

**Class 1 Permit Modification Notification**

**Update Surface and Repository Figures and Flowsheets**

**Waste Isolation Pilot Plant  
Carlsbad, New Mexico**

**WIPP HWFP #NM4890139088-TSDF**

## Table of Contents

Table of Contents .....	i
Acronyms and Abbreviations .....	ii
Overview of the Permit Modification Notification .....	1
Attachment A .....	A-1
Table 1. Class 1 Hazardous Waste Facility Permit Modification Notification .....	A-2
Item 1 .....	A-3
Description .....	A-3
Basis .....	A-3
Discussion .....	A-3
Revised Permit Text .....	A-3
Attachment B .....	B-1

## **Acronyms and Abbreviations**

CBFO	Carlsbad Field Office
CFR	Code of Federal Regulations
DOE	Department of Energy
HWFP	Hazardous Waste Facility Permit
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
PMN	Permit Modification Notification
RCRA	Resource Conservation and Recovery Act
TSDf	Treatment, Storage and Disposal Facility
WIPP	Waste Isolation Pilot Plant
WTS	Washington TRU Solutions LLC

## Overview of the Permit Modification Notification

This document contains one Class 1 Permit Modification Notification (**PMN**) to the Hazardous Waste Facility Permit (**HWFP**) at the Waste Isolation Pilot Plant (**WIPP**), Permit Number NM4890139088-TSDF hereinafter referred to as the WIPP HWFP.

This PMN is being submitted by the U.S. Department of Energy (**DOE**), Carlsbad Field Office (**CBFO**) and Washington TRU Solutions LLC (**WTS**), collectively referred to as the Permittees, in accordance with the WIPP HWFP, Condition I.B.1 (20.4.1.900 New Mexico Administrative Code (**NMAC**) incorporating Title 40 of the Code of Federal Regulations (40 **CFR**) §270.42(a)). The PMN in this document is necessary to notify the New Mexico Environment Department (**NMED**) of updates to figures related to surface structures, repository activities and flowsheets. This change does not reduce the ability of the Permittees to provide continued protection to human health and the environment.

The requested modification to the WIPP HWFP and related supporting documents are provided in this PMN. The proposed modification to the text of the WIPP HWFP has been identified using a double underline and revision bar in the right hand margin for added information, and a ~~strikeout~~ font for deleted information. All direct quotations are indicated by italicized text.

**Attachment A**

**Description of the Class 1 Permit Modification Notification**

**Table 1. Class 1 Hazardous Waste Facility Permit Modification Notification**

<b>No.</b>	<b>Affected Permit Section</b>	<b>Item</b>	<b>Category</b>	<b>Attachment A Page #</b>
1	a. Attachment F b. Attachment G c. Attachment M1 d. Attachment M2 e. Attachment O	Update figures and flowsheets	A.1	A-3

## Item 1

### Description:

Revise the HWFP to update figures and flowsheets to reflect actual structures, operations and activities at the WIPP facility.

### Basis:

The change is administrative and informational in nature and is therefore a Class 1 notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, Appendix I, A.1).

### Discussion:

Due to the changing trailer configurations, new building installation, the addition of additional configurations for placement of magnesium oxide, and clarifications on activities at the WIPP several figures and flowsheets must be updated. These include:

- Figure F-1 - Update surface structures
- Figure F-1a - Update structure numbers
- Figure F-6 - Update surface structures for the fire water distribution figure
- Figure F-8 has already been updated in a recent Class 1
- Figure G-2 - Update surface structures on traffic flow diagram
- Figure M1-2 - Revise to show new magnesium oxide (MgO) storage building
- Figure M1-13 -Change description of backfill emplacement and delete approximate times.
- Figure M2-5 - Change legend on figure
- Figure M2-5a -New figure to show anticipated MgO emplacement configurations
- Figure M2-8 - Add footnote to indicate where emplacement of MgO will occur
- Figure M2-12 -Change description of backfill emplacement and delete approximate times
- Figure O3-4 - Revise to show new MgO storage building

### Revised Permit Text:

- a.1. All revised figures are shown in Attachment B

**Attachment B**

Revised Figures



**FACILITIES, USAGE AND STRUCTURE NUMBERS**

BLDG/ FAC.	DESCRIPTION
#	
#241	EQUIPMENT SHED
#242	GUARDSHACK
#243	SALT HANDLING TRUCK SHELTER
#253	13.8 KV SWITCHGEAR 25P-SWG15/1
#254.1	AREA SUBSTATION NO. 1 25P-SW15.1
#254.2	AREA SUBSTATION NO. 2 25P-SW15.2
#254.3	AREA SUBSTATION NO. 3 25P-SW15.3
#254.4	AREA SUBSTATION NO. 4 25P-SW15.4
#254.5	AREA SUBSTATION NO. 5 25P-SW15.5
#254.6	AREA SUBSTATION NO. 6 25P-SW15.6
#254.7	AREA SUBSTATION NO. 7 25P-SW15.7
#254.8	AREA SUBSTATION NO. 8 25P-SW15.8
#254.9	480V SWITCHGEAR (25P-SBD04/4)
#255.1	BACK-UP DIESEL GENERATOR #1 25-PE-503
#255.2	BACK-UP DIESEL GENERATOR #2 25-PE-504
#256.4	SWITCHBOARD #4 (25P-SBD04/4)
#311	WASTE SHAFT
#351	EXHAUST SHAFT
#361	AIR INTAKE SHAFT
#362	AIR INTAKE SHAFT/HOIST HOUSE
#363	AIR INTAKE SHAFT/WINCH HOUSE
#364	EFFLUENT MONITORING INSTRUMENT SHED A
#365	EFFLUENT MONITORING INSTRUMENT SHED B
#366	AIR INTAKE SHAFT HEADFRAME
#371	SALT HANDLING SHAFT
#372	SALT HANDLING SHAFT HEADFRAME
#384	SALT HANDLING SHAFT HOISTHOUSE
#384A	MINING OPERATIONS
#411	WASTE HANDLING BUILDING
#412	TRUPACT MAINTENANCE BUILDING
#413	EXHAUST SHAFT FILTER BUILDING
#413A	MONITORING STATION A
#414	WATER CHILLER FACILITY & BLDG
#451	SUPPORT BUILDING
#452	SAFETY & EMERGENCY SERVICES FACILITY
#453	WAREHOUSE/SHOPS BUILDING
#455	AUXILIARY WAREHOUSE BUILDING
#456	WATER PUMPHOUSE
#457	WATER TANK 25-D-001A

BLDG/ FAC.	DESCRIPTION
#	
#457	WATER TANK 25-D-001B
#458	GUARD AND SECURITY BUILDING
#459	CORE STORAGE BUILDING
#459A	SANDIA ANNEX
#463	COMPRESSOR BUILDING
#465	AUXILIARY AIR INTAKE
#468	TELEPHONE HUT
#473	ARMORY BUILDING
#474	HAZARDOUS WASTE STORAGE FACILITY
#474A	HAZARDOUS WASTE STORAGE BUILDING
#474B	HAZARDOUS WASTE STORAGE BUILDING
#474C	OIL & GREASE STORAGE BUILDING
#474D	GAS BOTTLE STORAGE BUILDING
#474E	HAZARD MATERIAL STORAGE BUILDING
#474F	WASTE OIL RETAINER
#475	GATEHOUSE
#480	VEHICLE FUEL STATION
#481	WAREHOUSE ANNEX
#482	EXHAUST SHAFT HOIST EQUIP. WAREHOUSE
#485	SULLAIR COMPRESSOR BUILDING
#486	ENGINEERING BUILDING
#489	TRAINING BUILDING
#H-16	SANDIA TEST WELL
#910	ENVIRONMENTAL MONITORING TRAILER
#TBD	MgO STORAGE SHED

BLDG/ FAC.	DESCRIPTION
#	
#918	VOC TRAILER
#918A	VOC AIR MONITORING STATION
#918B	VOC LAB TRAILER
#950	WORK CONTROL TRAILER
#951	PROCUREMENT/PURCHASING
#952	TRAILER
#965	SAMPLE LABORATORY TRAILER
#971	HUMAN RESOURCES TRAILER
#986	PUBLICATIONS & PROCEDURES TRAILER
SWR NO. 1	SWITCHRACK NO. 1
SWR NO. 2	SWITCHRACK NO. 1
SWR NO. 6	SWITCHRACK NO. 1
SWR NO. 7, 7A, 7B	SWITCHRACK NO. 7, 7A, 7B
SWR NO. 7c	SWITCHRACK NO. 7C
SWR NO. 8	SWITCHRACK NO. 8
SWR NO. 10	SWITCHRACK NO. 10
SWR NO. 11	SWITCHRACK NO. 11
SWR NO. 12	SWITCHRACK NO. 12
SWR NO. 15	SWITCHRACK NO. 15

Figure F-1a  
Legend to Figure F-1



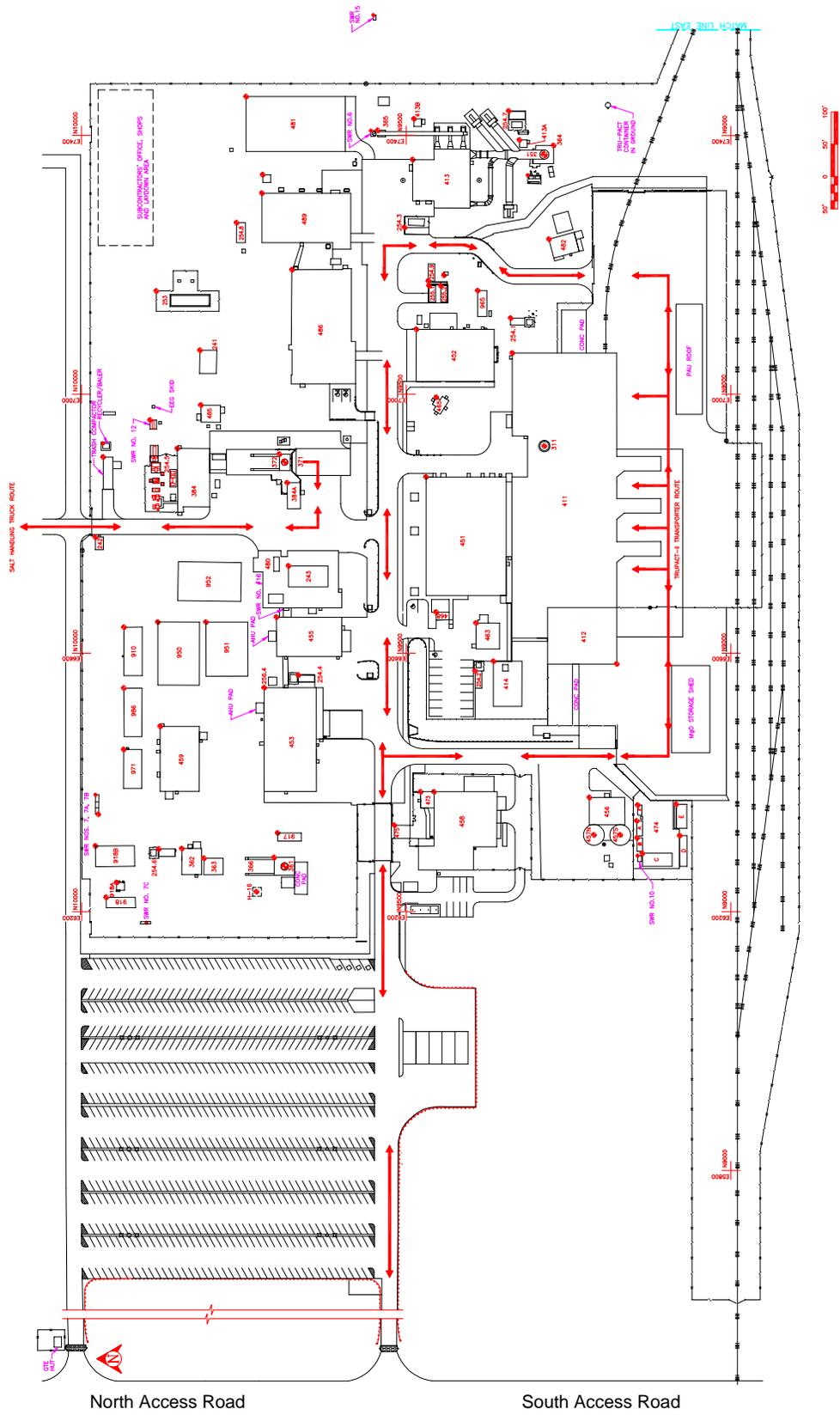


Figure G-2  
WIPP Traffic Flow Diagram

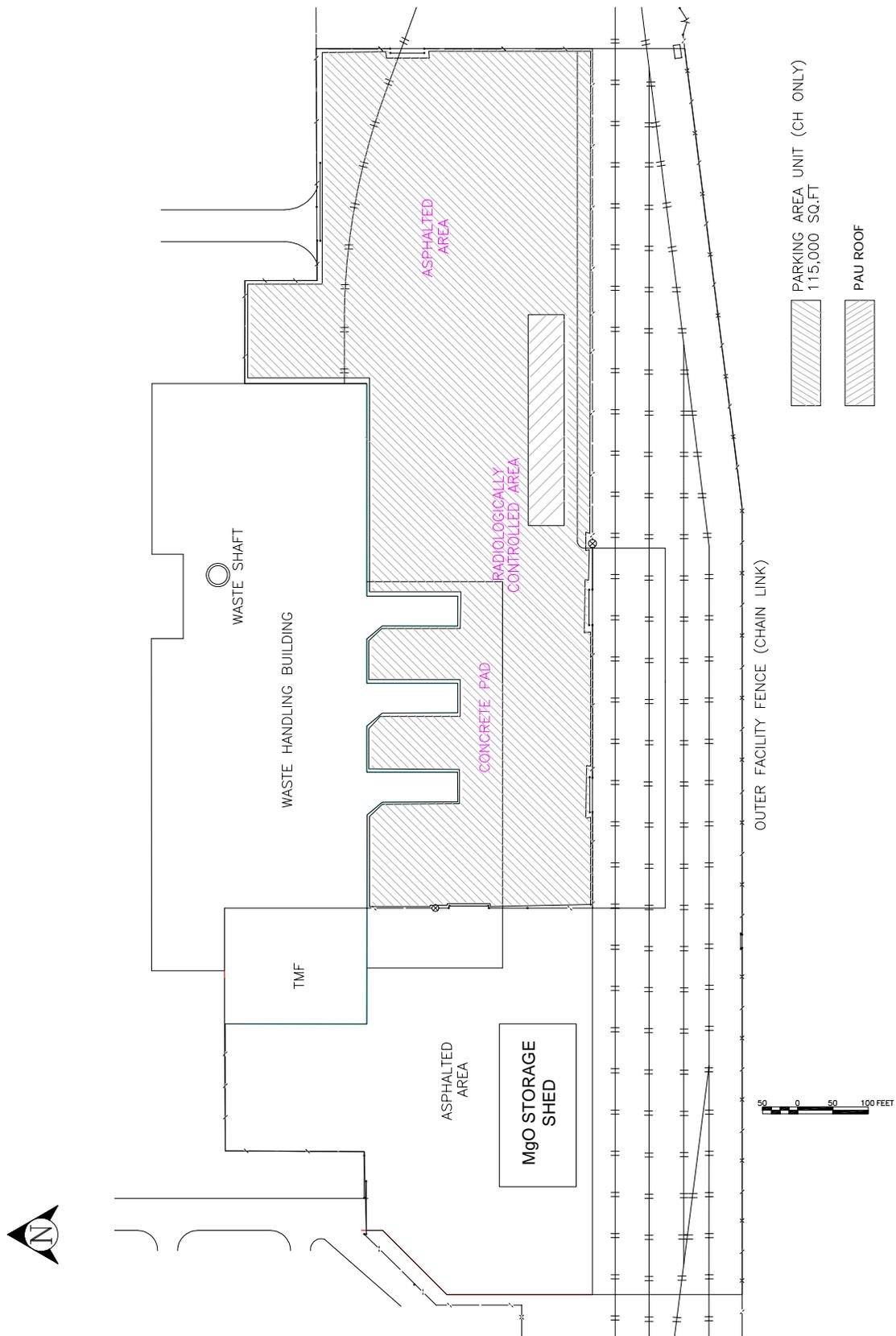


Figure M1-2  
 Parking Area - Container Storage Unit

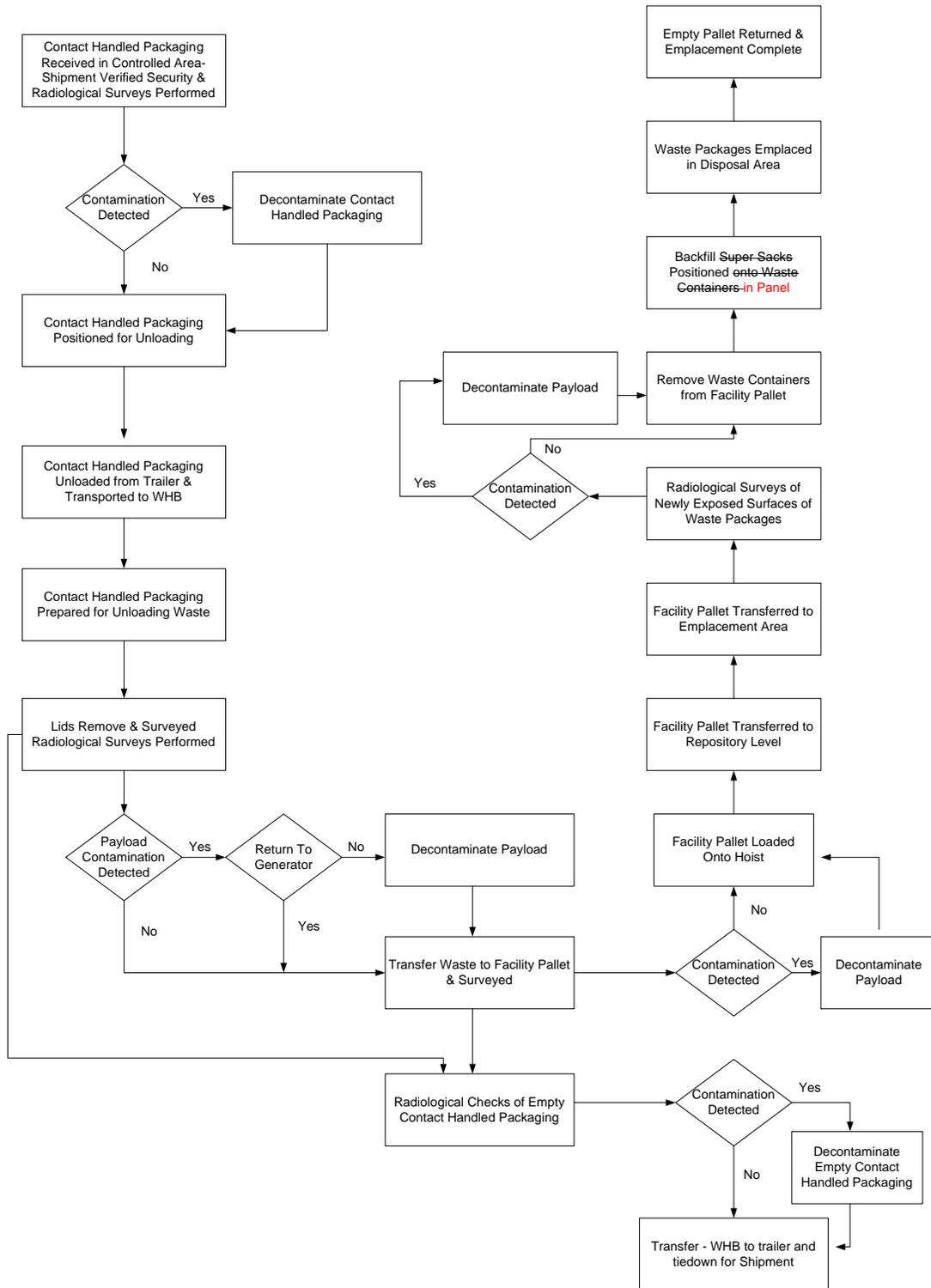


Figure M1-13  
WIPP Facility Surface and Underground CH Transuranic Mixed Waste Process Flow Diagram

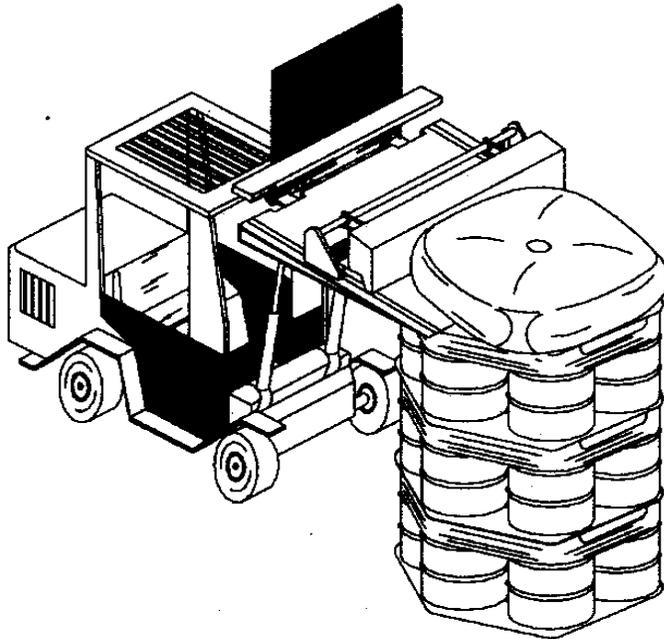
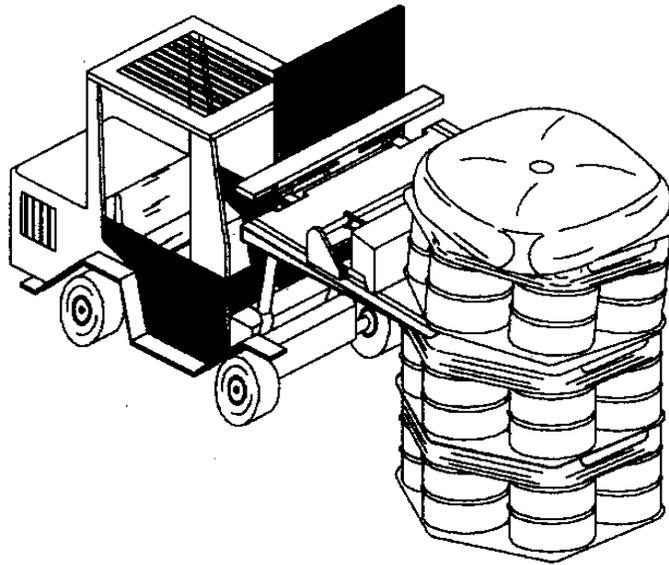


Figure M2-5  
Typical Backfill Sacks Emplaced in a Room on Drum Stacks

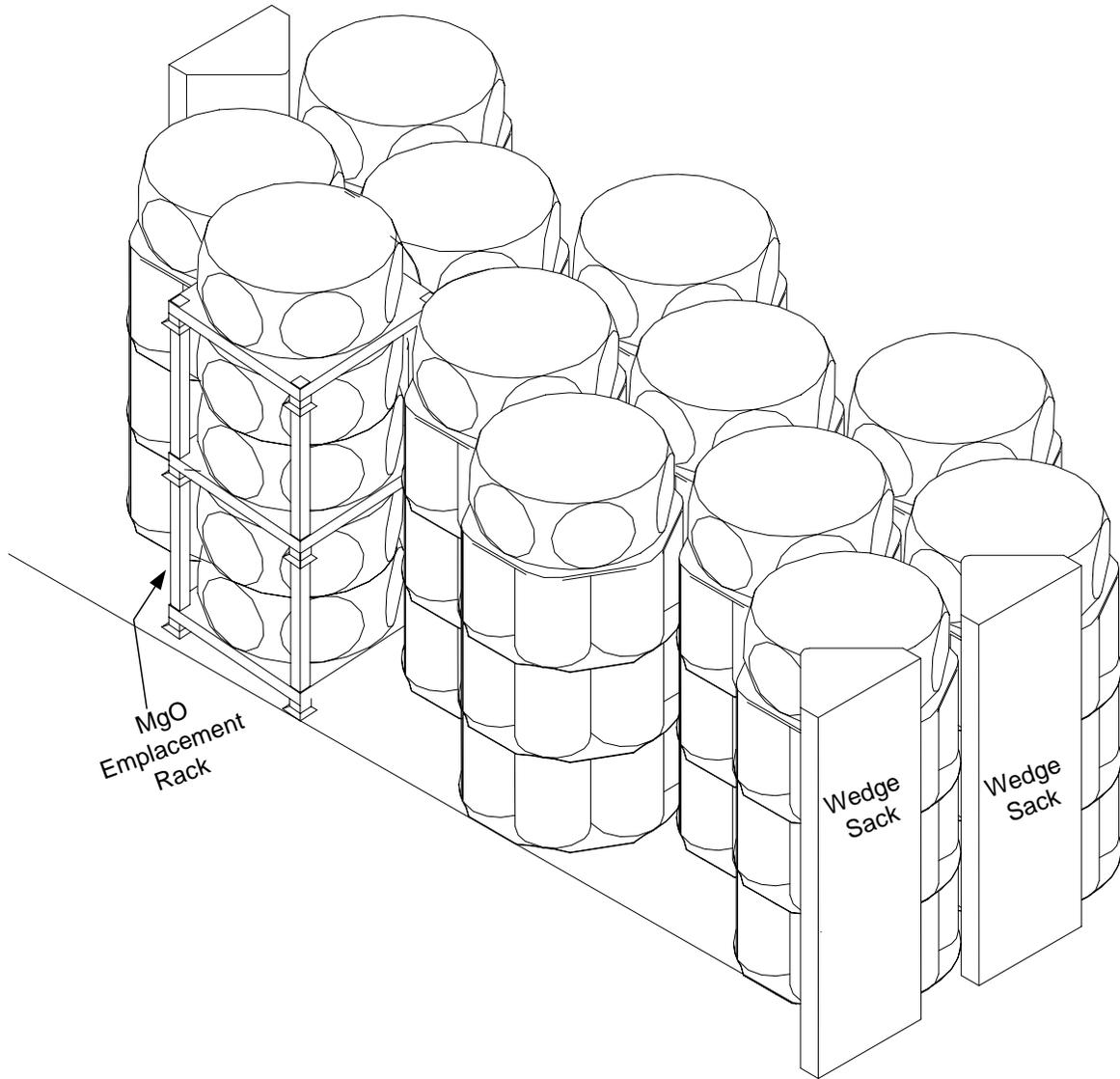


Figure M2-5a  
Potential MgO Emplacement Configurations

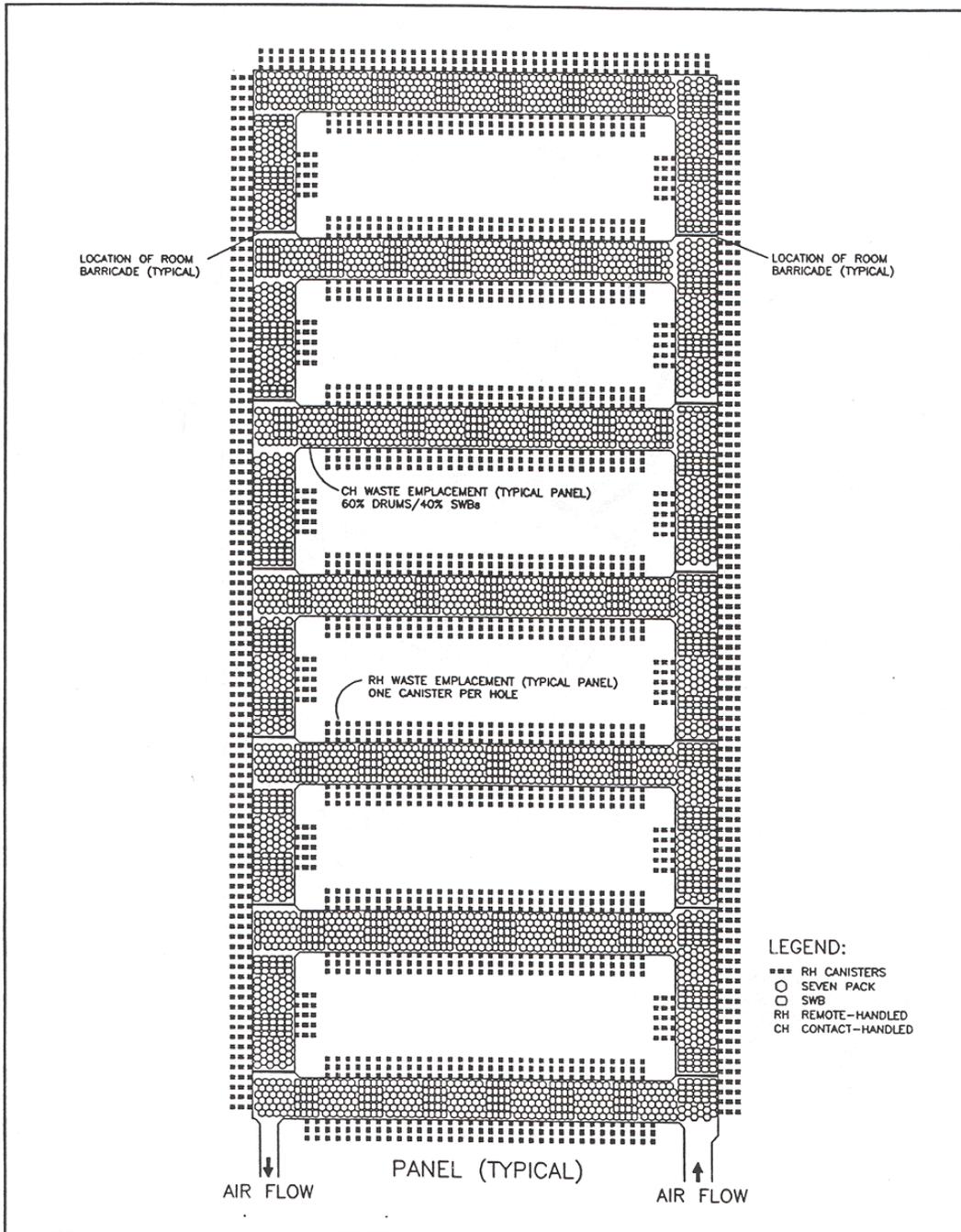


Figure M2-8  
Typical RH and CH Transuranic Mixed Waste Container Disposal Configuration

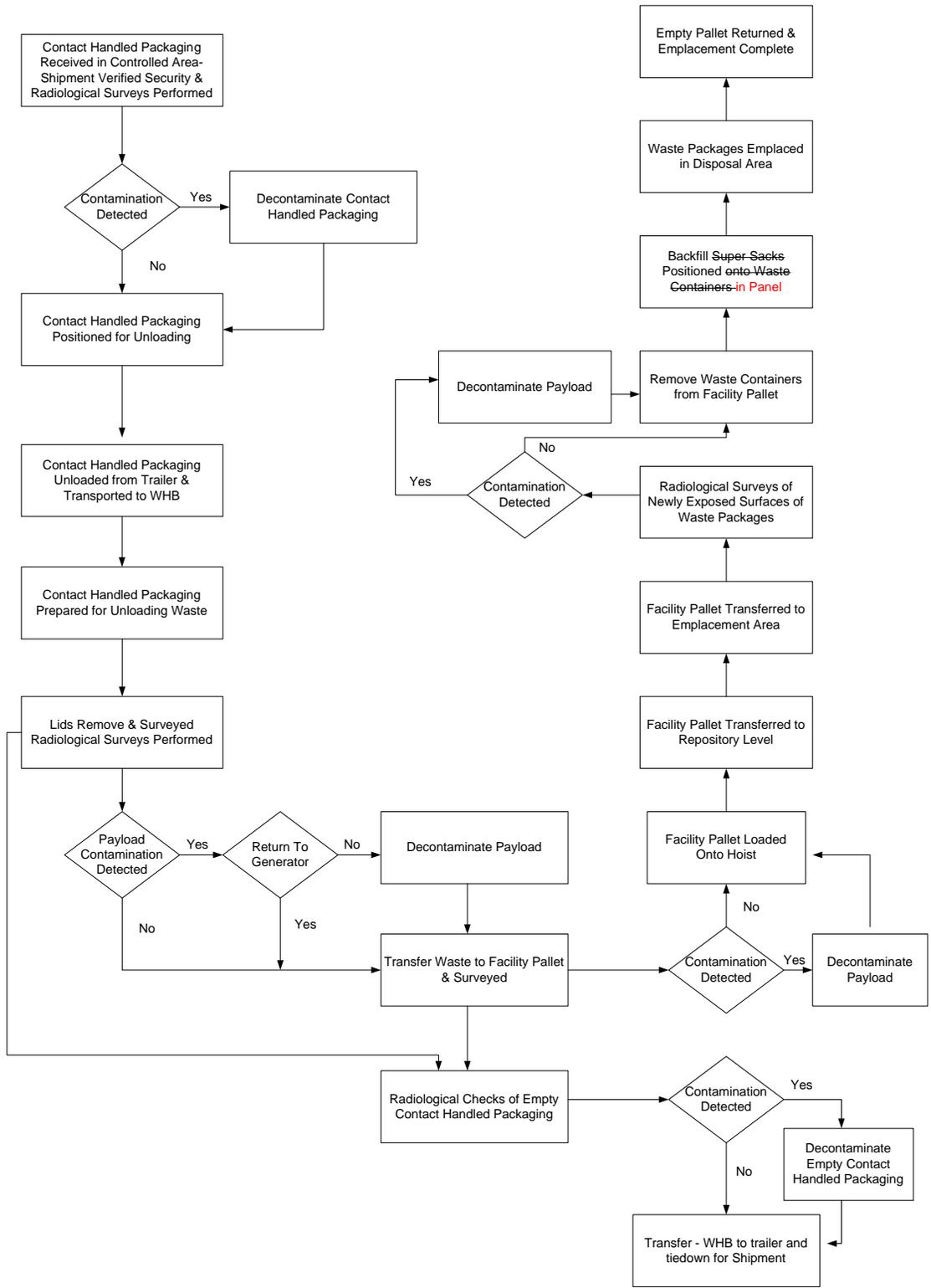


Figure M2-12  
WIPP Facility Surface and Underground CH Transuranic Mixed Waste Process Flow Diagram

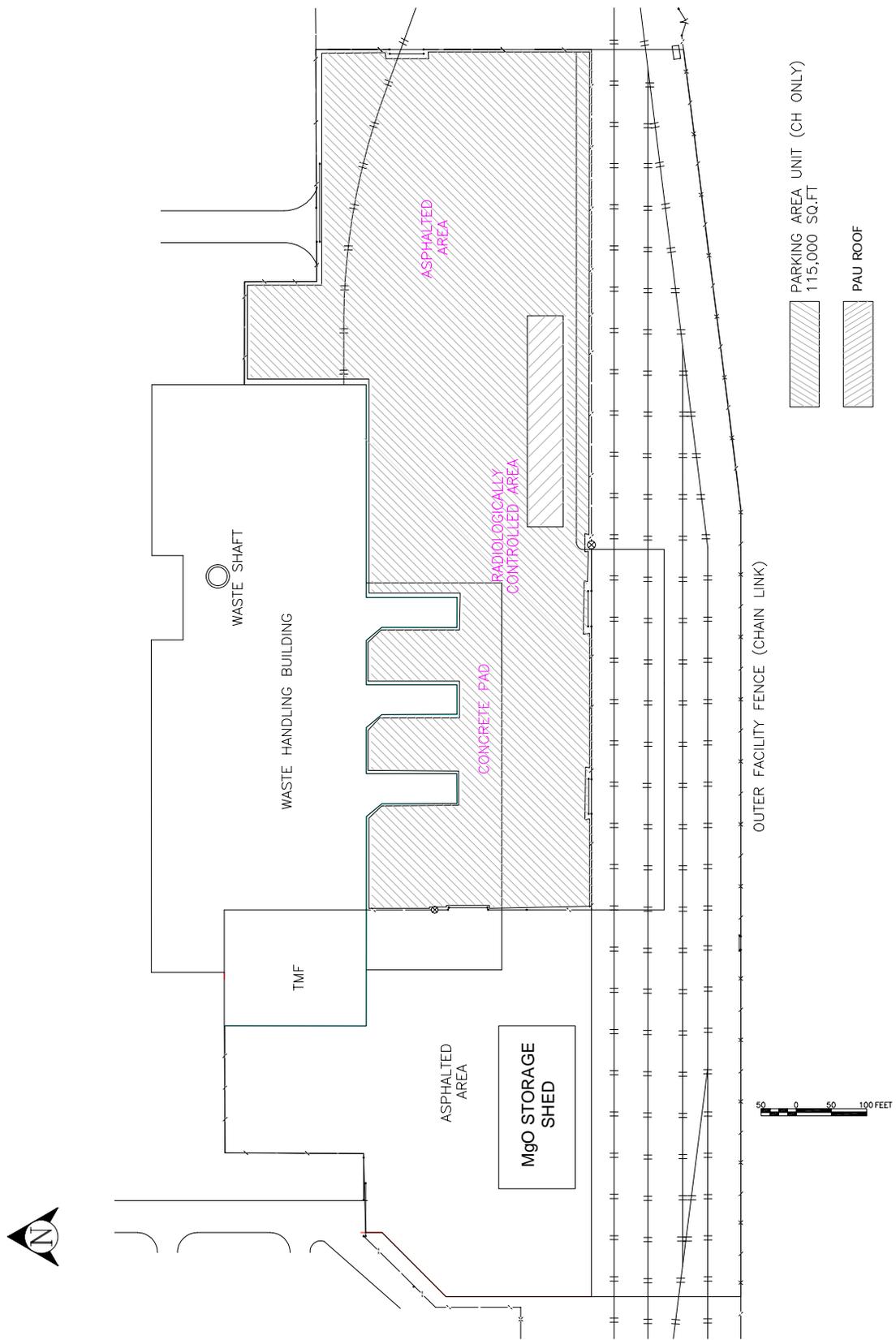


Figure O3-4  
Parking Area - Container Storage Unit