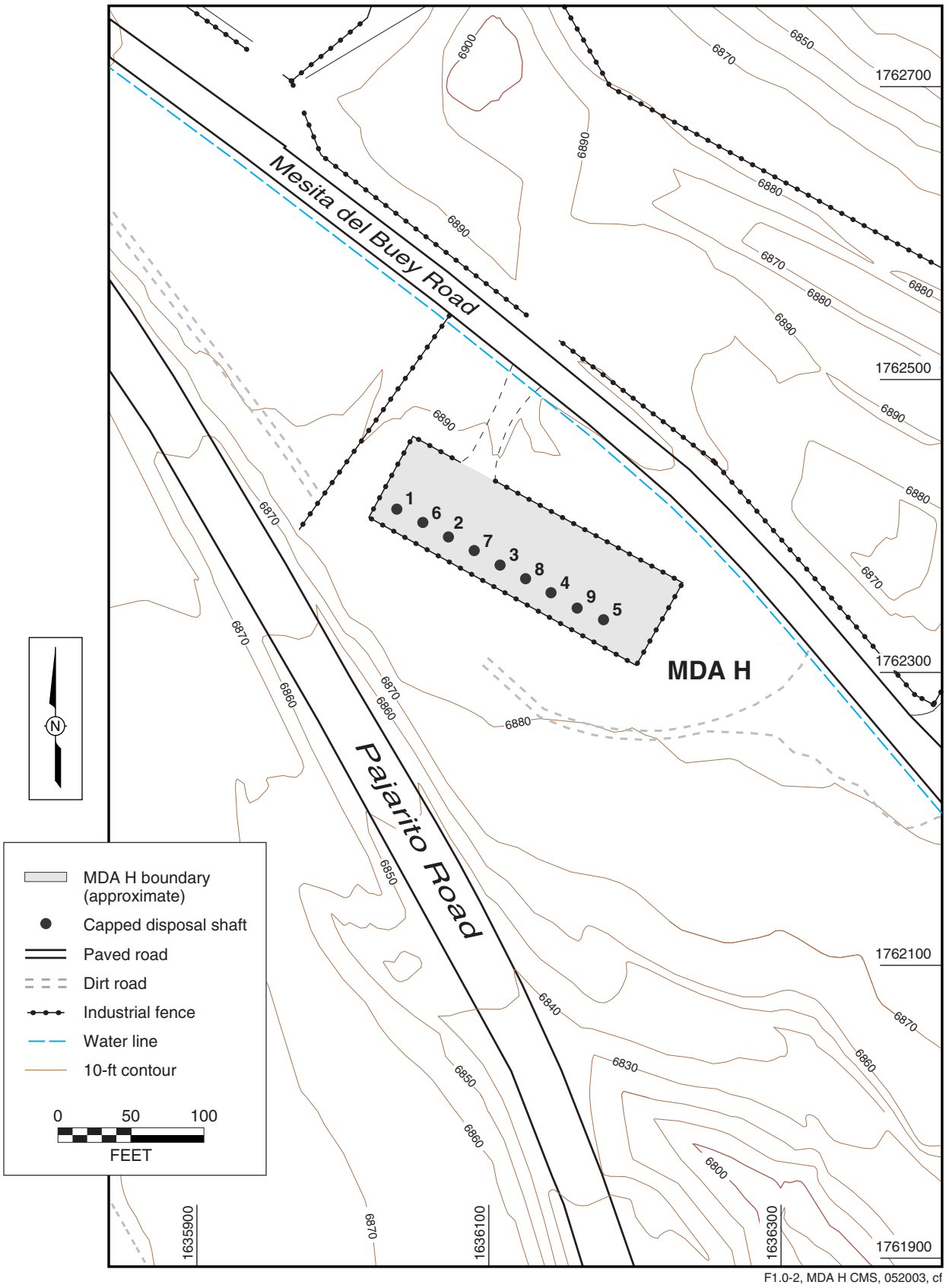


Figure 49:

Emergency Facilities at Los Alamos National Laboratory (LANL)

Created by EP-WES-EDA GIS TEAM. Map Number 06-0108 November 13, 2008, modified by ENV-RCRA August 2009
State Plane Coordinate System New Mexico Central Zone North American Datum 1983 (ft)
This map was created for work processes associated with the Environmental &Remediation Support Services. All other uses for this map should be confirmed with LANL EP-WES staff.
Boundary of Department of Energy Property I Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; infrastructure Planning Office. 04 June 2008
Boundary of Department of Energy Property In and Around the Los Alamos National Laboratory; Los Alamos National Laboratory, SSMO Site Planning & Project Initiation; 04 June 2008



F1.0-2, MDA H CMS, 052003, cf

Figure 50:
Technical Area (TA)-54, Material Disposal Area (MDA) H

FIGURE 51 – RESERVED

FIGURE 52 – RESERVED

FIGURE 53 – RESERVED

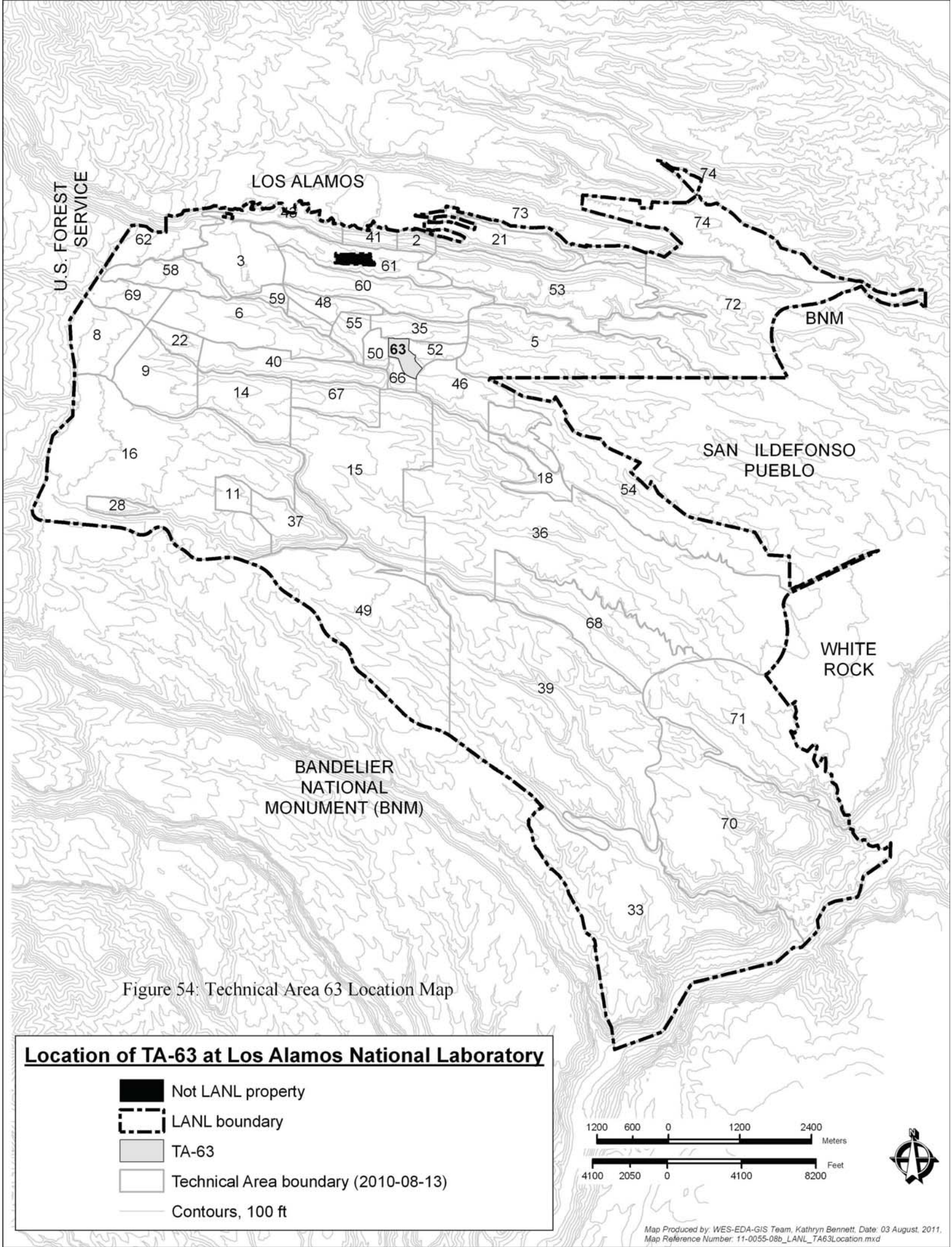


Figure 54: Technical Area 63 Location Map

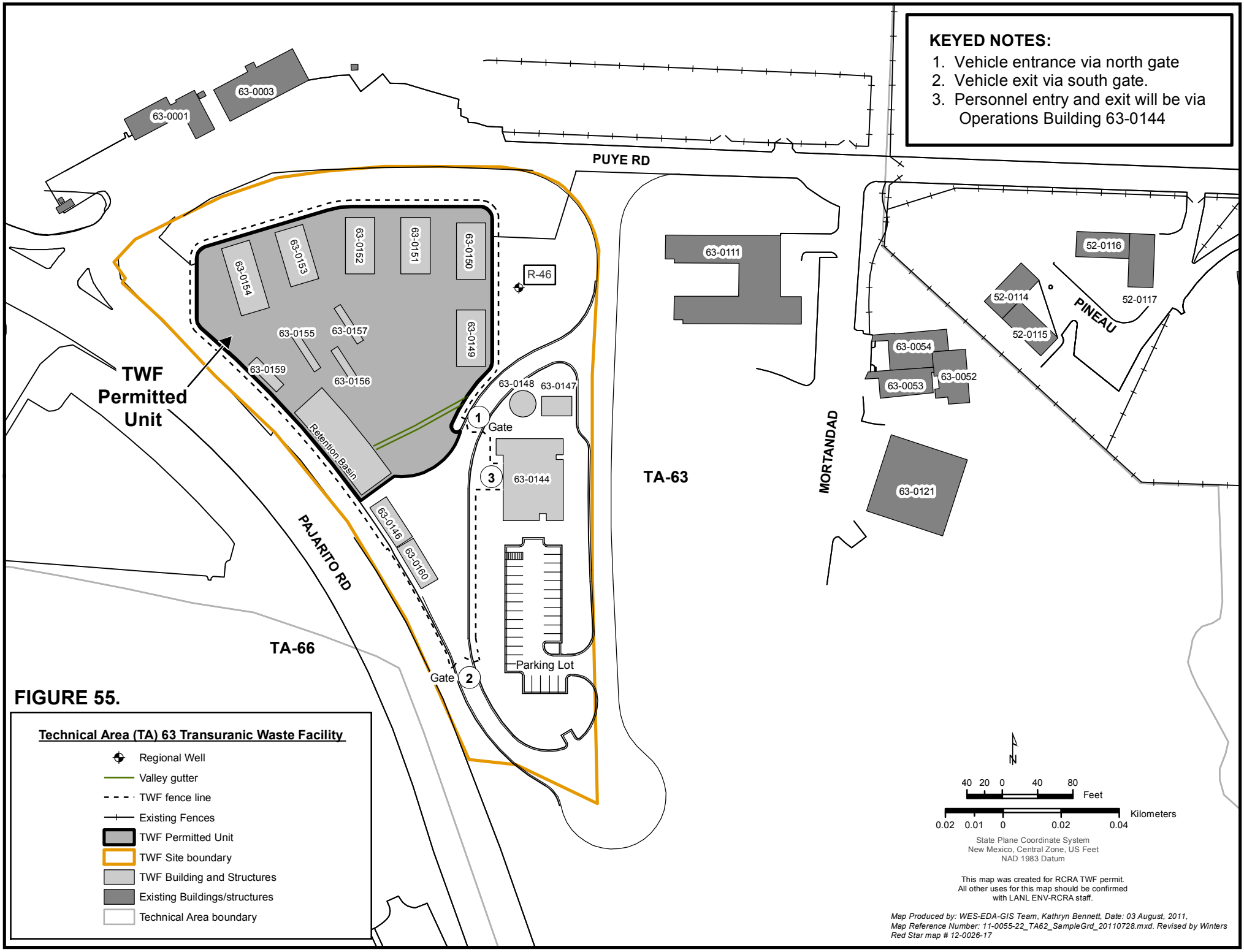

KEYED NOTES:
1. Vehicle entrance via north gate
2. Vehicle exit via south gate.
3. Personnel entry and exit will be via Operations Building 63-0144
PUYE RD
PAJARITO RD
MORTANDAD
PINEAU
TA-63
TA-66
TWF Permitted Unit
Retention Basin
Parking Lot
Gate
R-46
63-0001
63-0003
63-0111
63-0121
63-0144
63-0146
63-0147
63-0148
63-0149
63-0150
63-0151
63-0152
63-0153
63-0154
63-0155
63-0156
63-0157
63-0159
63-0160
63-0052
63-0053
63-0054
52-0114
52-0115
52-0116
52-0117
Technical Area (TA) 63 Transuranic Waste Facility
Regional Well
Valley gutter
TWF fence line
Existing Fences
TWF Permitted Unit
TWF Site boundary
TWF Building and Structures
Existing Buildings/structures
Technical Area boundary
40 20 0 40 80 Feet
0.02 0.01 0 0.02 0.04 Kilometers
State Plane Coordinate System
New Mexico, Central Zone, US Feet
NAD 1983 Datum
This map was created for RCRA TWF permit.
All other uses for this map should be confirmed
with LANL ENV-RCRA staff.
Map Produced by: WES-EDA-GIS Team, Kathryn Bennett, Date: 03 August, 2011,
Map Reference Number: 11-0055-22_TA62_SampleGrd_20110728.mxd. Revised by Winters
Red Star map # 12-0026-17

FIGURE 55.

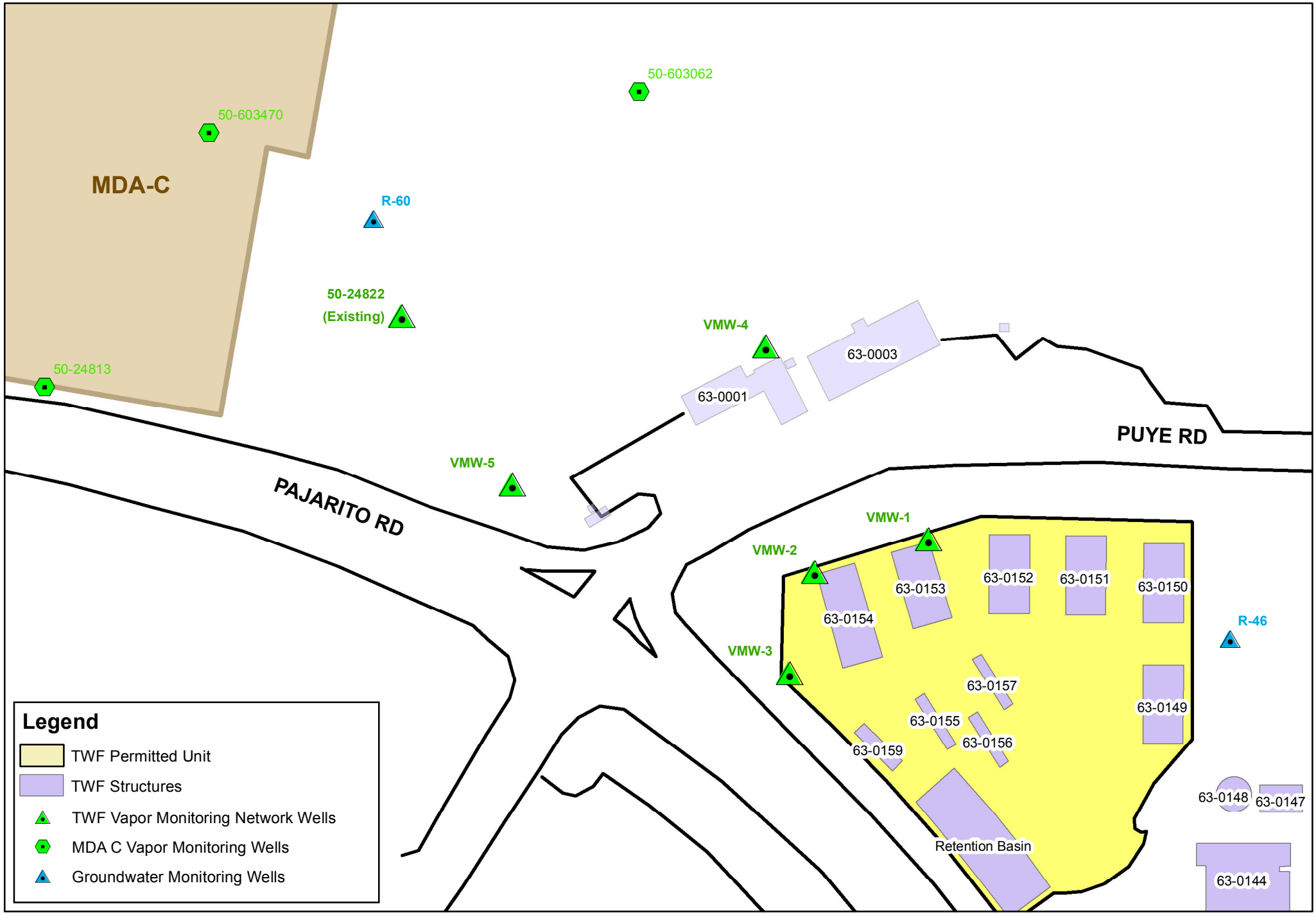


Figure 56

Transuranic Waste Facility Subsurface Vapor Monitoring Network

1:1,200

0 25 50 100 150 200 Feet

N W E S