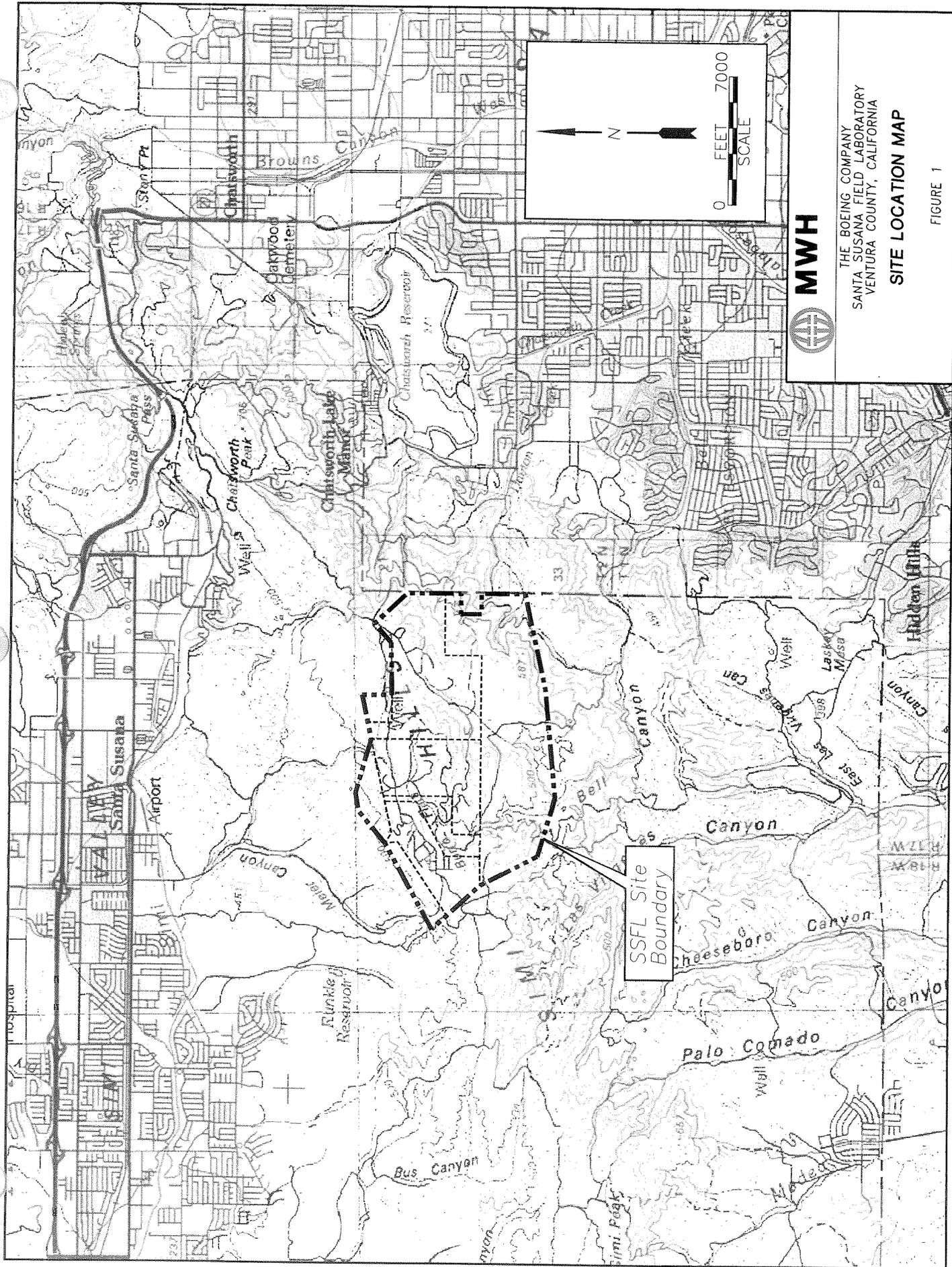


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- Figure 2 Building T029 and Building T133 Location
- Figure 3 Building T029 and Building T133 2000' Radius Map
- Figure 4 Current Geologic Map of SSFL (Dec. 2002)
- Figure 5 Conceptual Cross Section – Groundwater Systems at SSFL
- Figure 6 Waste Management Overview
- Figure 7 T029 Topographic Detail
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- Figure 31 T133 Sampling for PVC Drainage Pipe and Asphalt Culvert

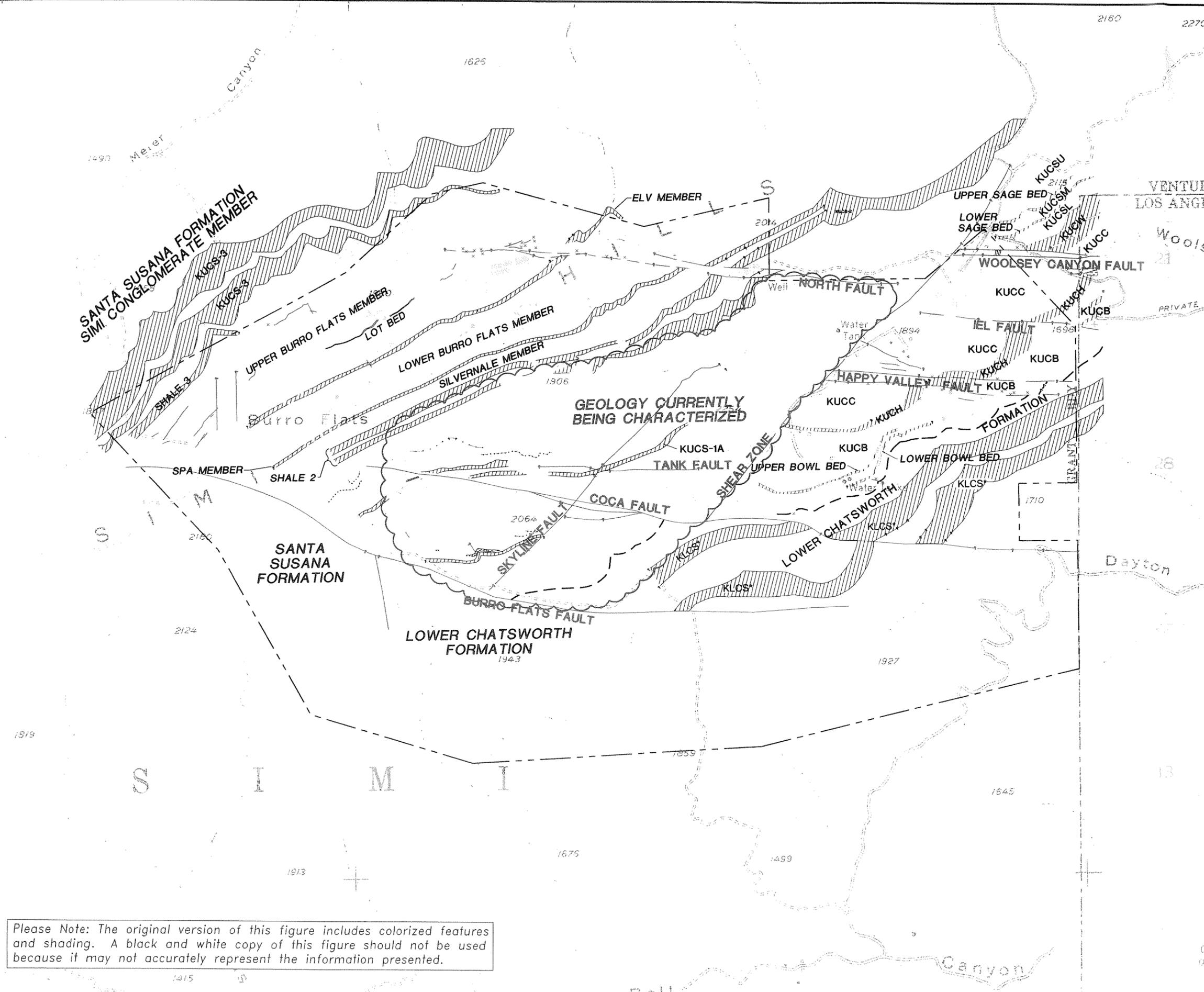


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THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 VENTURA COUNTY, CALIFORNIA

SITE LOCATION MAP

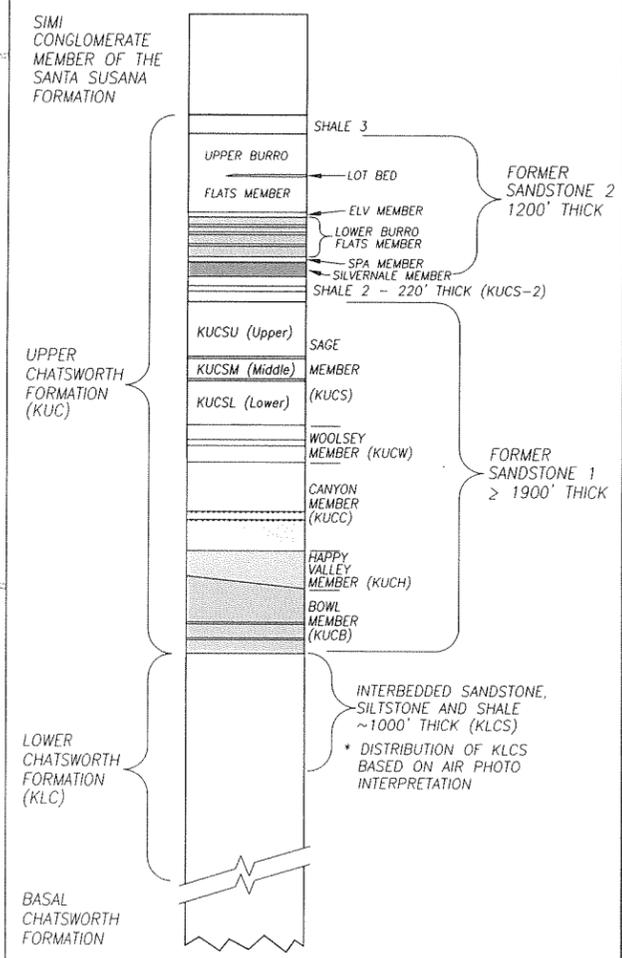
FIGURE 1



Legend

- Property Boundary
- Shale Bed
- Fault
- Contact Between Upper & Lower Chatsworth Formation

1" = 1667'



Stratigraphic Column, 2002 (not to scale)

Note: KUCS-1A & 1B are shale units in former Sandstone 1 that have not yet been characterized within the refined stratigraphy of former Sandstone 1.

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of this figure should not be used because it may not accurately represent the information presented.

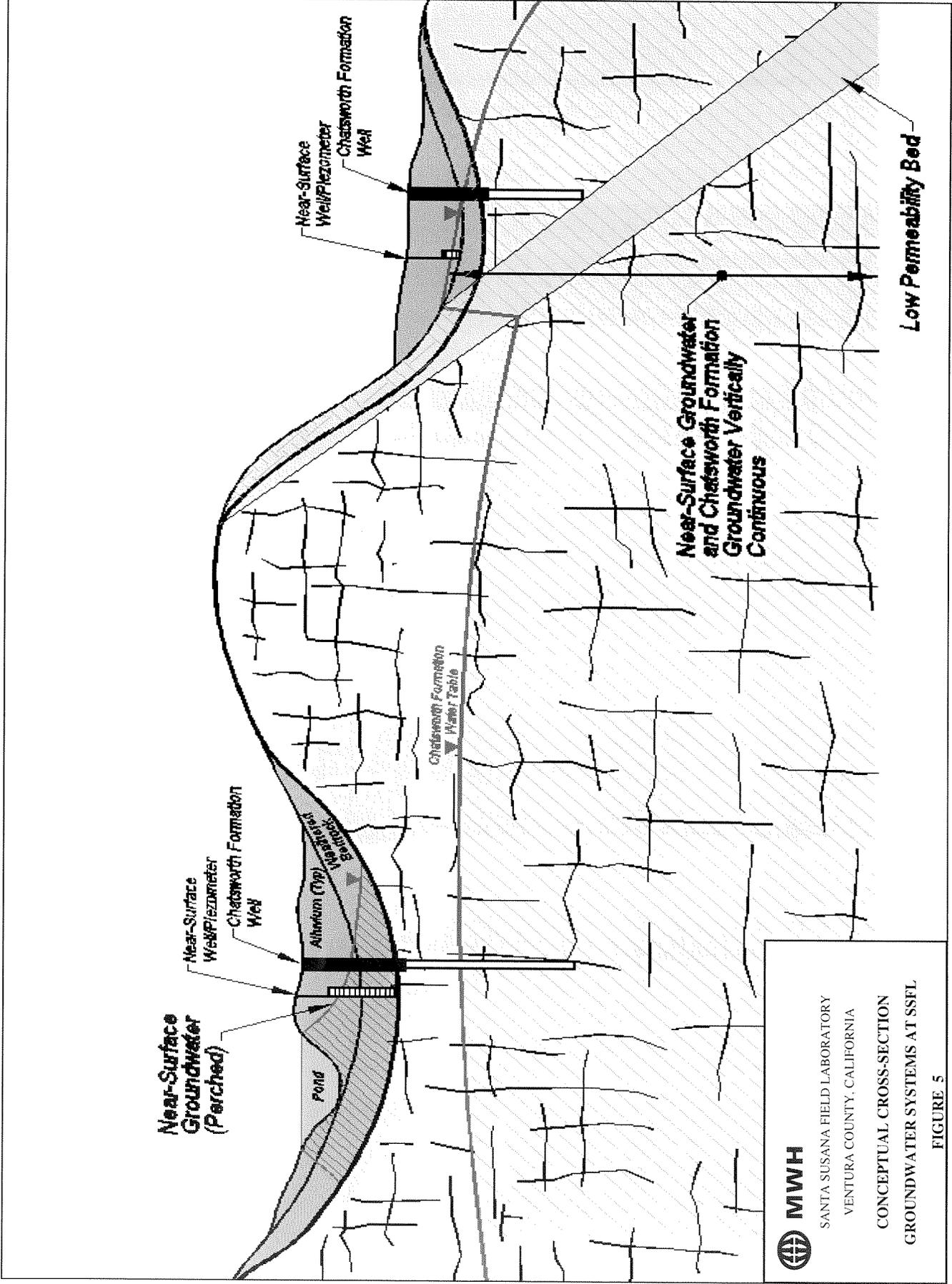
MWH MARCH 2003

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

**CURRENT GEOLOGIC MAP
OF SSFL (DEC. 2002)**

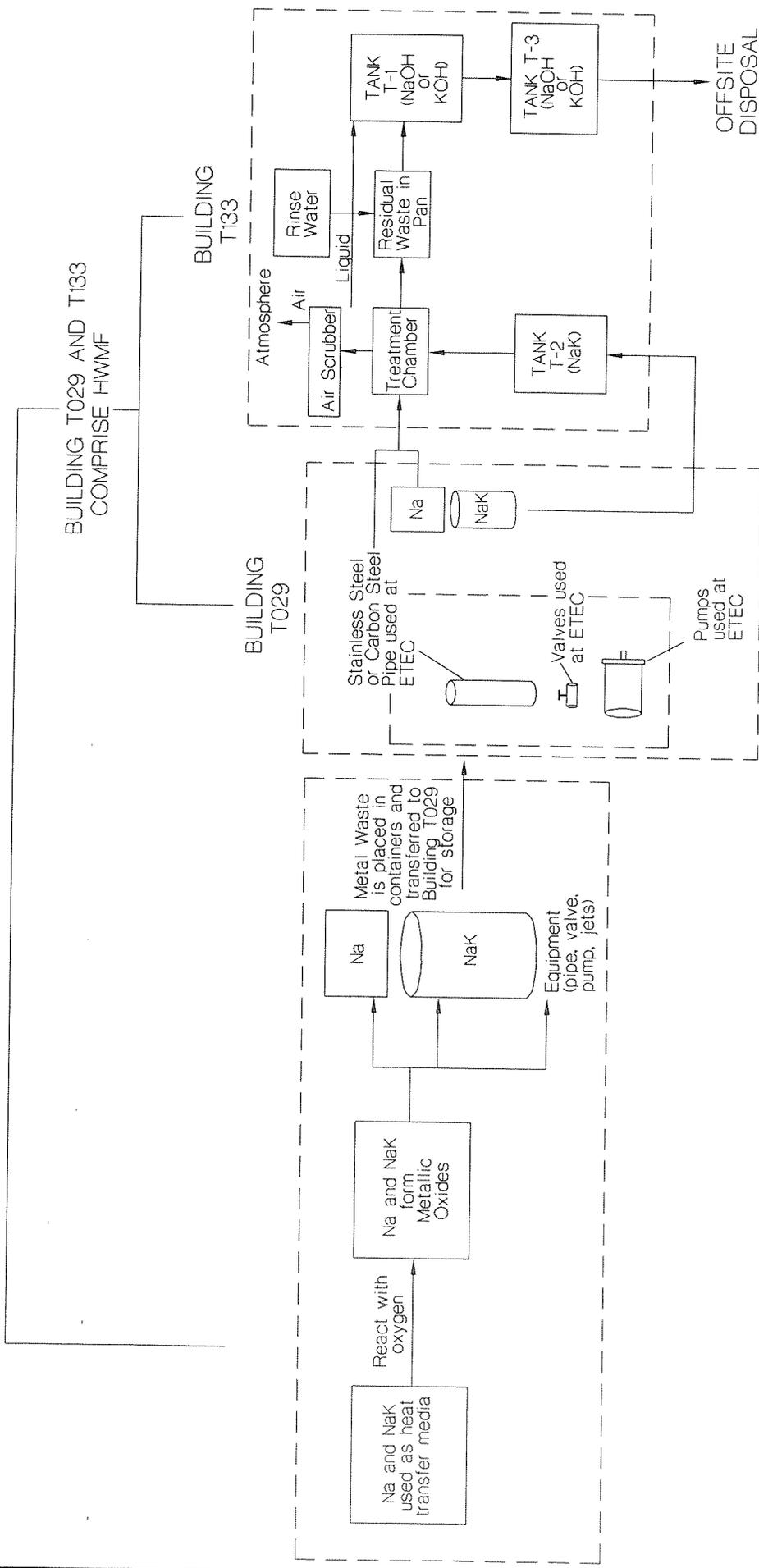
FIGURE 4

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 VENTURA COUNTY, CALIFORNIA
**CONCEPTUAL CROSS-SECTION
 GROUNDWATER SYSTEMS AT SSFL**
FIGURE 5

ENERGY TECHNOLOGY ENGINEERING CENTER (ETEC)



EXPLANATION

Na	Sodium
NaK	Sodium Potassium
NaOH	Sodium Hydroxide
KOH	Potassium Hydroxide
HWMF	Hazardous Waste Management Facility
ETEC	Energy Technology Engineering Center

NOTE: ETEC is area of Operation not legal/physical boundary.



SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

WASTE MANAGEMENT OVERVIEW

FIGURE 6

Boeing / Santa Susana Field Laboratory

SANTA SUSANA FIELD LABORATORY T029 TOPOGRAPHIC DETAIL

Legend

Sandstone Unit Boundary

Notes:



MWH

FIGURE

7

Base Map Legend

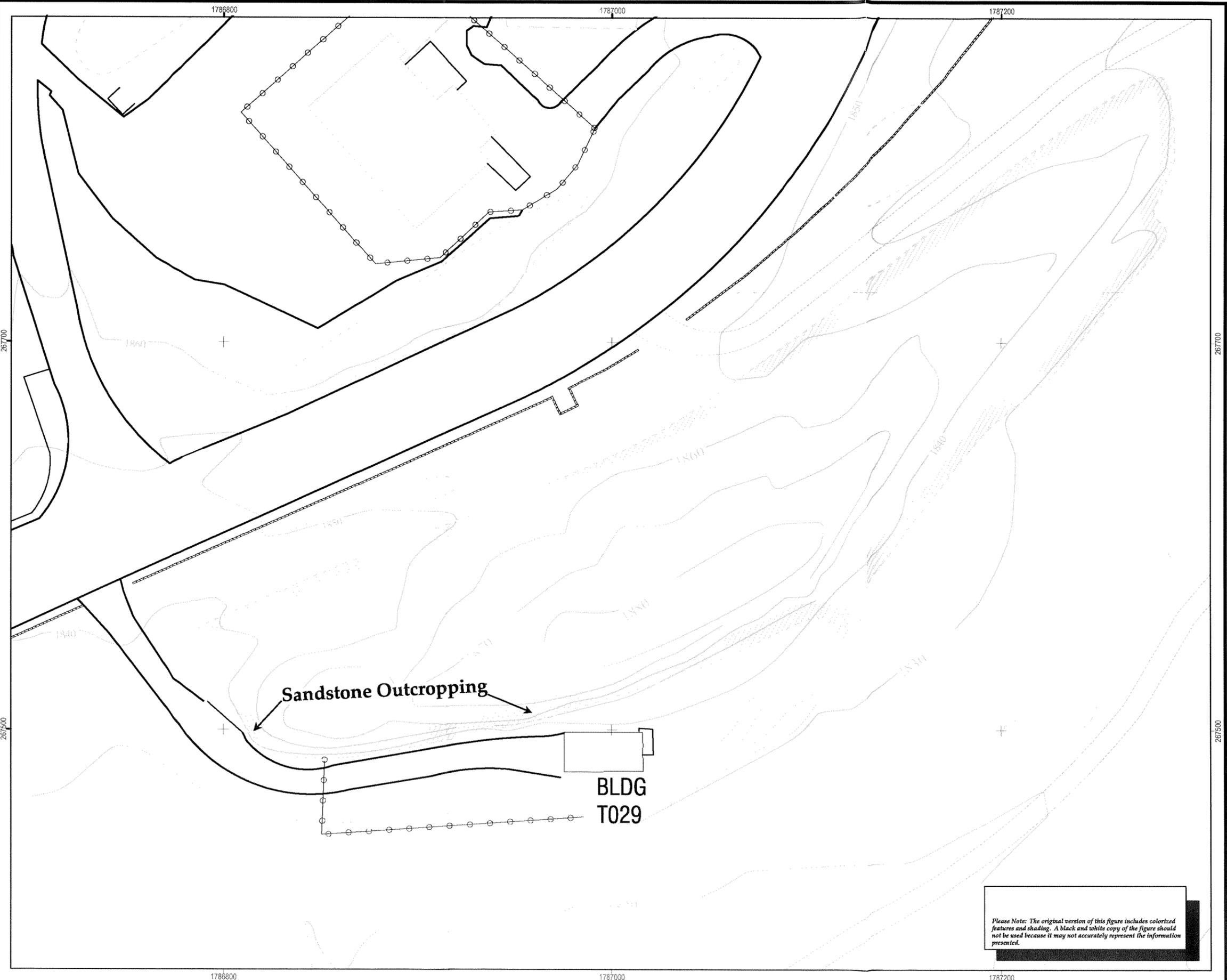
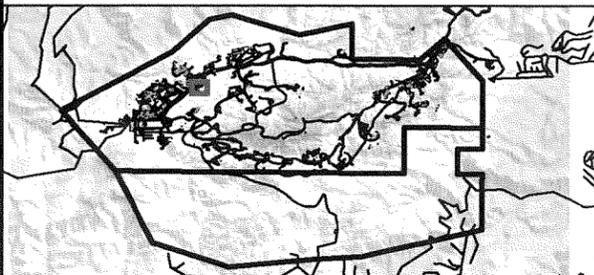
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|--|--|--|-----------------------------------|
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| | Removed Building or Structure | | A/C Curbing |
| | Other Tanks, R Indicates Removed | | Dirt Road |
| | Solvent Tanks, R Indicates Removed | | Ponds |
| | Petroleum Fuel/Oil Tanks, R Indicates Removed | | Possible Ponds (approx. location) |
| | Hydrazine (MMH, UDMH, HZ) Tanks, R Indicates Removed | | Fences |
| | Awnings | | Pipes |
| | Administrative Area Boundary | | Creeks |
| | | | Rocks Outcrops |
| | | | Leachfield |
| | | | Drainage Pipe |

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SANDSTONE OUTCROPPING

CONCRETE PAD

CONCRETE PATCH

CRACK (PATCHED)

8' DOOR

3' DOOR

LOWSPOT

CRACK (PATCHED)

FENCE

4" PVC DRAIN PIPE

ROADWAY

TOP OF SLOPE

ROAD WIDTH VARIES 19' TO 29'



SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

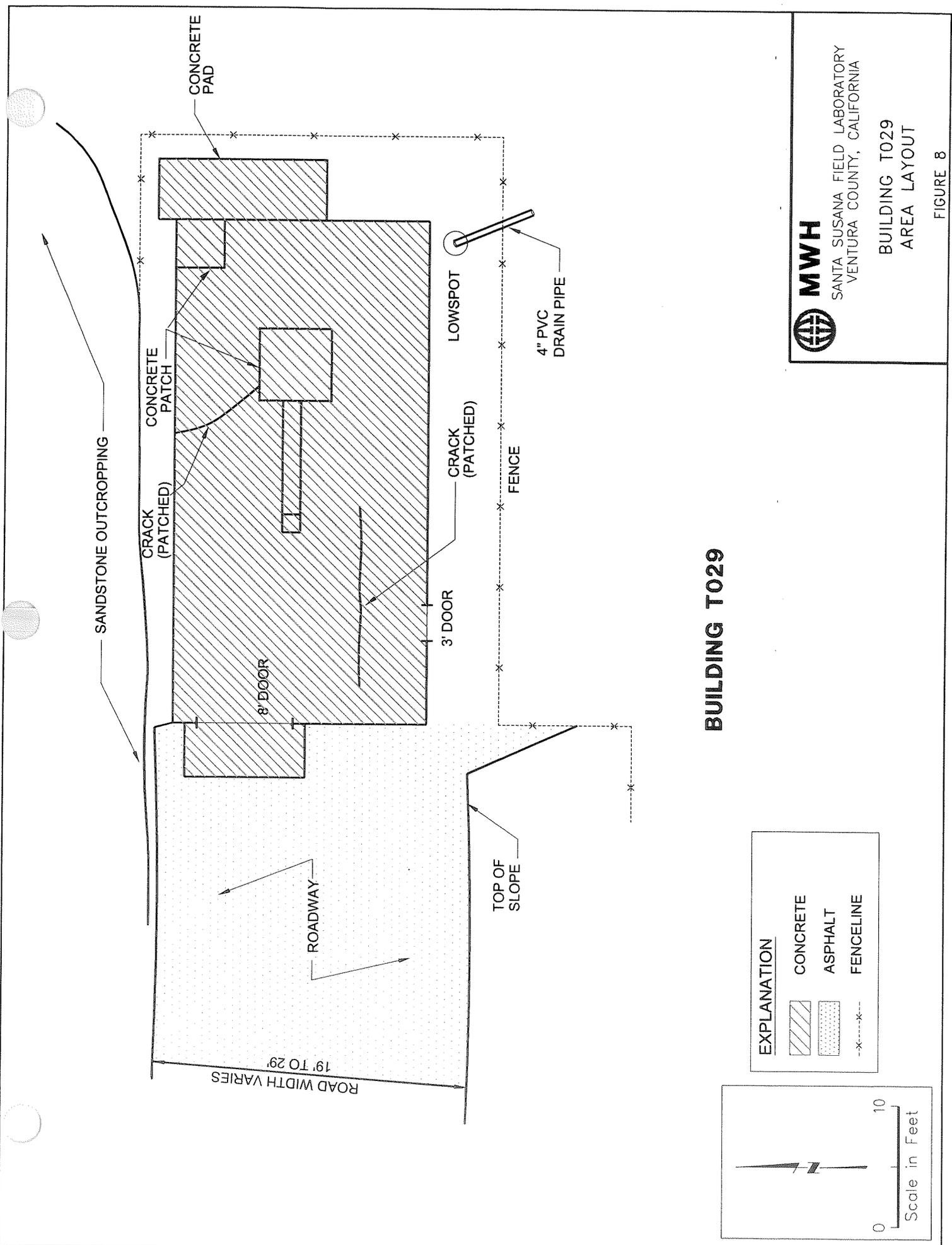
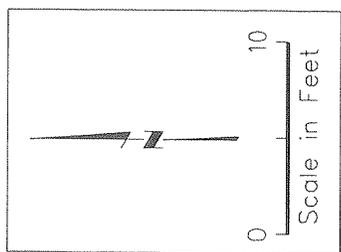
BUILDING T029
AREA LAYOUT

FIGURE 8

BUILDING T029

EXPLANATION

- CONCRETE
- ASPHALT
- FENCELINE



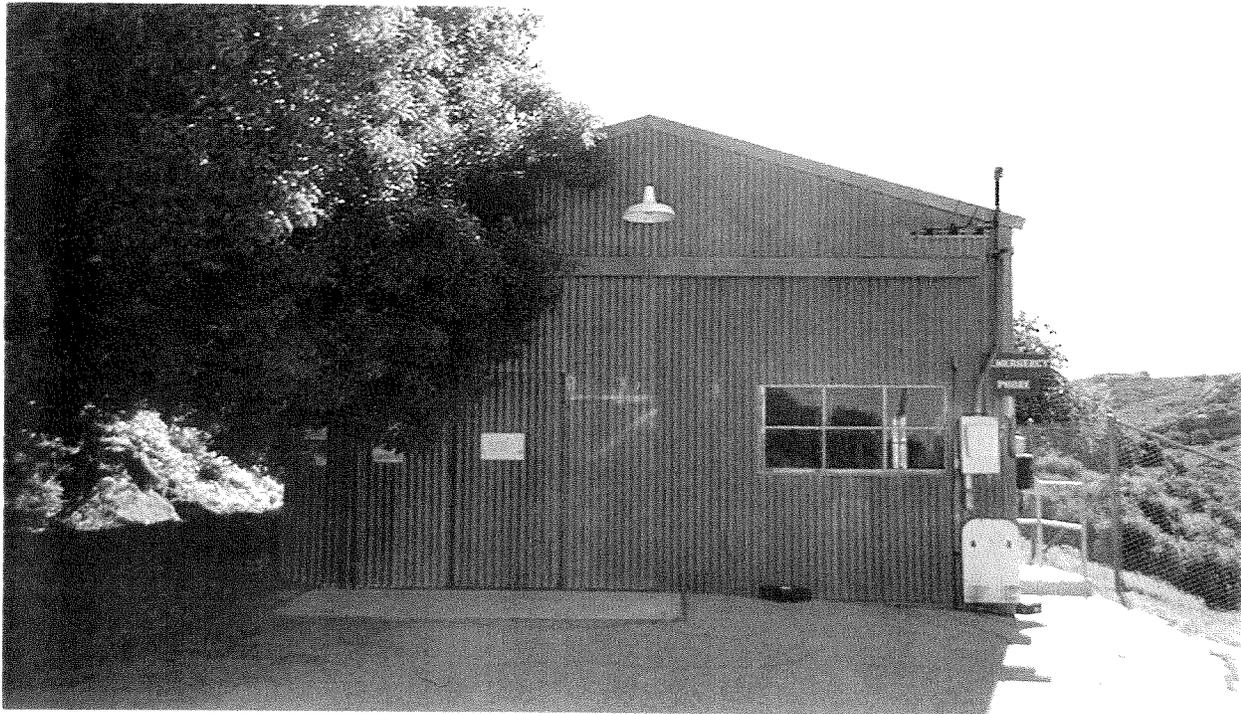


Photo 1 (Above): View of Building T029, note concrete loading pad at entrance, looking East. Concrete loading pad is 10 ft x 4 ft, in front of the 8 ft loading door.

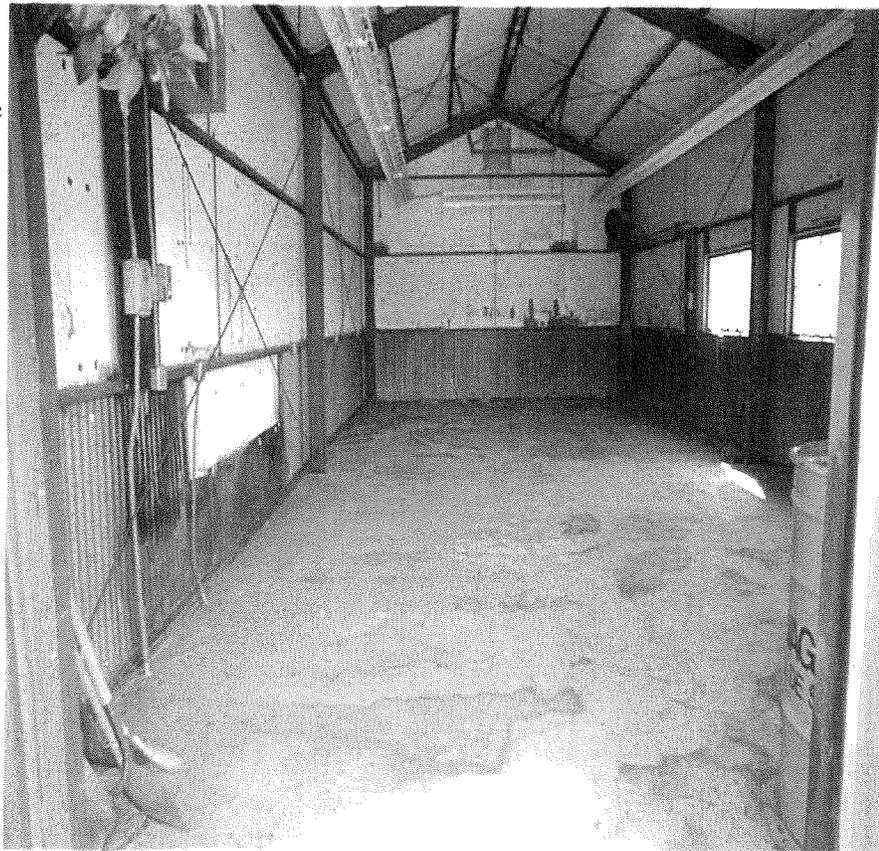


Photo 2 (Right): View inside Building T029, looking East. Size of building is 20 ft x 40 ft.

Figure 9

PHOTOS FOR HWMF - T029 AREA



Photo 3 (Above): Patched concrete area (approximately 4 ft x 4 ft) on North-Eastern corner of floor in Building T029.

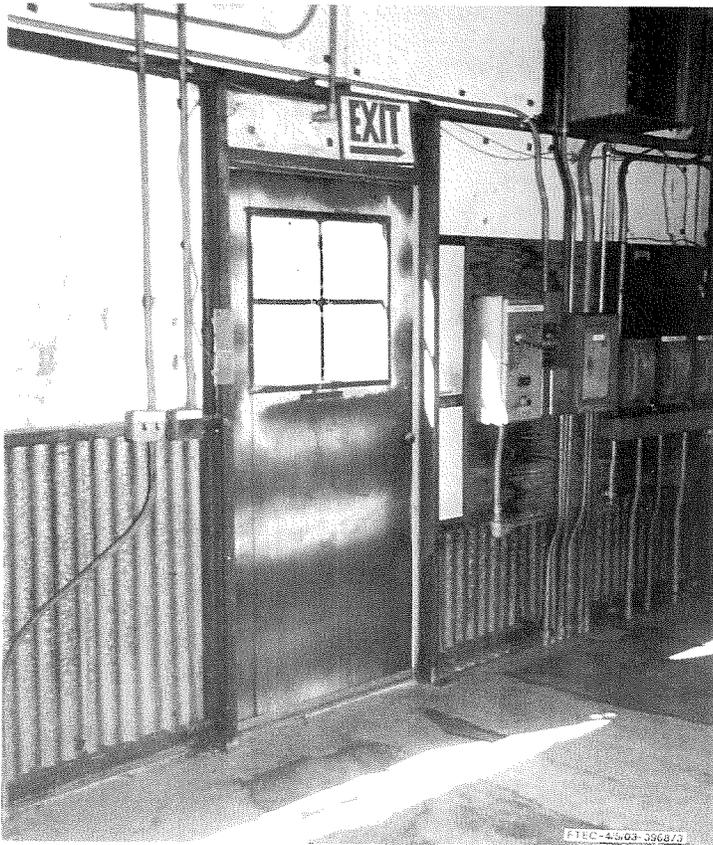


Photo 4 (Left): View of South-Western area of Building T029, including pedestrian entrance.

Figure 10

PHOTOS FOR HWMF - T029 AREA



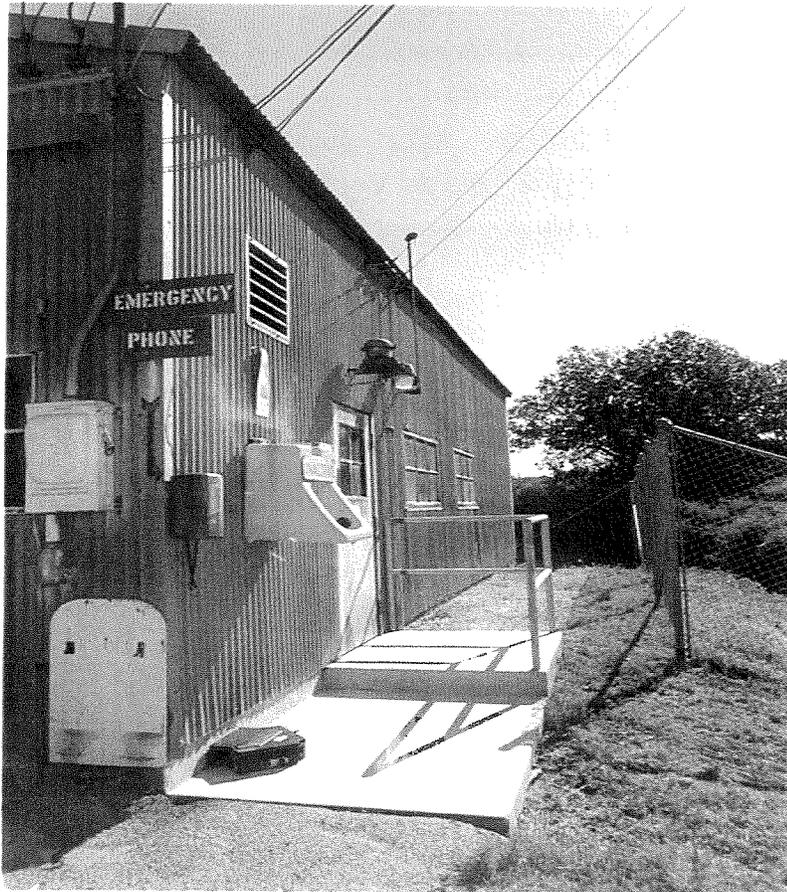


Photo 5 (Left): View of southern side of Building T029, looking East. Pedestrian entrance to building on south side.

Photo 6 (Below): Drainage pipe on South-Eastern corner of Building T029. Total length of drainage pipe is approximately 6 ft. Purpose of pipe is for drainage of rainfall from south side of the building, including rainfall from the roof of the building.



Figure 11



PHOTOS FOR HWMF - T029 AREA

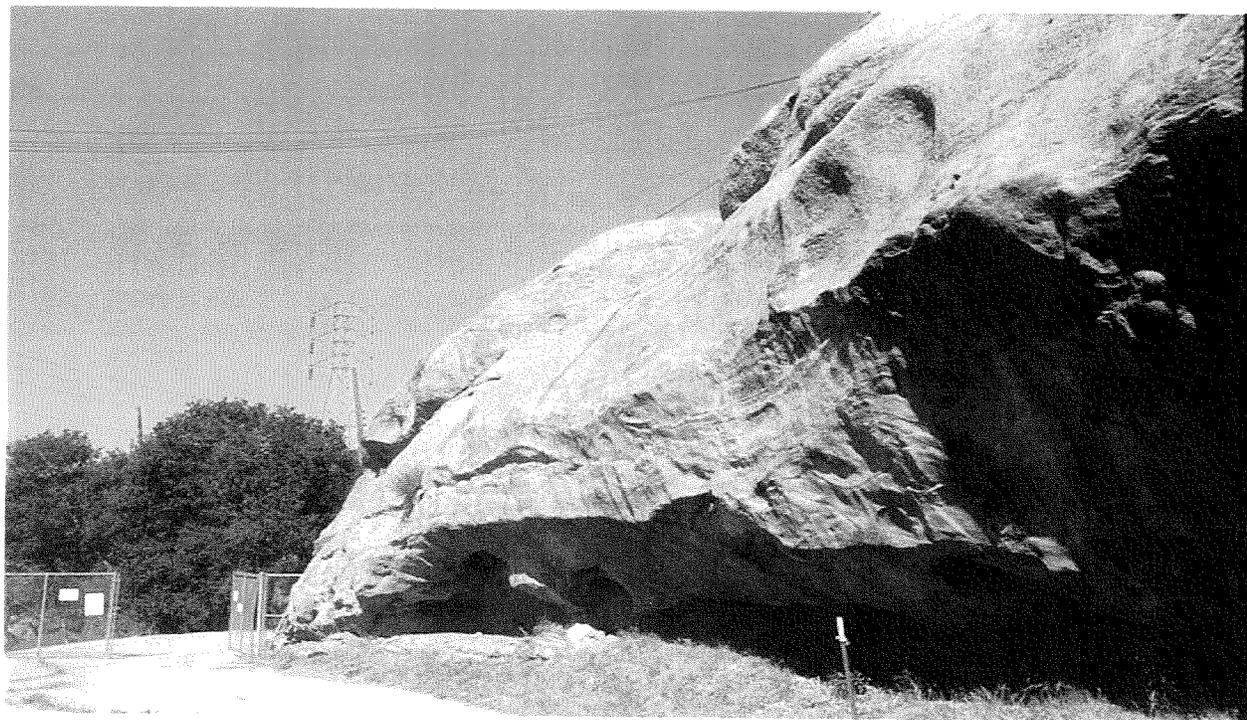


Photo 7 (Above): Sandstone outcropping and gate at Building T029.

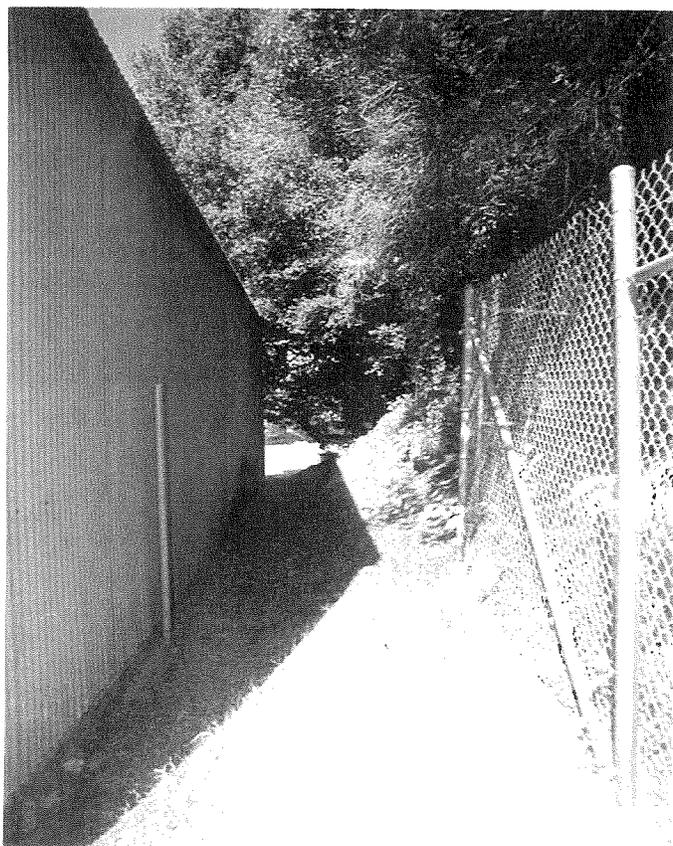


Photo 8 (Left): Behind Building T029.

Figure 12

PHOTOS FOR HWMF - T029 AREA



Boeing / Santa Susana Field Laboratory

SANTA SUSANA FIELD LABORATORY T133 TOPOGRAPHIC DETAIL

Legend

- Monitoring Wells

Notes:



FIGURE
13

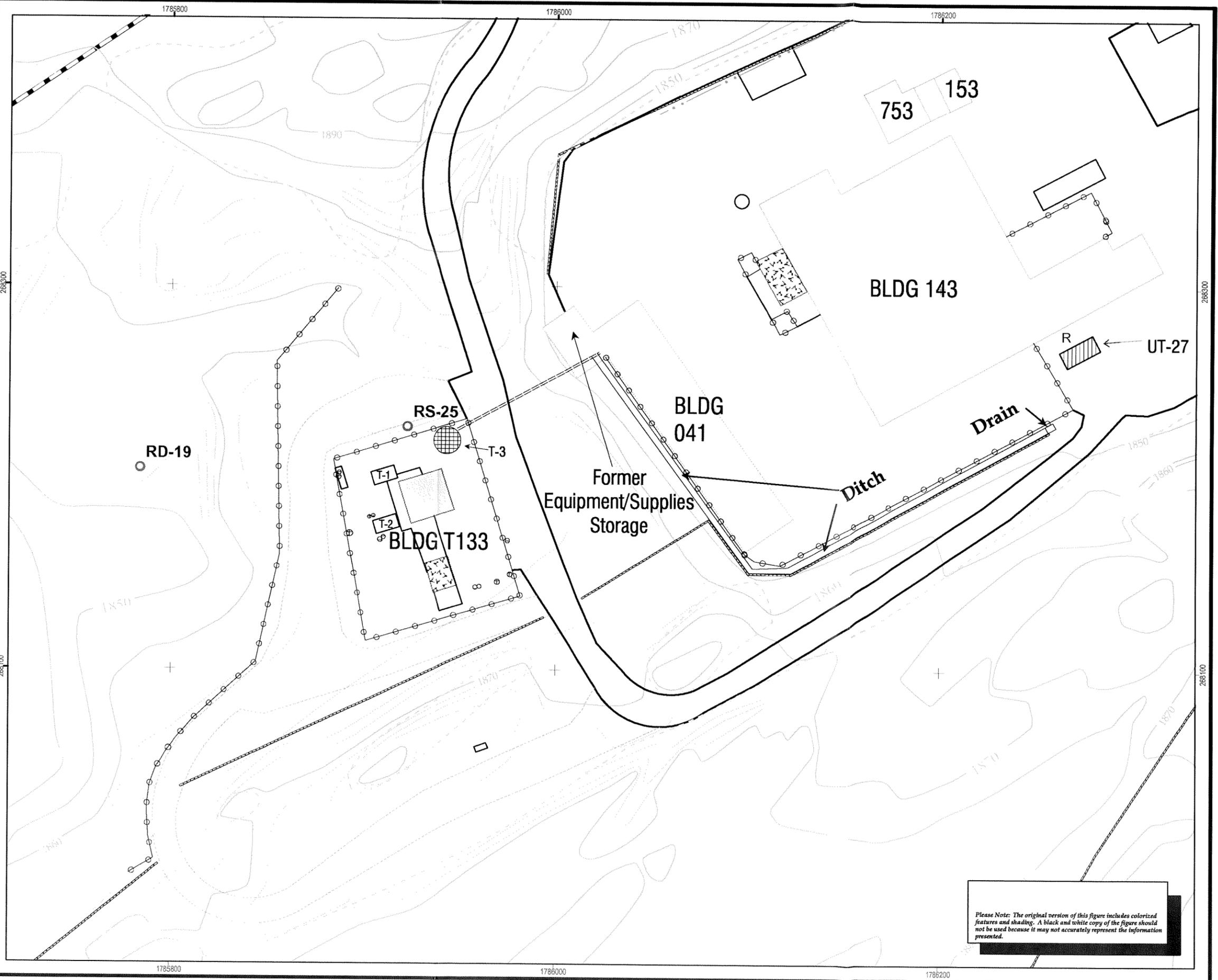
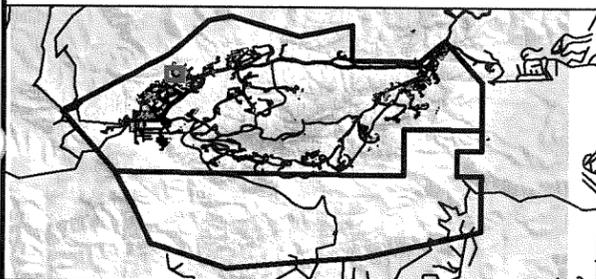
Base Map Legend

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|--|--|--|-----------------------------------|
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| | Removed Building or Structure | | A/C Curbing |
| | Other Tanks, R Indicates Removed | | Dirt Road |
| | Solvent Tanks, R Indicates Removed | | Ponds |
| | Petroleum Fuel/Oil Tanks, R Indicates Removed | | Possible Ponds (approx. location) |
| | Hydrazine (MMH, UDMH, HZ) Tanks, R Indicates Removed | | Fences |
| | Awnings | | Pipes |
| | Administrative Area Boundary | | Creeks |
| | | | Rocks Outcrops |
| | | | Leachfield |
| | | | Drainage Pipe |

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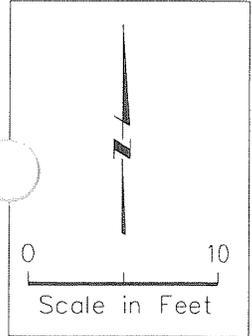
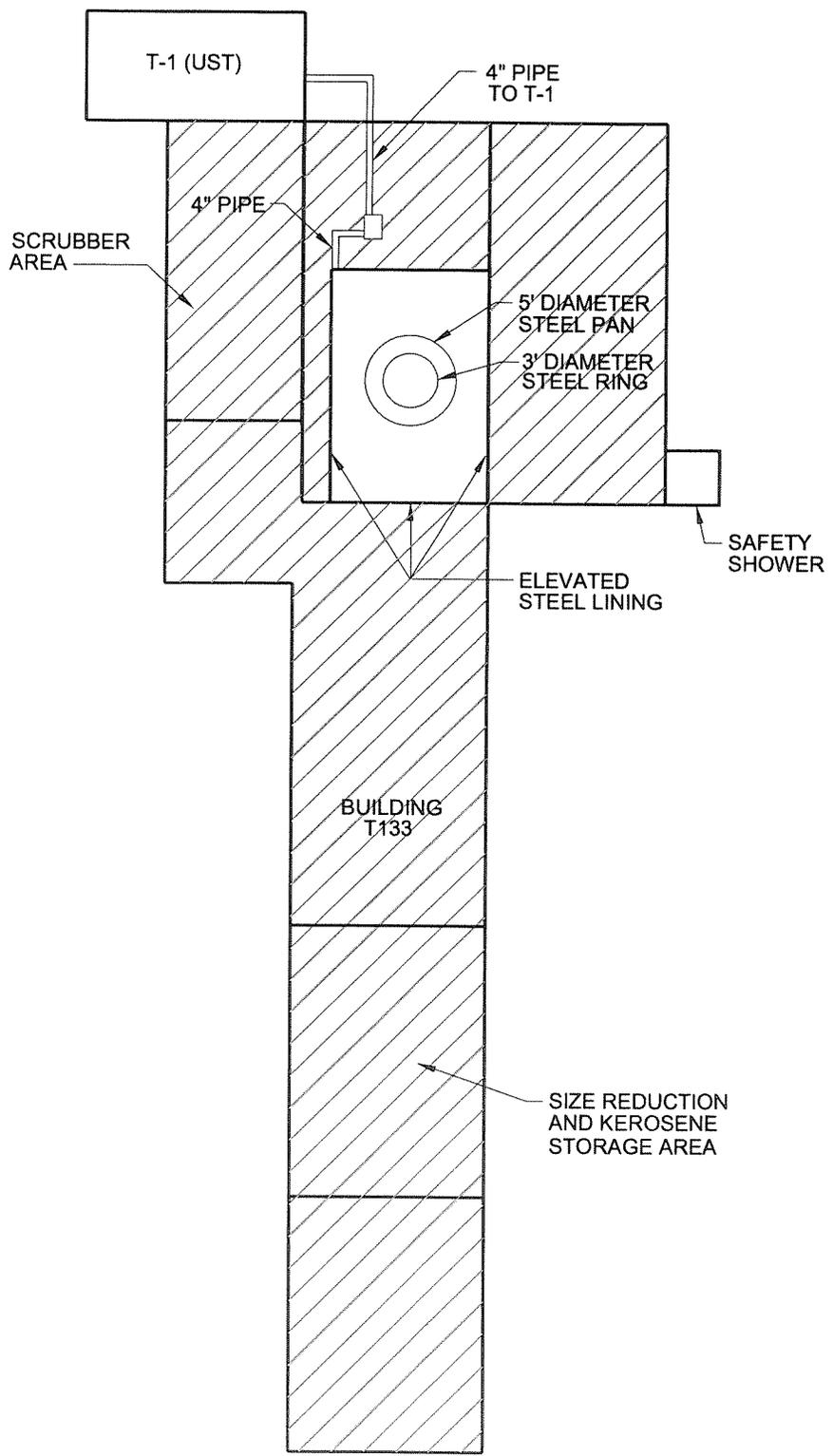


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EXPLANATION	
	CONCRETE

	MWH
	SANTA SUSANA FIELD LABORATORY VENTURA COUNTY, CALIFORNIA
TREATMENT CHAMBER DETAIL AT BUILDING T133	
FIGURE 15	

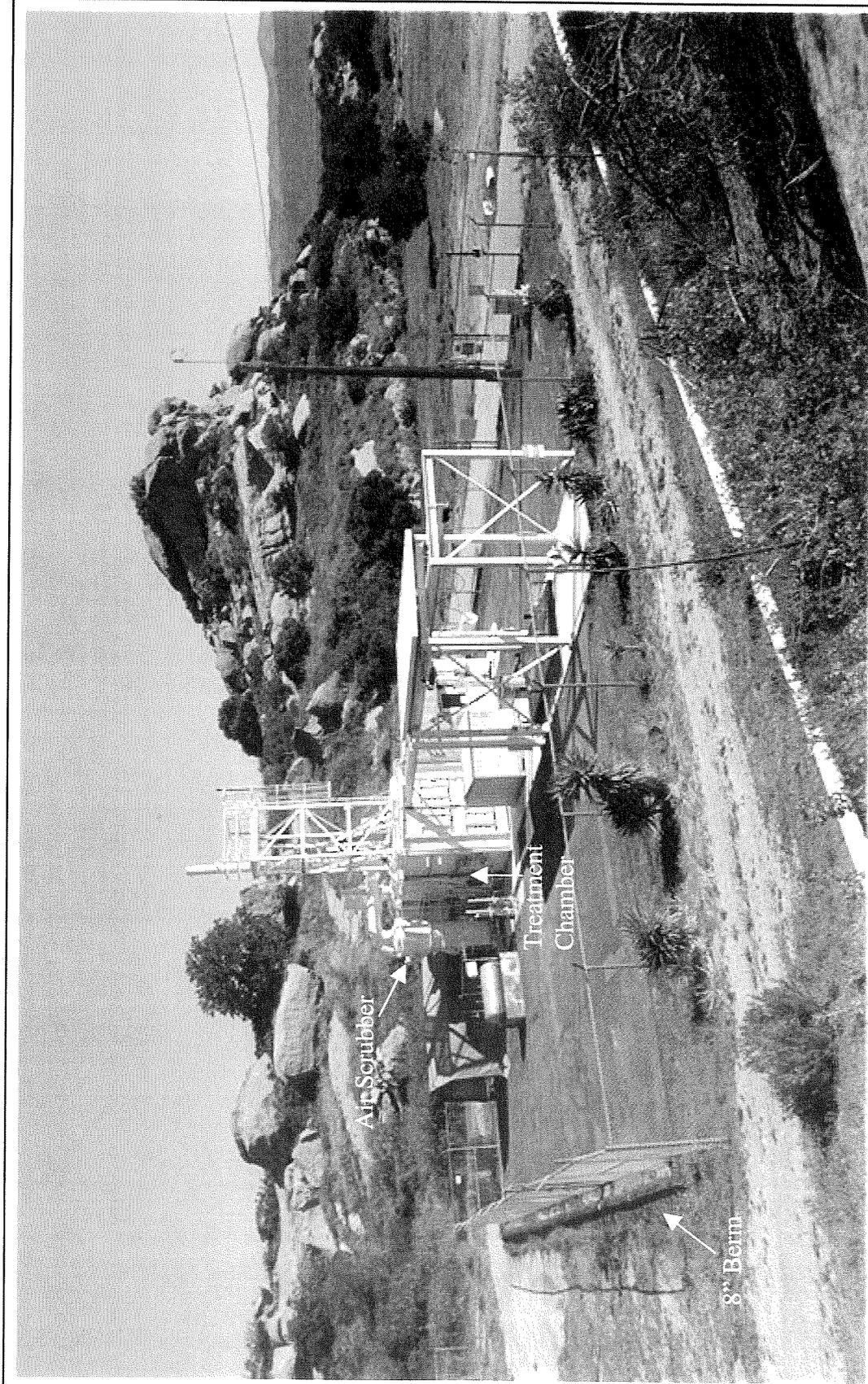


Photo 1: View of Building T133 (looking north). Fenced area is approximately 70 ft wide (i.e. east-west direction) x 85 ft long (i.e. north-south direction).

Figure 16

PHOTOS FOR HWMF - T133 AREA



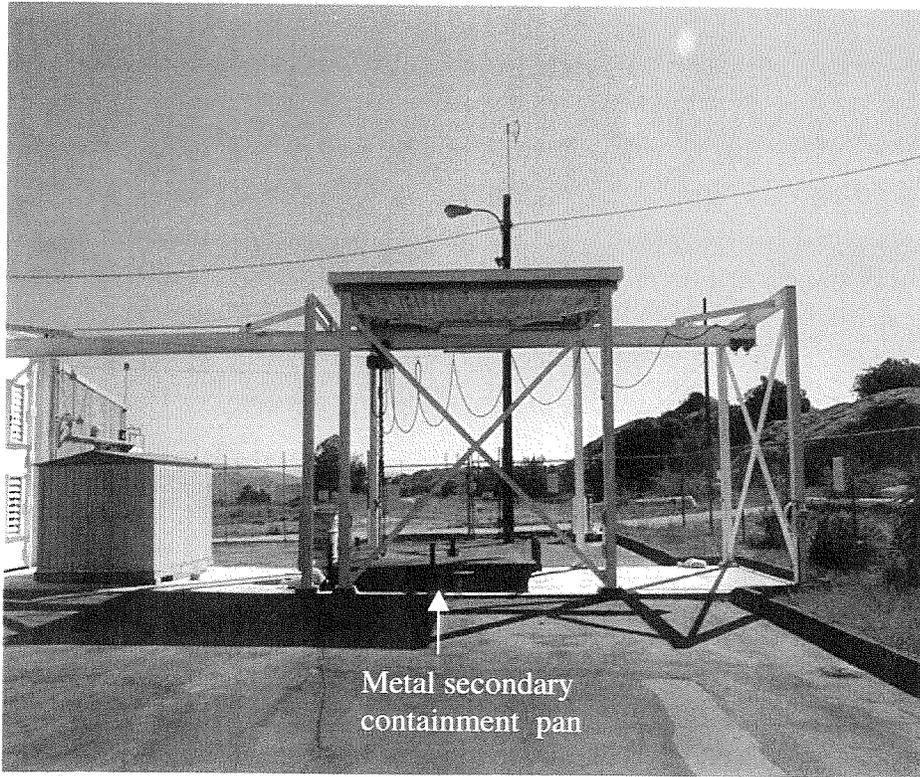


Photo 2: Size reduction area with concrete floor and over head lift (looking east). Size reduction performed under canopy (about 15 ft x 10 ft) within a metal secondary containment pan placed on the concrete.

Photo3: View of treatment chamber, Tank T-2, and air scrubber (looking north). Treatment chamber on west side of building, about 10 ft wide x 10 ft long. Air scrubber located on west side of building. Tank T-2 shown within secondary containment, to the west of the scrubber. Cover to Tank T-1 seen in background.

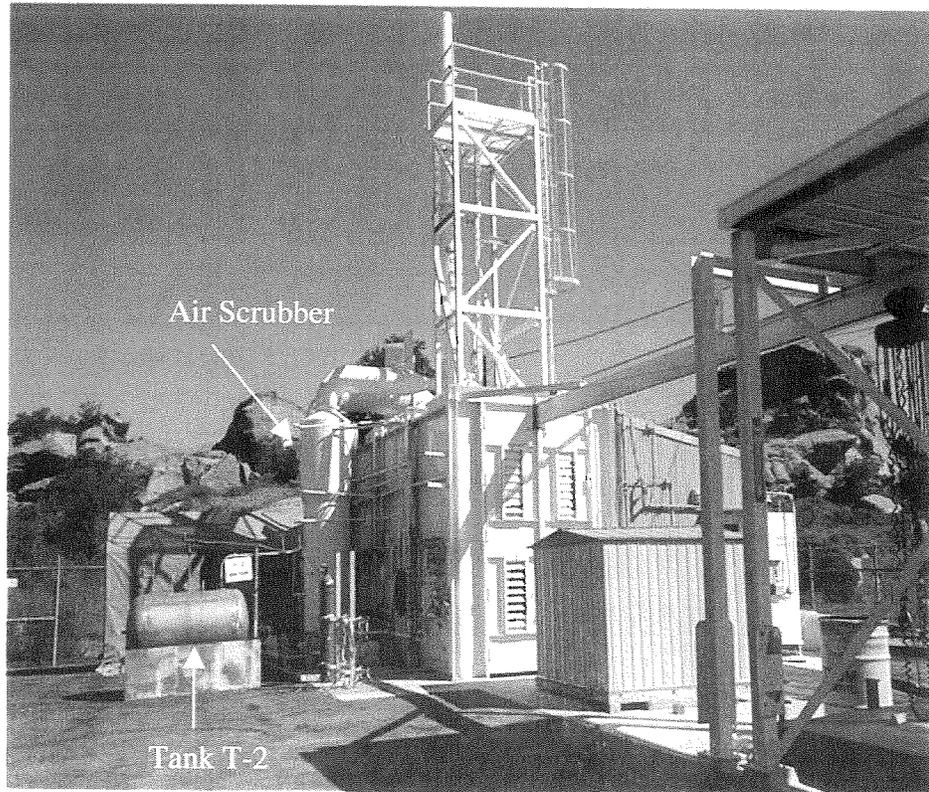


Figure 17

PHOTOS FOR HWMF - T133 AREA

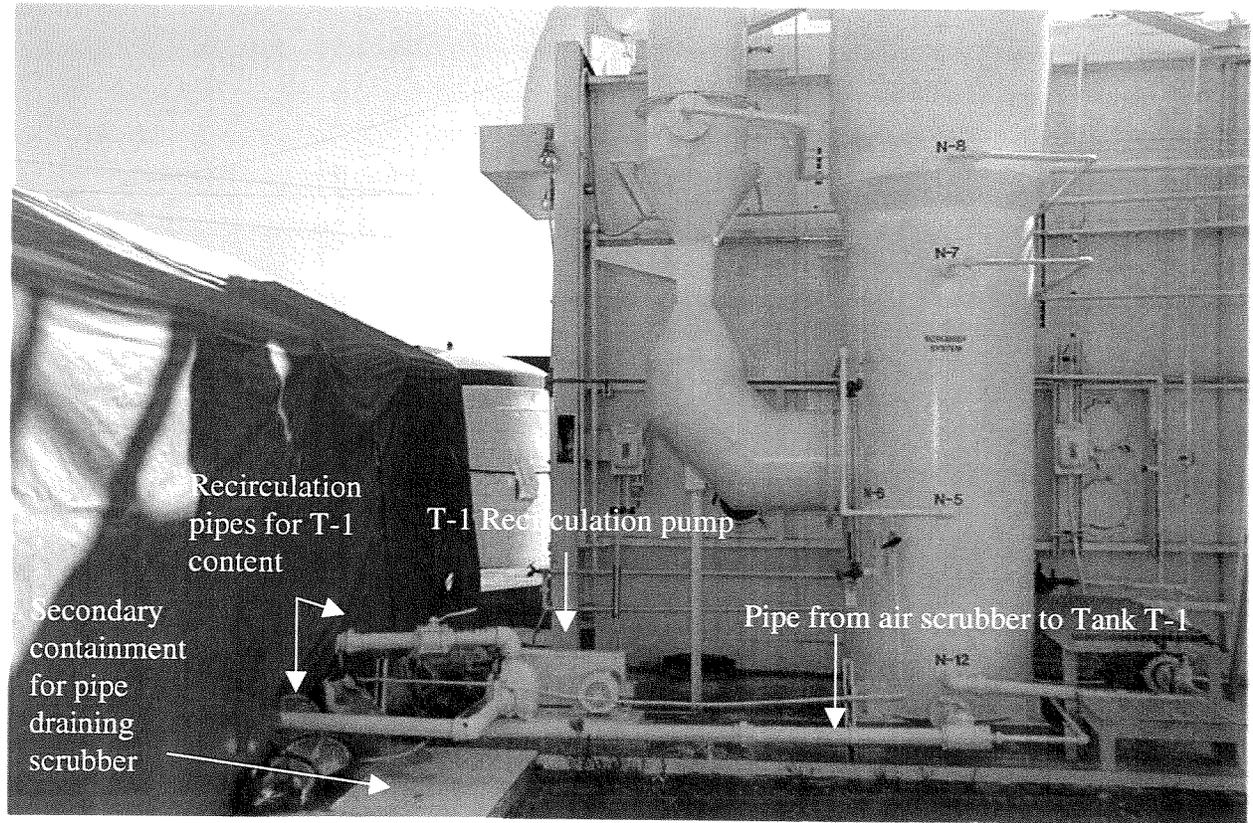


Photo 4 (Above):
Detail of scrubber area
looking east.

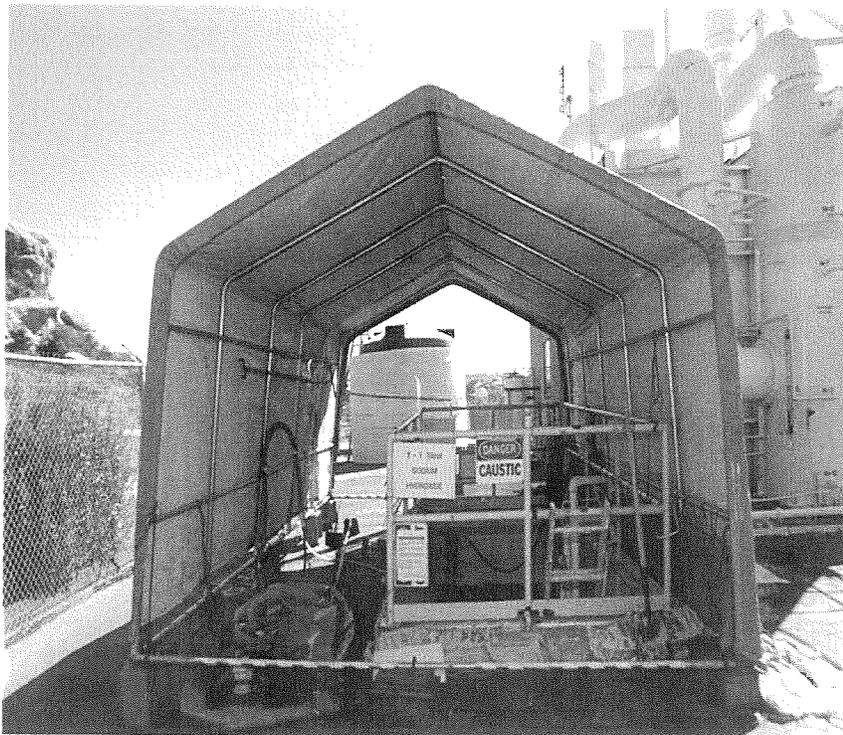


Photo 5 (Left): View of
Tank T-1 area, looking
East. Tank size about 5
ft wide x 10 ft long, and
6 ft deep. Tank T-3
seen in background.

Figure 18

PHOTOS FOR HWMF - T133 AREA



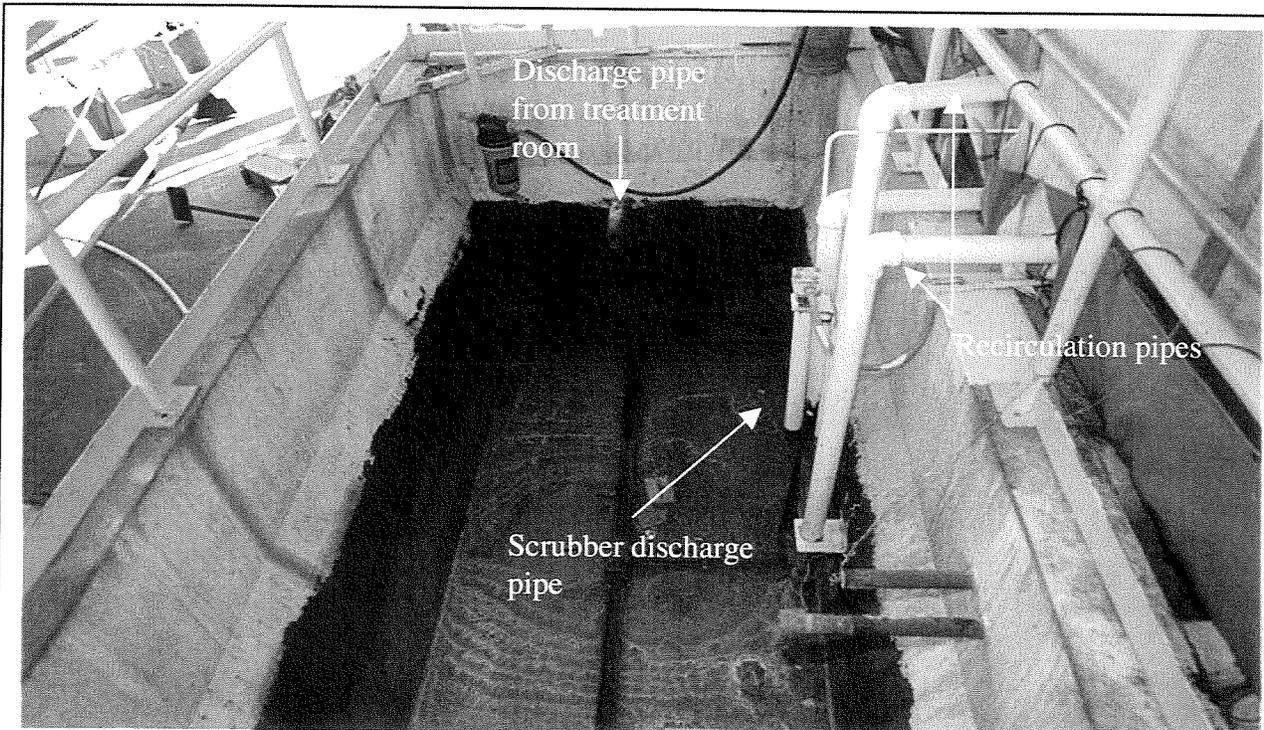


Photo 6 (Above): Detail of metal-lined tank T-1.

Photo 7 (Below): Area to the North of T133. Note topography slopes to the north.

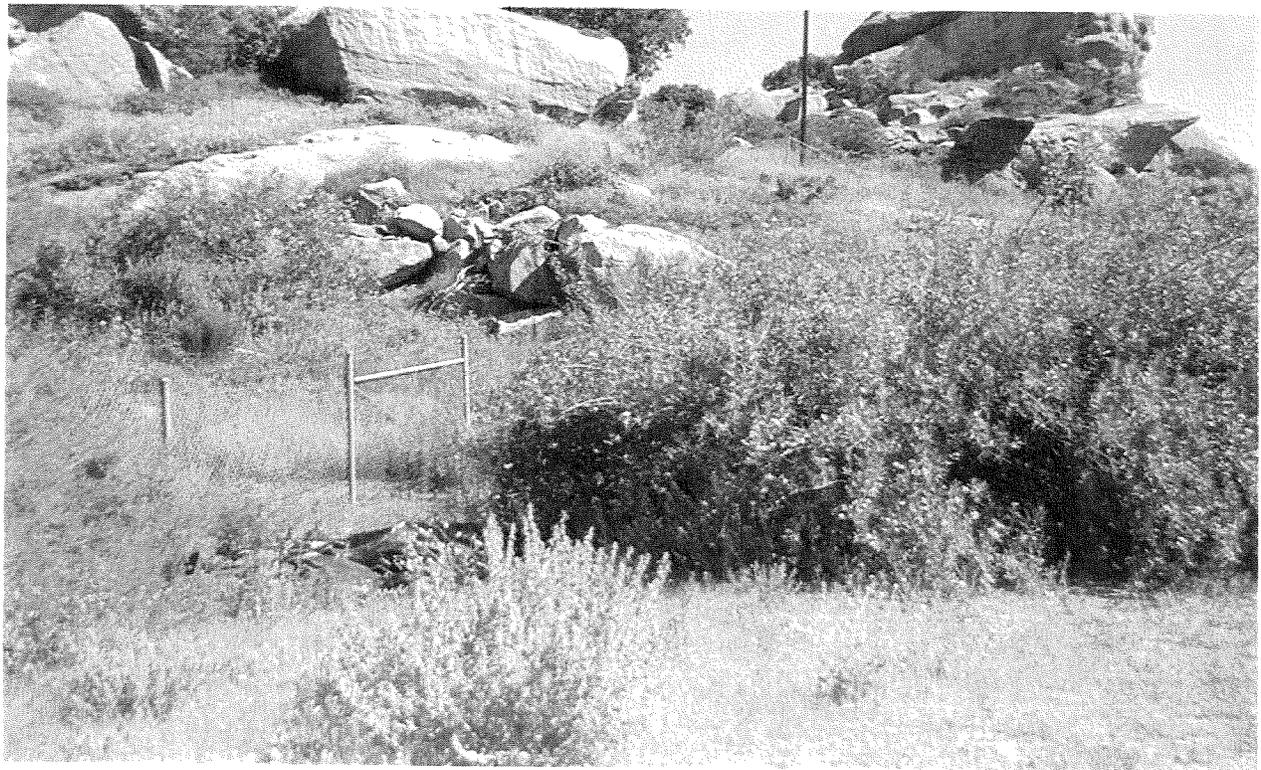
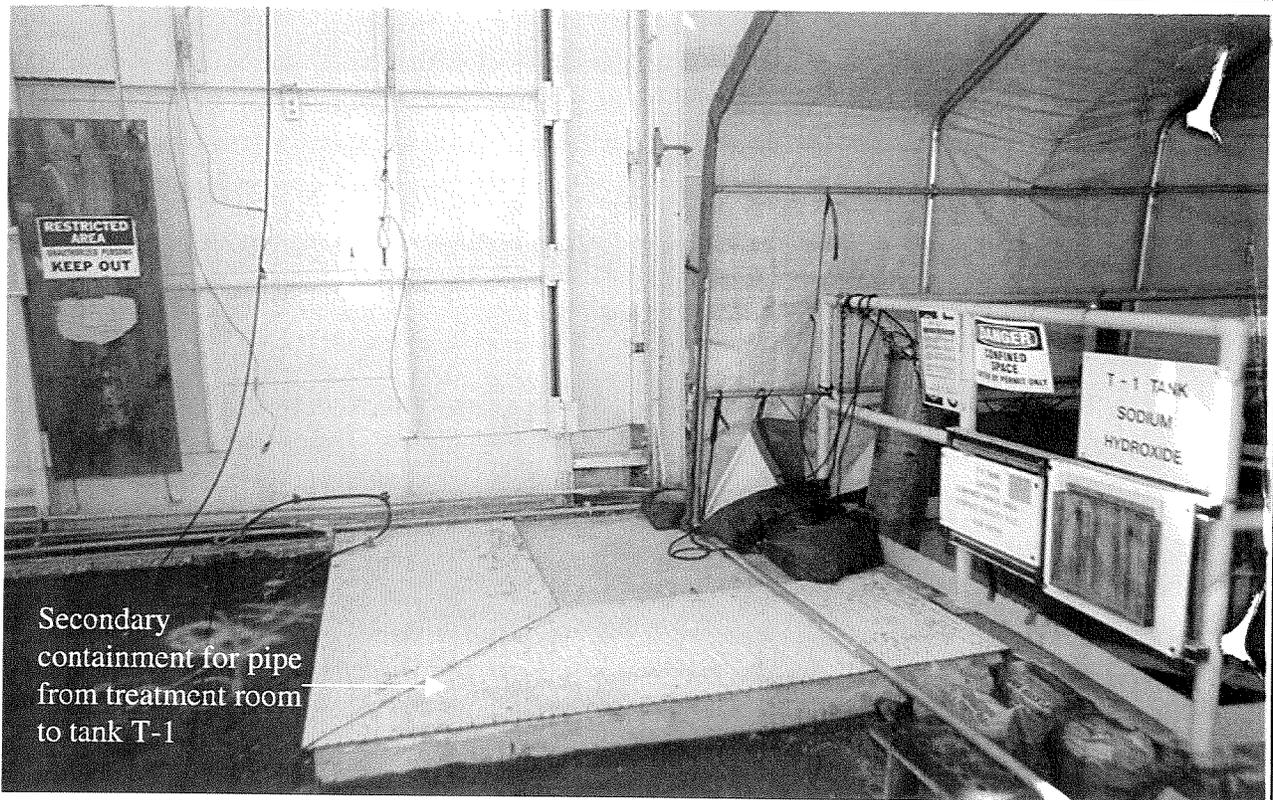


Figure 19



PHOTOS FOR HWMF - T133 AREA



Secondary containment for pipe from treatment room to tank T-1

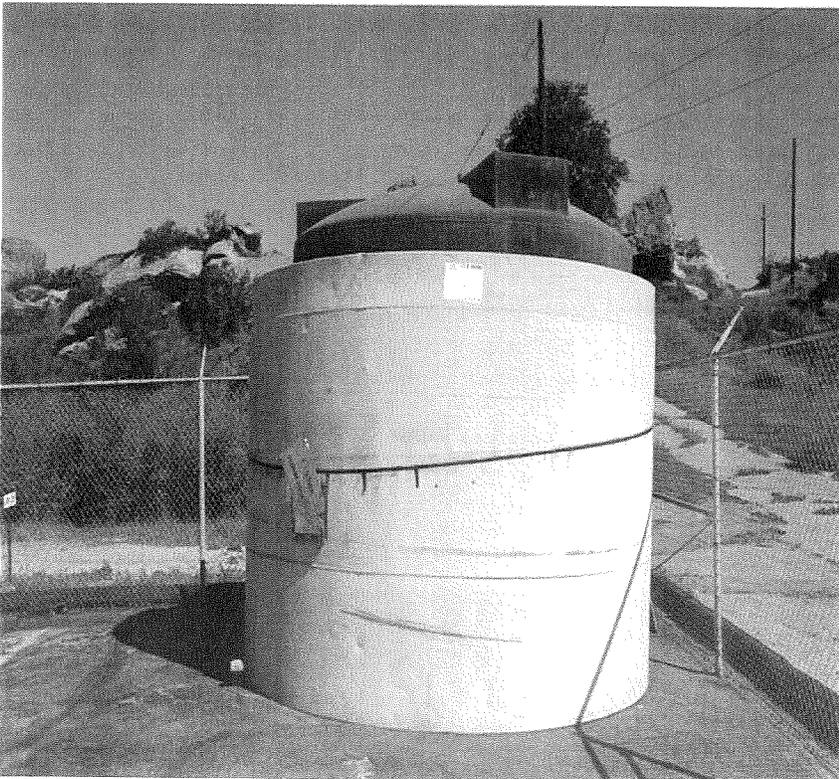


Photo 8 (Above): Secondary containment for pipe from treatment chamber to tank T-1 (looking south).

Photo 9 (Left): View of tank T-3 (tank and secondary containment, looking north).

Figure 20

PHOTOS FOR HWMF - T133 AREA





Photo 10 (Left): View inside treatment chamber. Note that for examination of the area, the items located in the treatment room, such as burners, treatment bowl, and the metal liner have been moved from their original locations. The treatment bowl is presented upside down.

Photo 11 (Right): Sump towards northwestern area of treatment chamber. Size of sump is 16 inches x 21 inches and 27 inches deep.



Figure 21



PHOTOS FOR HWMF - T133 AREA

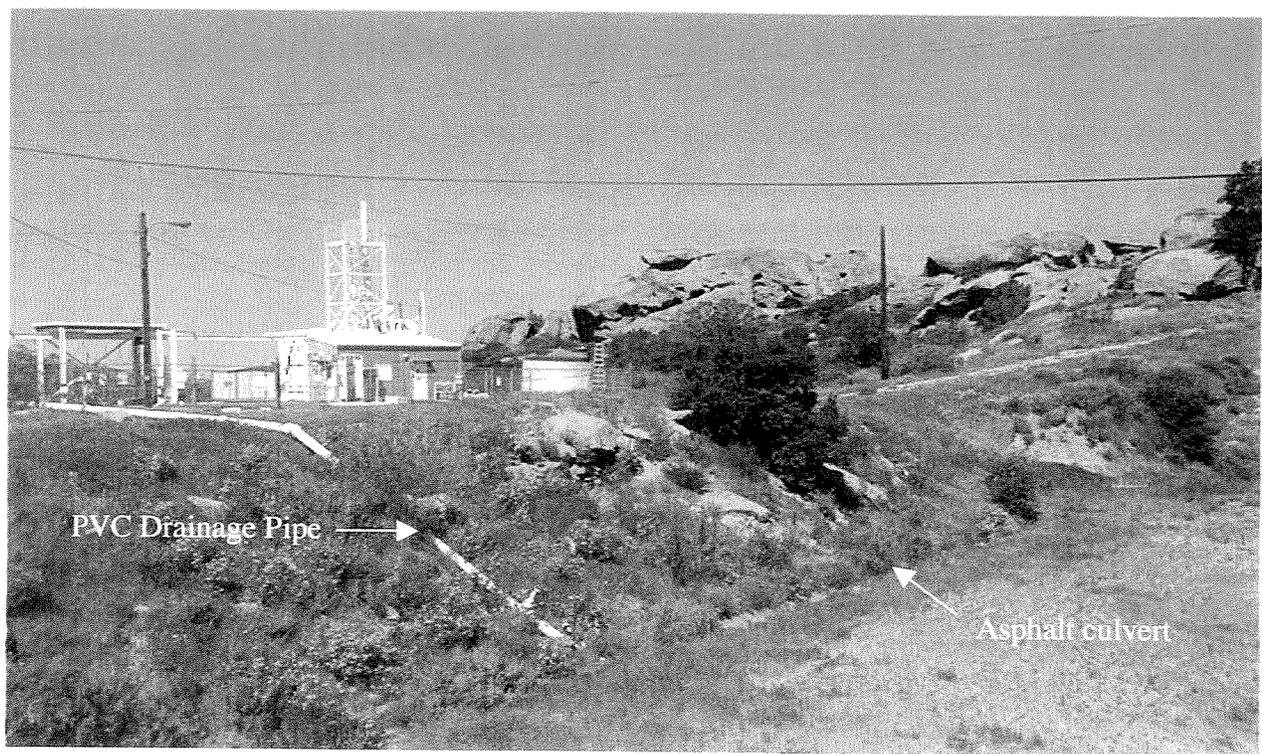


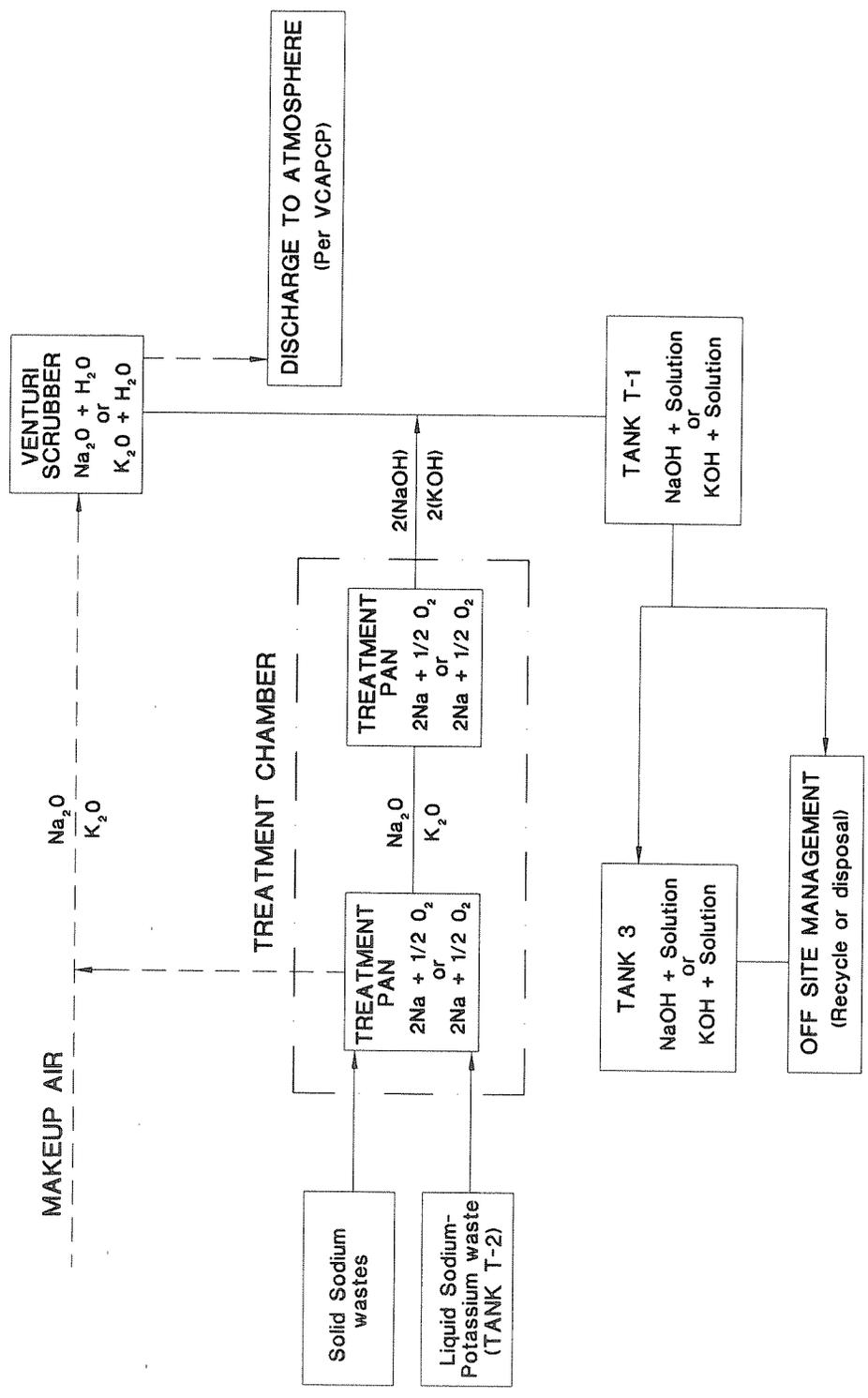
Photo 12 (Above): Area East of building T133, drainage line and drainage ditch looking west.
Photo 13 (Below): Culvert, East of building T133.



Figure 22



PHOTOS FOR HWMF - T133 AREA



EXPLANATION

— Liquid
 - - - Air

Na Sodium
 NaK Sodium Potassium
 NaOH Sodium Hydroxide
 KOH Potassium Hydroxide
 HWMF Hazardous Waste Management Facility
 ETEC Energy Technology Engineering Center

NOTE: ETEC is area of Operation not legal/physical boundary.



MWH
 SANTA SUSANA FIELD LABORATORY
 VENTURA COUNTY, CALIFORNIA
 SODIUM AND POTASSIUM
 TREATMENT PROCESS OVERVIEW

FIGURE 23

Boeing / Santa Susana Field Laboratory

SANTA SUSANA FIELD LABORATORY Background Sampling Locations for Fluoride, Lithium, and Zirconium

Legend

- HWMF Study Area
- Established Background Locations
- ▲ Established Background Locations to be Sampled for Fluoride, Lithium, and Zirconium

Notes:



FIGURE
24

Base Map Legend

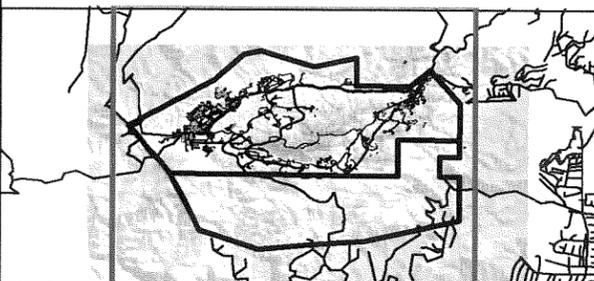
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| Removed Building or Structure | A/C Curbing |
| Other Tanks, R Indicates Removed | Dirt Road |
| Solvent Tanks, R Indicates Removed | Ponds |
| Petroleum Fuel/Oil Tanks, R Indicates Removed | Possible Ponds (approx. location) |
| Hydrazine (MMH, UDMH, HZ) Tanks, R Indicates Removed | Fences |
| Awnings | Pipes |
| Administrative Area Boundary | Creeks |
| | Rocks Outcrops |
| | Leachfield |
| | Drainage Pipe |

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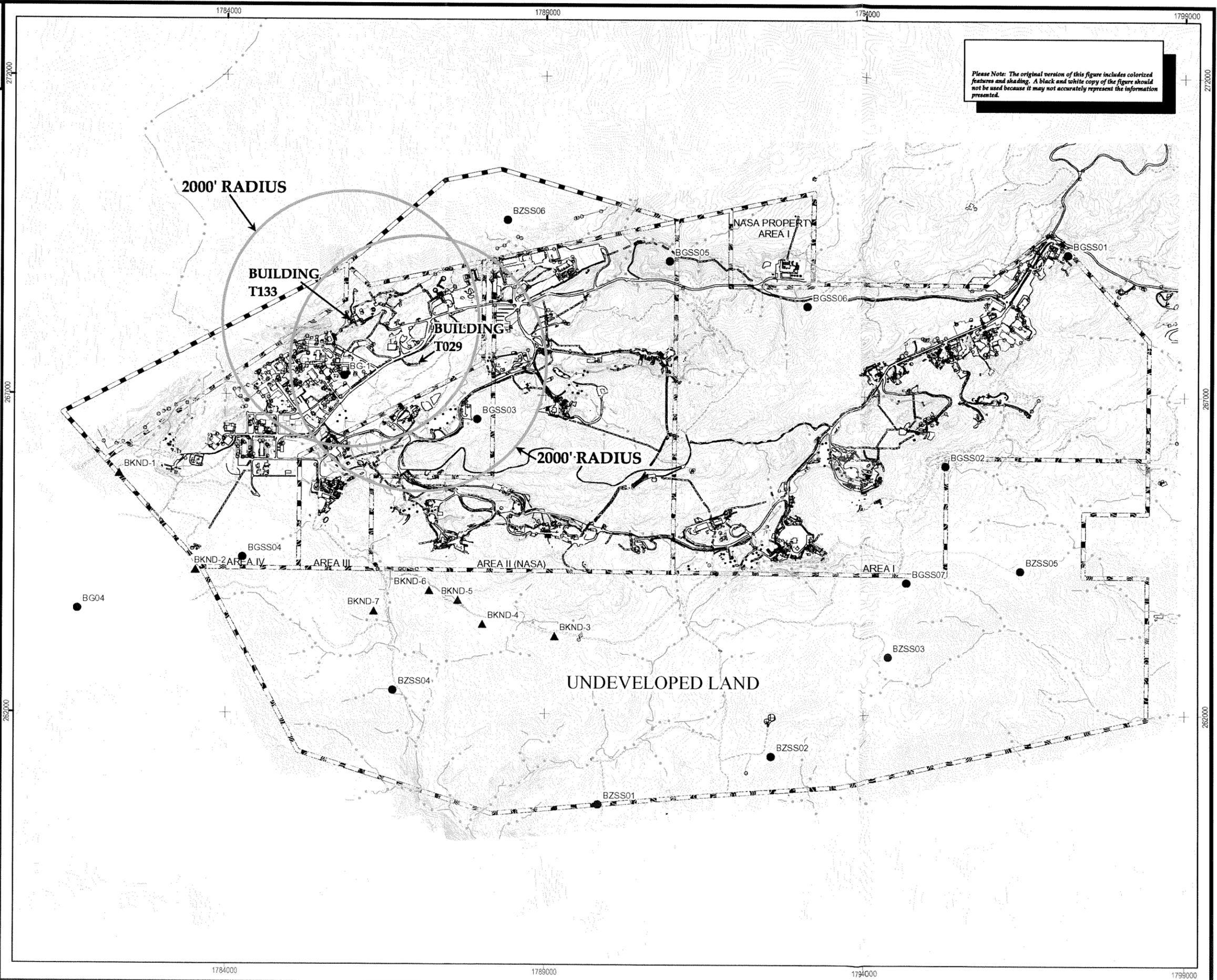
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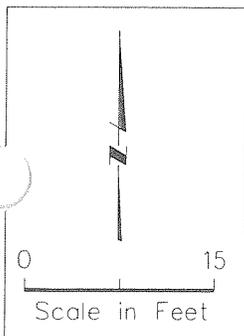
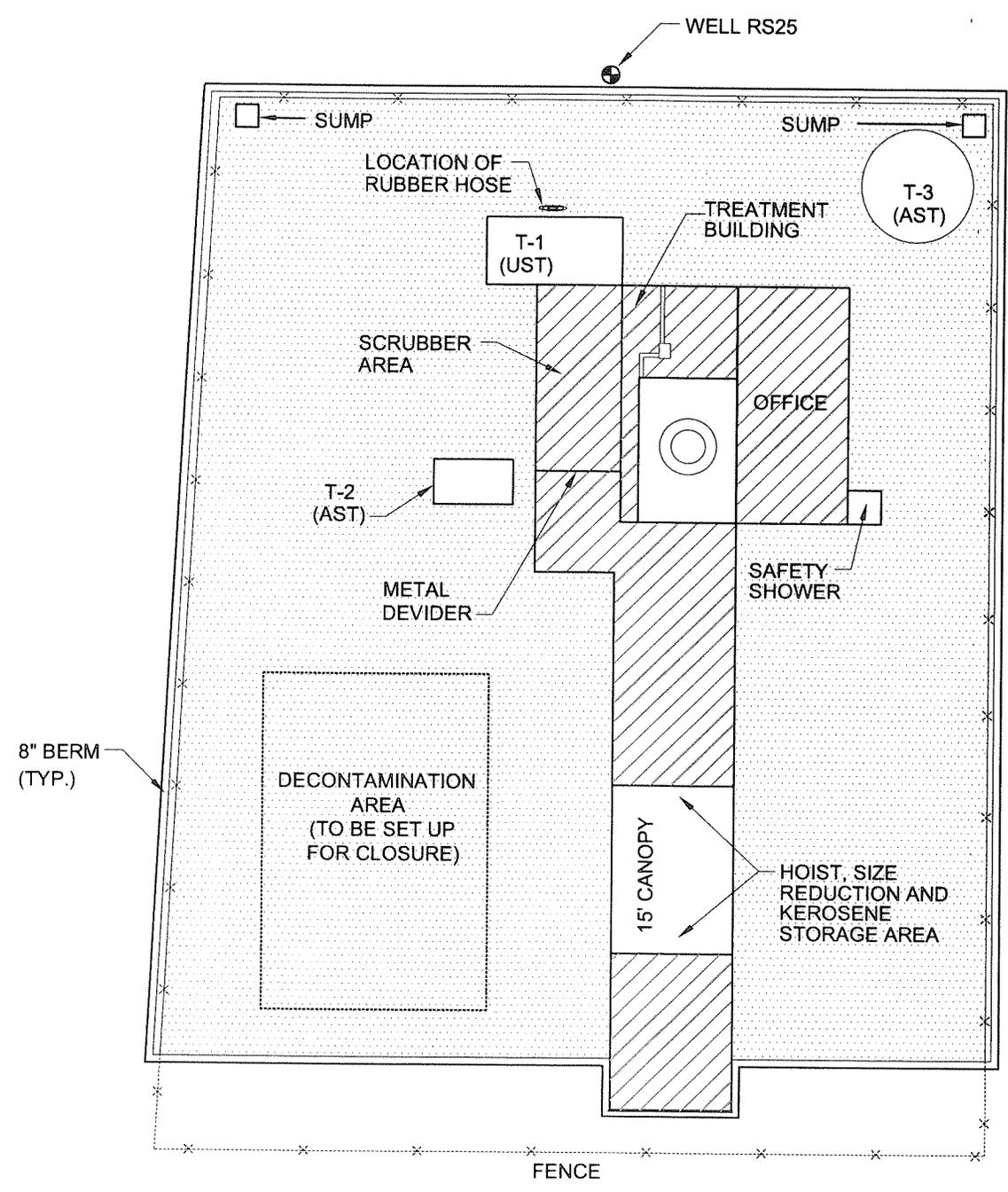
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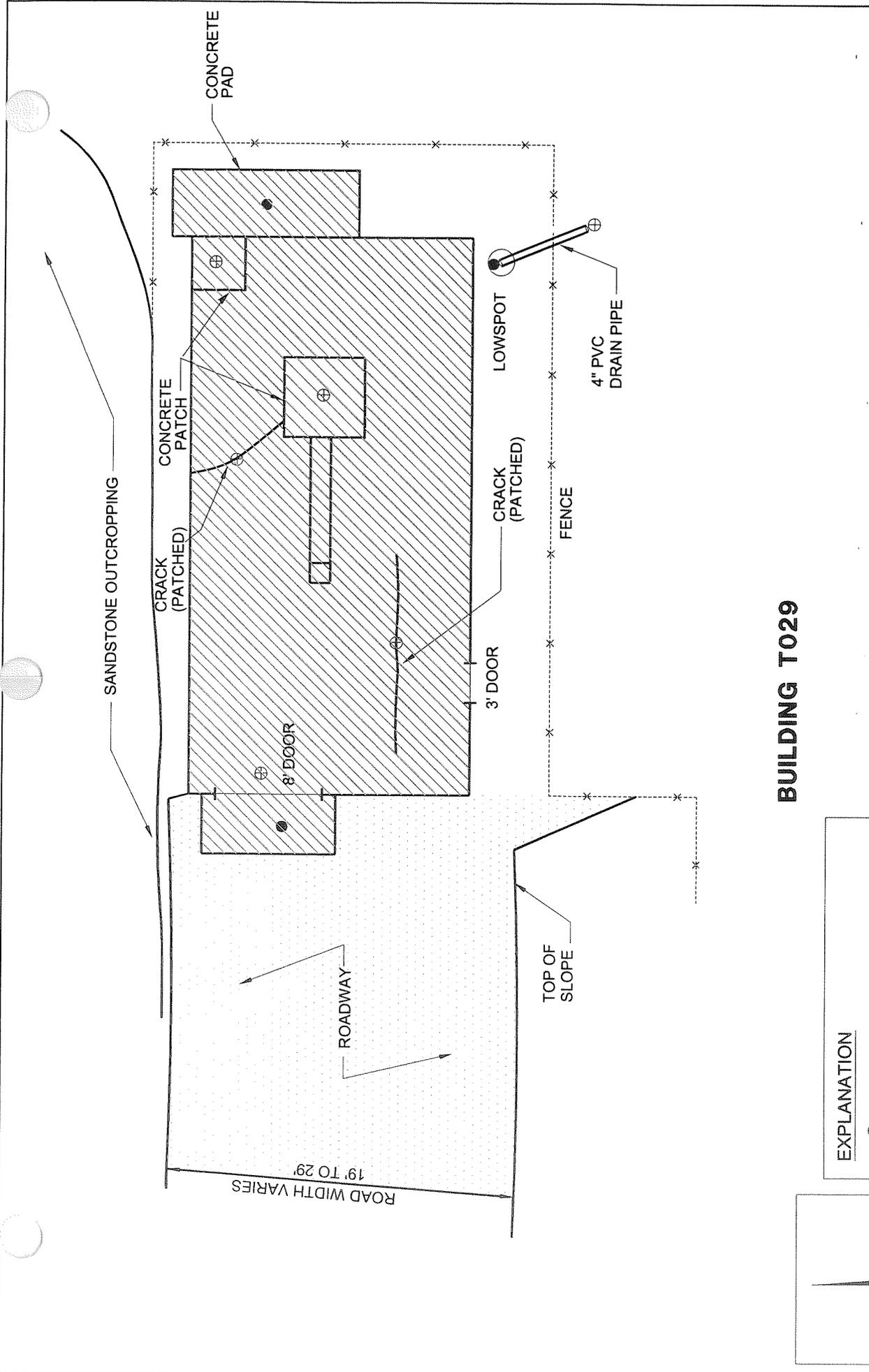


EXPLANATION	
AST	ABOVEGROUND STORAGE TANK
UST	UNDERGROUND STORAGE TANK
	CONCRETE
	ASPHALT
	FENCELINE



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 SANTA SUSANA FIELD LABORATORY
 VENTURA COUNTY, CALIFORNIA
 BUILDING T133
 DECONTAMINATION AREA

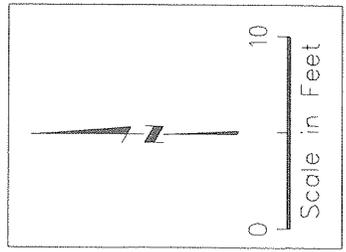
FIGURE 25



MWH
 SANTA SUSANA FIELD LABORATORY
 VENTURA COUNTY, CALIFORNIA
BUILDING T029
 SOIL AND GROUNDWATER SAMPLING
 LOCATIONS
 FIGURE 26

BUILDING T029

EXPLANATION	
⊕	GEOPROBE SOIL BORING
●	GEOPROBE SOIL AND GRAB GROUNDWATER SAMPLING
	CONCRETE
	ASPHALT
-x--x--x--	FENCELINE



Boeing / Santa Susana Field Laboratory

SANTA SUSANA FIELD LABORATORY T029 Sampling Locations on Roadway

Legend

- Sandstone Unit
- ⊕ Proposed Geoprobe Soil Boring

Notes:



FIGURE
27

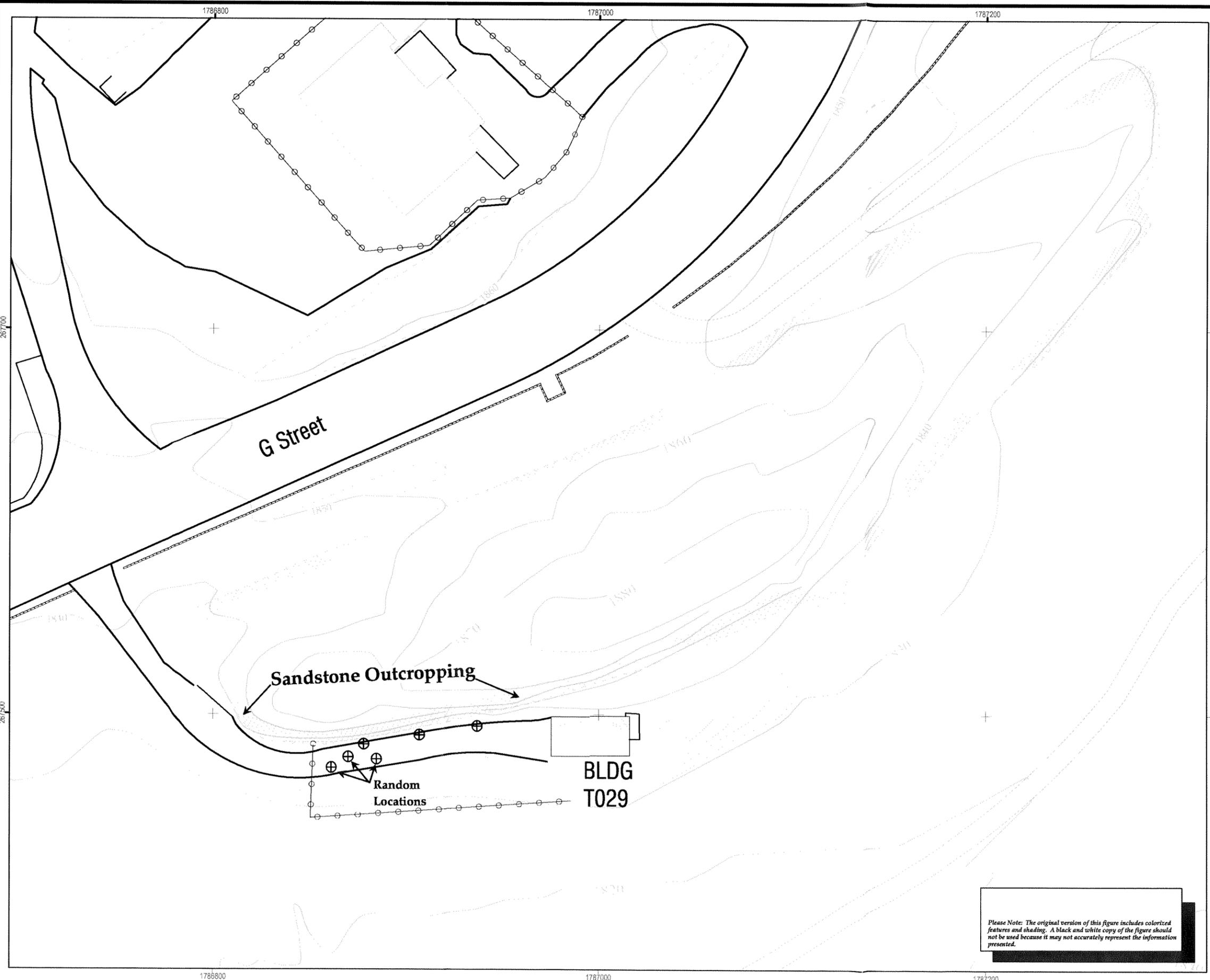
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|--|--|--|-----------------------------------|
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| | Removed Building or Structure | | A/C Curbing |
| | Other Tanks, R Indicates Removed | | Dirt Road |
| | Solvent Tanks, R Indicates Removed | | Ponds |
| | Petroleum Fuel/Oil Tanks, R Indicates Removed | | Possible Ponds (approx. location) |
| | Hydrazine (MMH, UDMH, HZ) Tanks, R Indicates Removed | | Fences |
| | Awnings | | Pipes |
| | Administrative Area Boundary | | Creeks |
| | | | Rocks Outcrops |
| | | | Leachfield |
| | | | Drainage Pipe |

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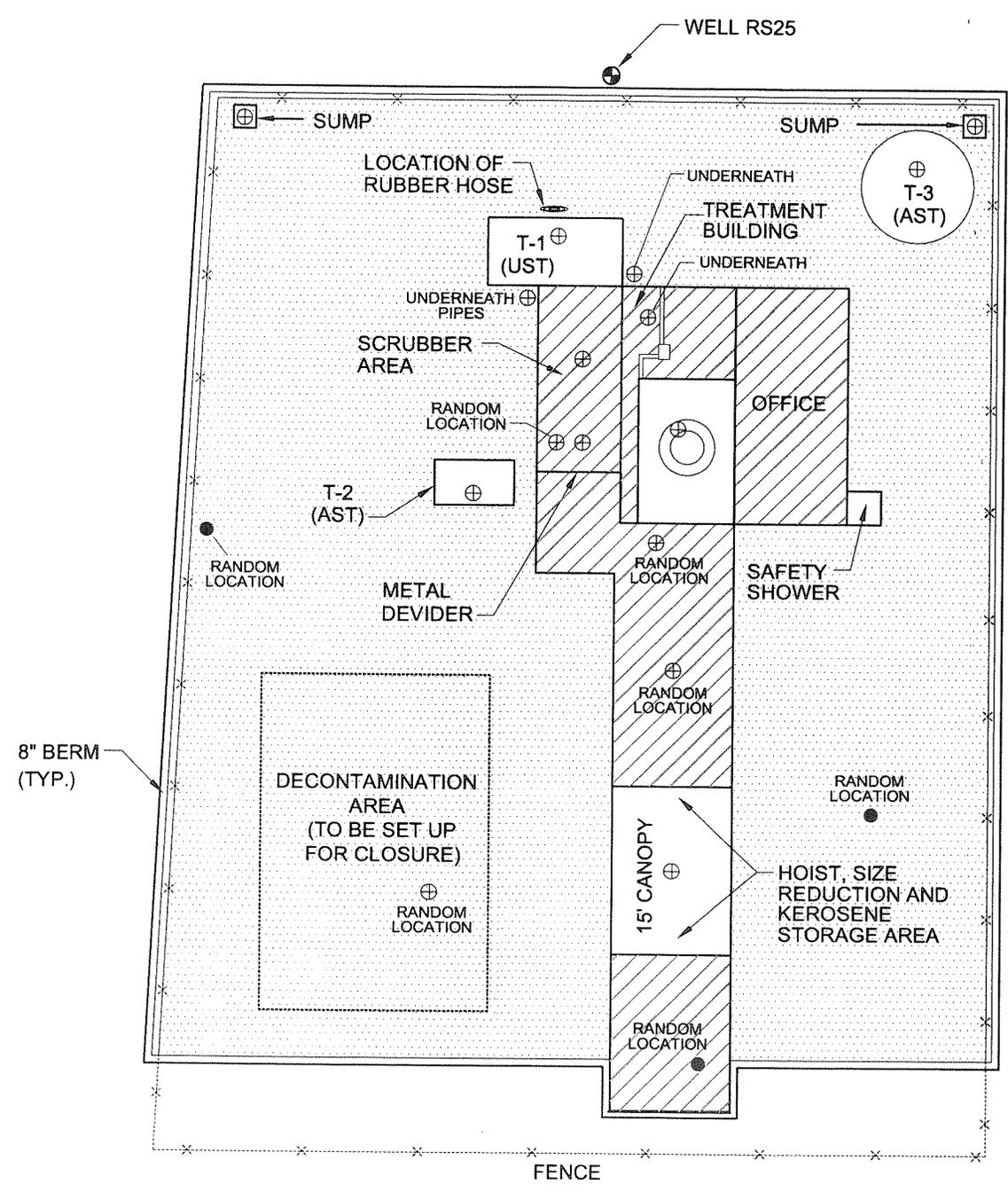


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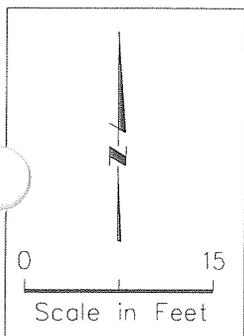
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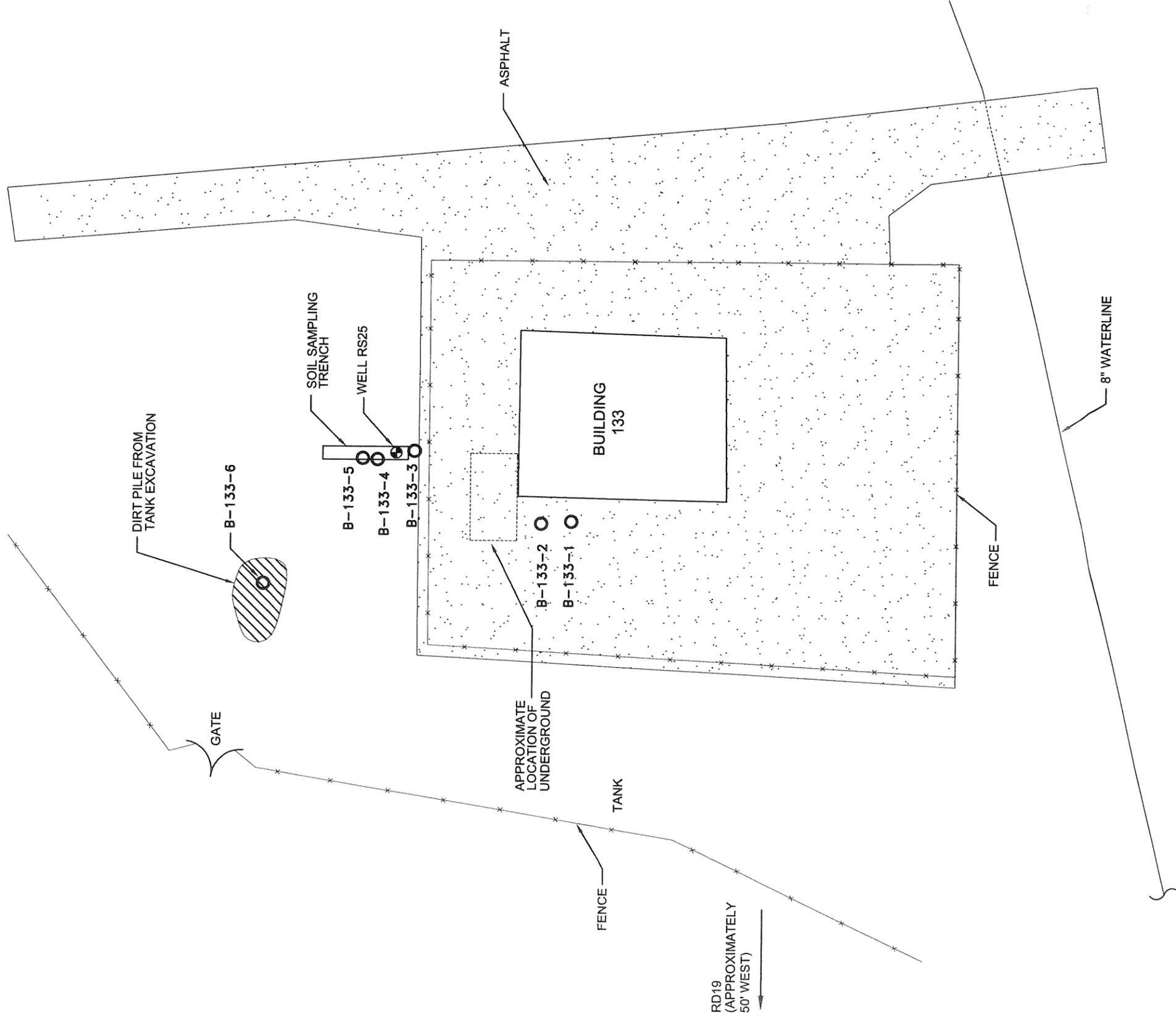


EXPLANATION

⊕	GEOPROBE SOIL BORING
●	GEOPROBE SOIL AND GRAB GROUNDWATER SAMPLING
⊕	MONITORING WELL LOCATION
AST	ABOVEGROUND STORAGE TANK
UST	UNDERGROUND STORAGE TANK
	CONCRETE
	ASPHALT
-x-x-x-	FENCELINE



MWH
 SANTA SUSANA FIELD LABORATORY
 VENTURA COUNTY, CALIFORNIA
 BUILDING T133
 SOIL AND GROUNDWATER
 SAMPLE LOCATIONS
 FIGURE 28

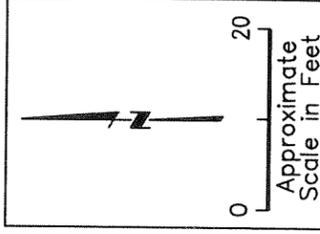


EXPLANATION

- K POTASIUM
- Na SODIUM
- ⊕ MONITORING WELL
- SOIL BORING SAMPLE
- x-x- FENCELINE

NOTE:

- 1) ALL RESULTS IN mg/kg.
- 2) ONLY COMPOUNDS DETECTED ABOVE REPORTING LIMITS ARE INCLUDED IN THIS FIGURE.



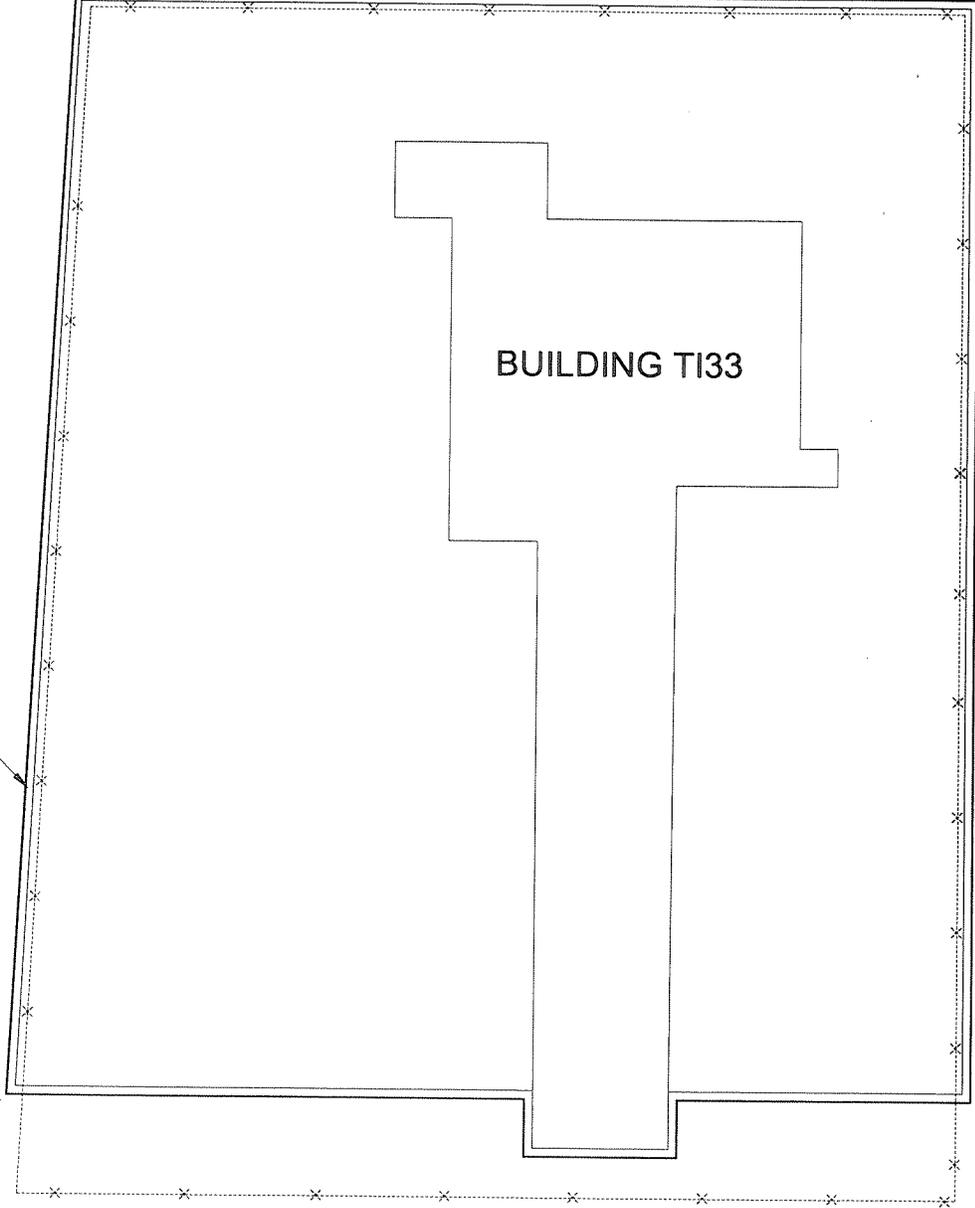
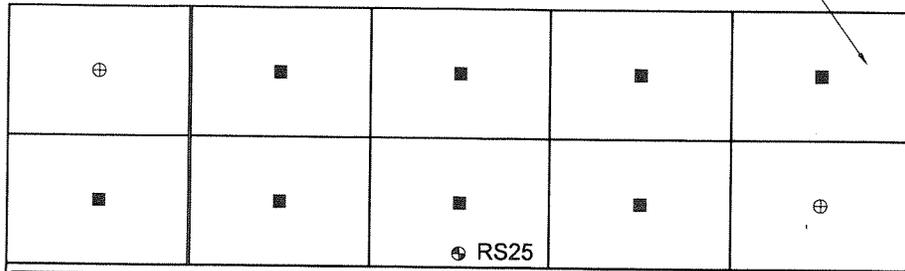
MWH
 SANTA SUSANA FIELD LABORATORY
 VENTURA COUNTY, CALIFORNIA

1988 BUILDING T133
 INVESTIGATION DATA FOR SOIL

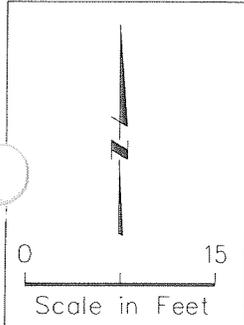
FIGURE 29

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LEVEL AREA



8" BERM (TYP.)



EXPLANATION	
⊕	GEOPROBE SOIL BORING
■	HAND AUGER BORING
⊕	MONITORING WELL LOCATION
AST	ABOVEGROUND STORAGE TANK
UST	UNDERGROUND STORAGE TANK
-x-x-x-	FENCELINE


MWH
 SANTA SUSANA FIELD LABORATORY
 VENTURA COUNTY, CALIFORNIA

 SOIL SAMPLING LOCATIONS
 NORTH OF T133 AREA

 FIGURE 30

Boeing / Santa Susana Field Laboratory

SANTA SUSANA FIELD LABORATORY T133 Sampling for PVC Drainage Pipe and Asphalt Culvert

Legend

- Monitoring Wells
- Proposed Hand Auger Soil Boring
- ⊕ Proposed Geoprobe Soil Boring
- Sandstone Unit Boundary

Notes:



FIGURE
31

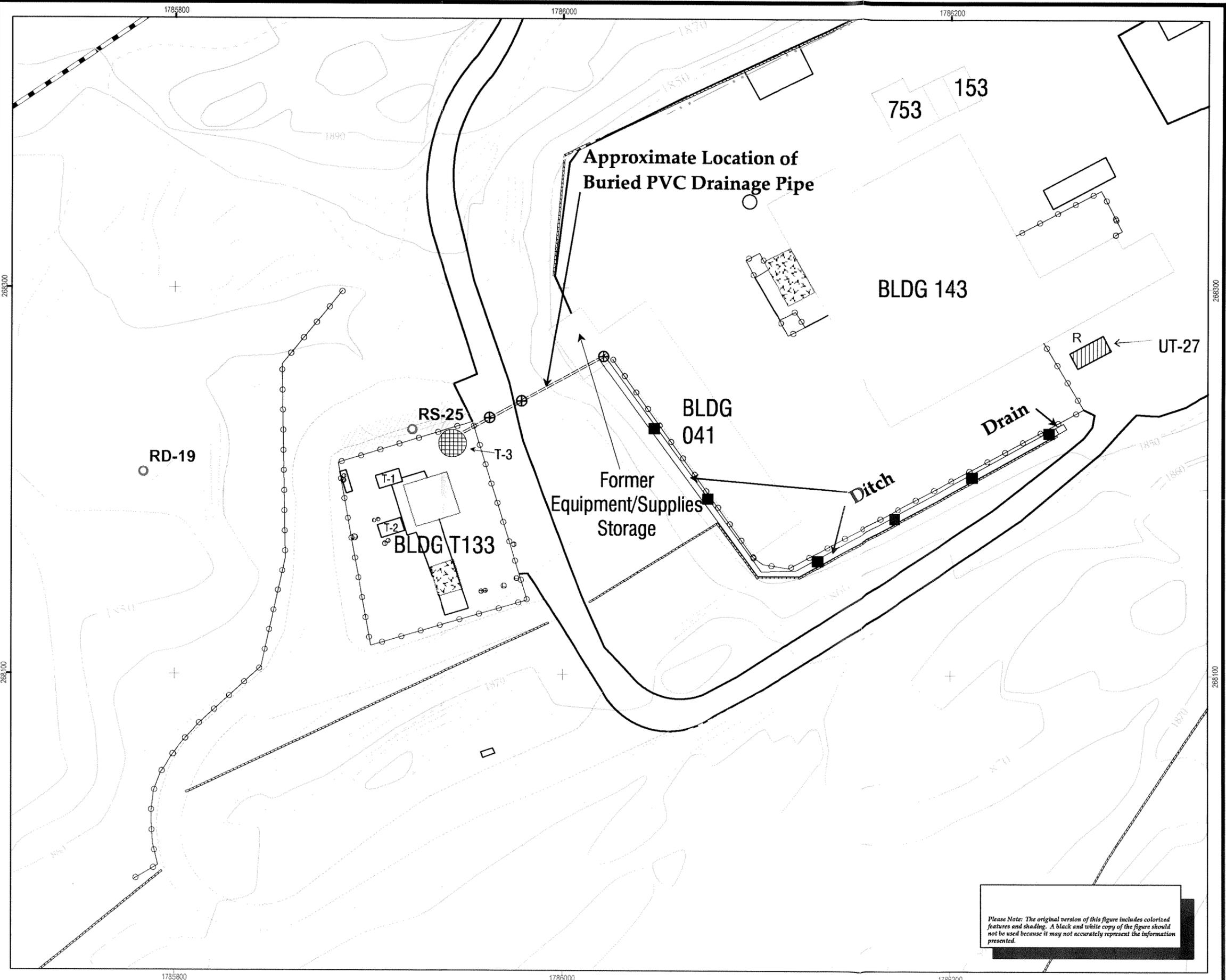
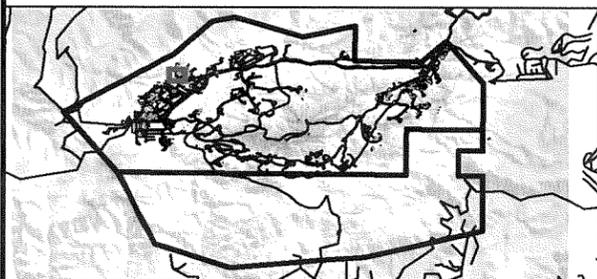
Base Map Legend

- | | | | |
|--|--|--|-----------------------------------|
| | Existing Building or Structure | | Ground Elevation Contours |
| | Removed Building or Structure | | A/C Curbing |
| | Other Tanks, R Indicates Removed | | Dirt Road |
| | Solvent Tanks, R Indicates Removed | | Ponds |
| | Petroleum Fuel/Oil Tanks, R Indicates Removed | | Possible Ponds (approx. location) |
| | Hydrazine (MMH, UDMH, HZ) Tanks, R Indicates Removed | | Fences |
| | Awnings | | Pipes |
| | Administrative Area Boundary | | Creeks |
| | | | Rocks Outcrops |
| | | | Leachfield |
| | | | Drainage Pipe |

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0 50
FEET



Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.