

Control #: D4-100N-0019

**FACILITY STATUS CHANGE FORM**

<b>Date Submitted:</b> Sep 21, 2009	<b>Area:</b> 100-N	<b>Control #:</b> D4-100N-0019
<b>Originator:</b> Bob Cathel	<b>Facility ID:</b> MO-013 Mobile Office (1158-N)	
<b>Phone:</b> (509) 845-6146	<b>Action Memorandum:</b> 100-N Ancillary Facilities	

**This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.**

**Section 1: Facility Status**

- ☒ All D4 operations required by action memo complete.
- ☐ D4 operations required by action memo partially complete, remaining operations deferred.

**Description of Completed Activities and Current Conditions:**

Deactivation: Utility isolation was performed on MO-013 Mobile Office prior to beginning facility deactivation.

Decontamination and Decommissioning: The following hazardous materials were removed prior to facility demolition: batteries, light bulbs, oils, grease, asbestos-containing material, mercury, refrigerant and polychlorinated biphenyls. Hazardous material removal and waste disposition was performed in accordance with the *Removal Action Work Plan for 100-N Area Ancillary Facilities*, DOE/RL-2002-70.

Demolition: Demolition of the above-grade structures was complete October 2004. Below-grade demolition was complete in June 2008. The building debris was disposed at the Environmental Restoration Disposal Facility. Based on the industrial hygiene scoping survey and characterization sampling results (see attachment 1); metals, chemicals and asbestos were not contaminants of concern during demolition. Also, based on past uses of this facility and radiological scoping survey results (see attachment 1), radiological contamination was not expected during demolition; however, demolition was performed under radiological controls as a precaution.

**Description of Deferral (as applicable):**

Not applicable.

**Section 2: Underlying Soil Status**

- ☒ No waste site(s) present. No additional actions anticipated.
- ☐ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- ☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned. Cleanup and closeout to be addressed under Record of Decision.

**Description of Current/As-Left Conditions:**

The MO-013 Mobile Office facility was demolished and removed. A minimal amount of soil was removed along with the building debris. No backfill material was needed to regrade the site.

**Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):**

No waste sites are present.

**RECEIVED**  
OCT 29 2009

**EDMC**

**FACILITY STATUS CHANGE FORM****Section 3: List of Attachments**

1. Facility Information - Building History and Characterization
2. Post-Demolition GPERS Radiological Survey
3. Pre- and Post-Demolition GPS Surveys
4. Pre- and Post-Demolition Photographs

Rudy Guercia

DOE-RL

Les Fort

Lead Regulator

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EPA

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Ecology

Date

Date

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D4 EPL: Robert Cathel, X5-50

Sample Design/Cleanup Verification: Megan Proctor, H4-22

FR Engineering: Rich Carlson, N3-30

FR EPL: Dan Saueressig, N3-30



100-N D4 Project Facility Completion Form

**Attachment 1: Facility Information (4 pages)**

### **Introduction**

This document provides information regarding the 1330-N Waste Storage Facility history, characterization and final status at the completion of deactivation, decontamination, decommissioning and demolition (D4) activities.

The Waste Information Data System (WIDS) identifies the 1330-N Waste Storage Facility as Site Code 116-N-8. Other names used to identify this facility, have included; 1330-N, 1330-N Waste Storage Pad, 116-N-8, 116-N-8 Storage Pad, and 163-N Mixed Waste and Hazardous Waste Container Storage Pad.

### **Site Information**

The 1330-N Waste Storage Facility was a curbed and fenced concrete pad. The pad was covered by an open metal shed, installed over the pad in the late 1980's that was divided into three storage areas each with its own locked gate. The entire unit was approximately 150 feet by 60 feet. The south and west sides of the unit had sheet metal siding. The east and north sides were open. An asphalt parking/driving area was on the north side, gravel surrounded the rest of the facility. A temporary metal enclosure (a.k.a. Perma-Con® Unit) was located on the east end of the pad and was used as an enclosure for opening and inspecting containers. A three-unit flammable/hazardous materials storage shed was located on the north end of the middle storage area.

The 1330-N Waste Storage Facility was used to store and package waste for disposal. The site operated as a 90-day storage pad receiving radioactively contaminated oil and miscellaneous hazardous process chemicals in drums and other containers, as identified in the WIDS general summary report for site code 116-N-8 (included as Attachment 2). The metal Perma-Con® Unit on the east side was used as a containment to inspect and package radioactive materials for disposal. There is no history of spills occurring on the pad and no stains were observed during facility walkdowns.

Facility description information was collated from the *Historical Site Assessment for the 1120-N Training Building and 1330-N Waste Storage Facility* (CCN 134712).

### **Radiological Scoping and Industrial Hygiene Baseline Surveys**

A radiological scoping survey of the building was performed prior to demolition and documented in RSR-100N-08-0973. The survey included a total of 30 direct readings and smears, focused on the east area of the facility, which was posted as a Radioactive Material Area at the time. No Industrial hygiene Baseline survey was performed at the 1330-N Waste Storage Facility. See Table 1 for a summary of radiological scoping survey results.



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**Table 1. Summary of Scoping Surveys 1330-N**

Type	Quantity	Method Detection Limits	Results
Radiological Scoping Surveys	1 Survey – 30 sample points	Alpha – 20 removable / 500 fixed (dpm/100cm <sup>2</sup> ) Beta-gamma – 1,000 removable / 5,000 fixed (dpm/100cm <sup>2</sup> )	All results were below method detection limits.

### **Post Demolition Radiological Surveys**

The final radiological down-posting survey was performed in June 2008 and documented in RSR-100N-08-1114. All areas were directly surveyed. All surveyed areas are at less than detectable levels and a summary of the results are included in Table 2.

A post-demolition Global Positioning Environmental Radiological Survey (GPERS) was conducted on the 1330-N facility area as a final survey of this site in November 2008. A Beta and Gamma survey was performed. During the Beta radiation survey, 3090 data points were measured and no data point was greater than 2 times the average background of 411 counts per minute. During the Gamma radiation survey, 3090 data points were measured also and no data point was greater than 2 times the average background of 1106 counts per minute. A summary of the GPERS results are included in Table 2 and copies of the survey maps are in Attachment 3.

### **Facility & Waste Characterization Sampling**

An asbestos inspection was conducted in January 2007 and is documented in CNN 132955 and logbook EL-1516-11 page 41. During the inspection, no potential asbestos containing material was identified. No samples needed to be collected to complete facility and waste characterization.

### **Demolition**

Demolition of the above-grade structure of the 1330-N Waste Storage Facility and its slab was completed in June 2008. The demolition material was loaded into roll-off containers and sent to the Environmental Restoration Disposal Facility (ERDF) for disposal.

### **Civil Survey Information**

A pre-demolition GPS survey of the concrete pad corners was conducted February 2008. A post demolition GPS survey of the old building site was conducted November 2008. Both surveys are included in Attachment 4.

### **Anomalies**

No anomalies were reported with the demolition and load out of the 1330-N Waste Storage Facility.

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### **Final Building Status & Underlying Soil**

The 1330-N Waste Storage Facility was demolished to the concrete pad in June 2008. After demolition was completed the building debris was stockpiled, sized reduced on the concrete pad, loaded out and disposed at the ERDF. Demolition and removal of all traces of the concrete pad was also completed in June 2008. A minimal amount of soil was removed along with the concrete pad. Backfill material from 100-N Borrow Pit was brought in to regrade the site.

All D4 post-demolition characterization is complete and an assessment of the contaminants of concern is presented in Table 2. This characterization is in agreement with clarifying language captured in the Unit Manager's Meeting minutes of 8/14/08 as an agreement between DOE and Ecology. In accordance with that agreement, a visual inspection of the excavated area was conducted as well as appropriate radiological surveys. No soil staining or radiological contamination was identified.

**Table 2. Contaminants of Concern for Facility Demolition**

<b>Contaminant of Concern</b>	<b>Determination of no impact to the soil</b>
Radionuclides	<p>A radiological down-posting survey was conducted on the site – 54 sample points (24 direct readings and 30 technical smears). All sample results were below the following method detection limits: Alpha – 20 removable / 500 fixed (dpm/100cm<sup>2</sup>), Beta-gamma – 1,000 removable / 5,000 fixed (dpm/100cm<sup>2</sup>).</p> <p>Additionally, a Global Positioning Environmental Radiological Survey (GPERS) conducted on the 1330-N Waste Storage Facility as a final survey of this site and found that all sampling points for Beta and Gamma radiation were less than 2 times the average background.</p>
Chemicals	<p>All containerized chemicals and other hazardous materials were removed prior to demolition. In addition, visual examination for stained soil prior to backfill was conducted to ensure no legacy or newly discovered staining was identified.</p>
Metals	<p>All containerized chemicals and other hazardous materials were removed prior to demolition.</p>
Asbestos	<p>No asbestos containing material was identified, as documented in CCN 132955 and logbook EL-1516-11 page 41.</p>



## 100-N D4 Project Facility Completion Form

### References

CCN 134712, *Historical Site Assessment for the 1120-N Training Building and 1330-N Waste Storage Facility*, Encke, D. B., July 2007, Washington Closure Hanford, LLC, Richland, Washington

CCN 132955, *Asbestos Inspection Summary Report for the 1330-N Waste Storage Pad*, Hood, A. M., March 2007, Washington Closure Hanford, LLC, Richland, Washington

DOE-RL, 2006, *Removal Action Work Plan for 100-N Area Ancillary Facilities*, DOE/RL-2002-70, Rev. 2, U.S. Department of Energy, Richland Operations Office, Richland, Washington

EL-1516-11, *Miscellaneous Sampling*, pp 41, August 2007, Washington Closure Hanford, LLC, Richland, Washington

RSR-100N-08-0973, *Radiological Survey Record – Characterization Survey of 1330-N Waste Pad Prior to Demo*, June 2008, Washington Closure Hanford, LLC, Richland, Washington

RSR-100N-08-1114, *Radiological Survey Record – 1330-N Waste Pad Downpost RBA*, June 2008, Washington Closure Hanford, LLC, Richland, Washington

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**Attachment 2: GPERS Survey (2 pages)**





# MO-013

Bkg. Location ☒  
483 cpm

COPY

### Legend

NETCPM

- ✕ < 800  
 ● 800 - 1000  
 ● 1000 - 1200  
 ● 1200 - 1400  
 ● > 1400

## Summary Statistics

Coverage File: N041\_  
Number of Data Pnts: 930  
Type of Survey: 'Beta'  
Max GCPM:779  
Avg Bkg CPM: 483  
Survey Date: 02/10/2009  
Area Surveyed: 455 m2  
Project File: N041\_  
Pdf File: ESRFRM090023\_C

**100N Field Remediation  
M0-013 Site Pad  
GPERS Radiological Survey  
Beta Track Map**

3 0 3 6 Meters



**EBERLINE  
SERVICES**  
HANFORD, INC.

Survey Map Prepared By Hlp Hernandez, ESI



Bkg. Location ☐ ☒  
1234 cpm

# MO-013

COPY

## Summary Statistics

- Coverage File: N041  
Number of Data Pnts: 930  
Type of Survey: 'Gamma'  
Max GCPM: 1255  
Avg Bkg CPM: 1234  
Survey Date: 02/10/2009  
Area Surveyed: 455 m2  
Project File: N041  
Pdf File: ESRFRM090023C

**100N Field Remediation  
MO-013 Site Pad  
GPERS Radiological Survey  
Gamma Track Map**

3 0 3 6 Meters



**EBERLINE  
SERVICES**  
HANFORD, INC.

Survey Map Prepared By Hip Hernandez, ESI



100-N D4 Project Facility Completion Form

**Attachment 3: GPS Surveys (5 pages)**

0579145

# GPS Survey Data Report for Job 947- MO013, MO425, MO426, MO427, Pre Demolition

**Project : JOB 947**

<b>User name</b>	maaye	<b>Date &amp; Time</b>	8:38:18 AM 12/20/2006
<b>Coordinate System</b>	US State Plane 1983	<b>Zone</b>	Washington South 4602
<b>Project Datum</b>	NAD 1983 (Conus)		
<b>Vertical Datum</b>	NAD83	<b>Geoid Model</b>	GEOID99 (Conus)
<b>Coordinate Units</b>	Meters		
<b>Distance Units</b>	Meters		
<b>Height Units</b>	Meters		

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Survey Project Name/Title: Job 947-MO-013, MO-425, MO-426, MO427  
Buildings  
Survey Purpose: GPS the area corners and surrounding  
features for the described Mobile Offices  
Requested By: Amy Hood  
General Site Location: 100-N  
Charge Code:  
Field Surveyor: Margo Aye  
Computer Software Used: Trimble Survey Controller, and Geomatics  
Office V.11  
Survey Equipment Used: 5800  
Control Monuments Used:  
Survey Method: RTK  
Estimated Horizontal Precision: .02m  
Estimated Vertical Precision: .05m  
Fieldwork Start Date 3/22/06  
Completion Date: 10/24/06

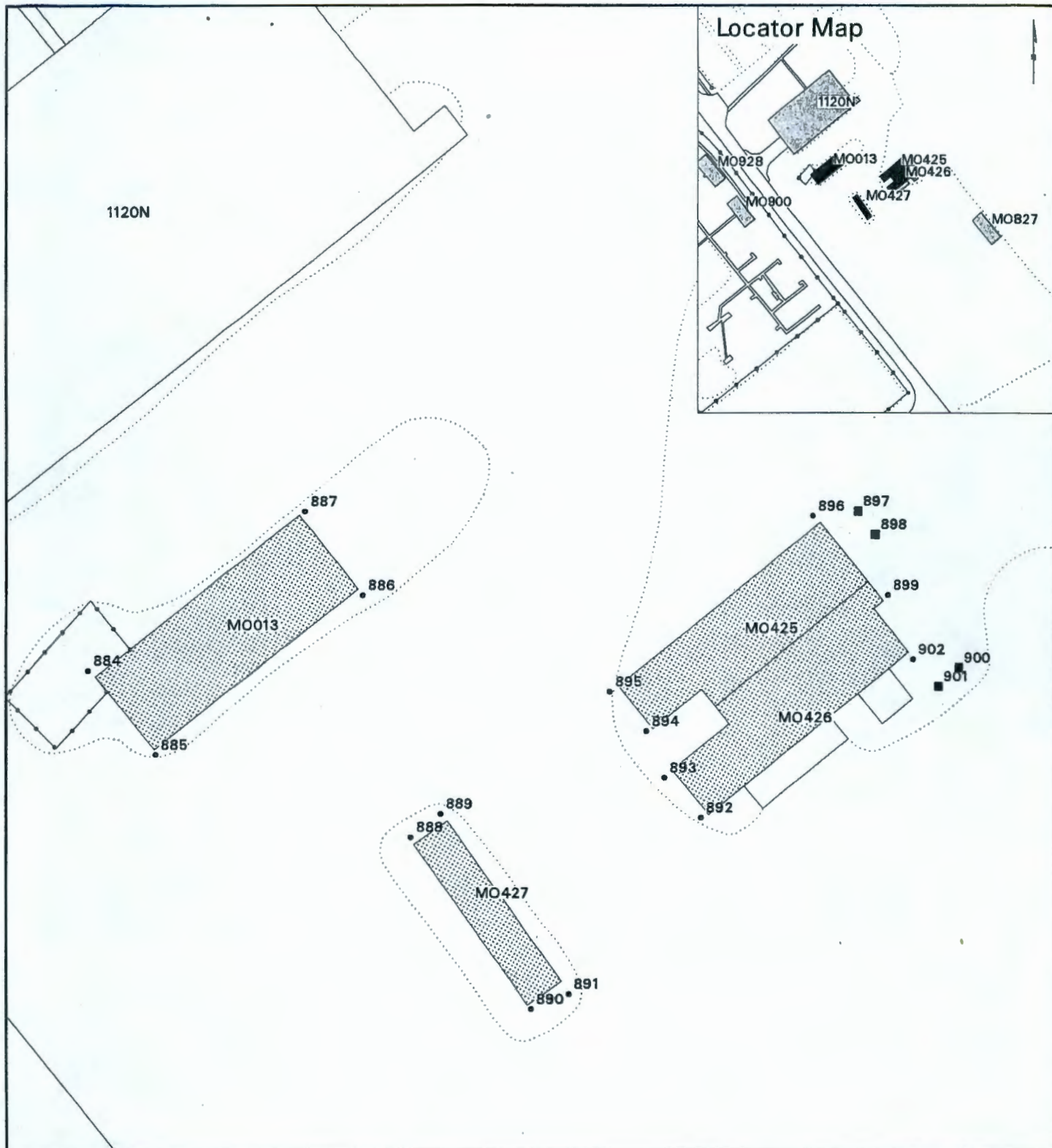
Notes: *Logbook # EL1571*

	Name	Northing	Easting	Elevation	Feature Code	Description
884	149250.035m	571627.311m	142.560m	corn-bldg	MO-013	
885	149243.478m	571632.529m	142.699m	corn-bldg	MO-013	
886	149255.865m	571648.424m	142.555m	corn-bldg	MO-013	
887	149262.374m	571643.976m	142.429m	corn-bldg	MO-013	
888	149237.038m	571652.130m	142.432m	corn-bldg	MO-427	
889	149238.867m	571654.462m	142.414m	corn-bldg	MO-427	
890	149223.645m	571661.448m	142.233m	corn-bldg	MO-427	
891	149224.816m	571664.288m	142.197m	corn-bldg	MO-427	



892	149238.542m	571674.484m	142.158m	corn-bldg	MO-426
893	149241.692m	571671.698m	142.252m	corn-bldg	MO-426
894	149245.308m	571670.328m	142.323m	corn-bldg	MO-425
895	149248.391m	571667.527m	142.605m	corn-bldg	MO-425
896	149262.052m	571683.278m	142.143m	corn-bldg	MO-425
897	149262.384m	571686.719m	142.128m	confined space	MO-425
898	149260.594m	571688.156m	142.144m	confined space	MO-426
899	149255.884m	571689.141m	142.107m	corn-bldg	MO-426
900	149250.299m	571694.727m	141.768m	confined space	MO-426
901	149248.813m	571693.125m	141.832m	confined space	MO-426
902	149250.930m	571691.104m	141.991m	corn-bldg	MO-426

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Paved Roads and Sidewalks



Unpaved Roads and Trails



Railroad



Fences



Building Locations for MO-013,  
MO-425, MO-426, and MO-427  
Prior to Demolition

- GPS Building Corner Locations for  
MO-013, MO-425, MO-426, MO-427  
Prior to Demolition
- GPS Locations for Surrounding Features  
See Survey Report for Point Details

## Pre Demolition Survey for MO-013, MO-425, MO-426, and MO-427



Meters





0598243

# Post Demolition GPS Survey Report for MO-013

Project : 183nd-post

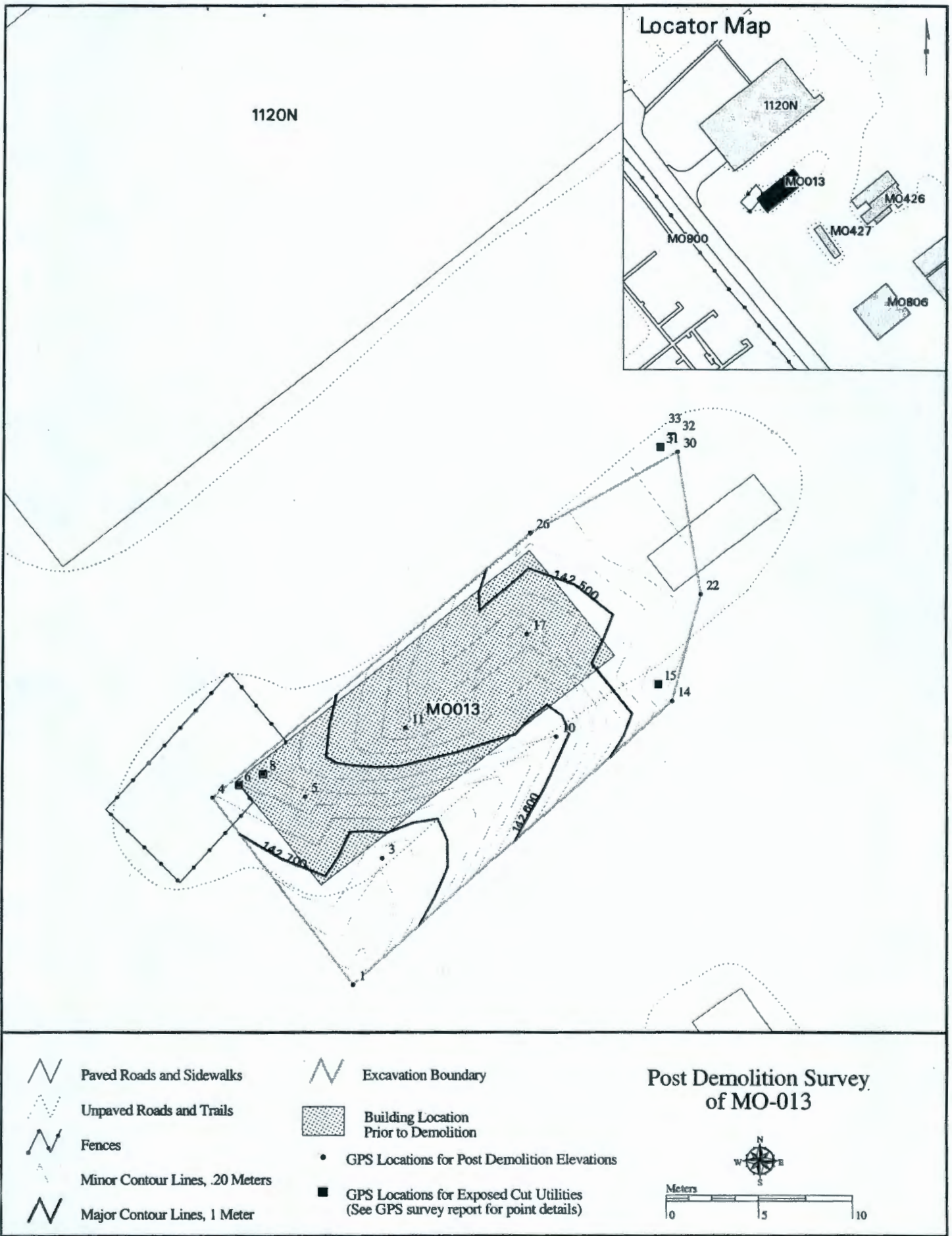
Job 1089

User name	maaye	Date & Time	11:17:19 AM 2/11/2009
Coordinate System	US State Plane 1983	Zone	Washington South 4602
Project Datum	NAD 1983 (Conus)		
Vertical Datum	NAD83	Geoid Model	GEOID99 (Conus)
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

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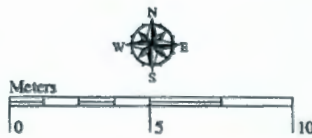
Survey Project Name: Map the surface of MO-013  
 Date: 2/10/2009  
 Equipment: 5800  
 Survey Purpose: Post demo report  
 Requested By: Mike Stankovitch  
 Location: 100-N  
 Charge Code:  
 Field Surveyor: Margo Aye  
 Survey Software Used: Trimble Survey Controller, and Geomatics Office V.11  
 Survey Equipment Used: 5800  
 Control Monuments Used: N-2  
 Survey Method: RTK  
 Horizontal Precision: .020m  
 Vertical Precision: .050m  
 Fieldwork Start Date: 021009  
 Fieldwork Completion Date: 021009  
 Notes:  
 Logbook# EL-1571-04

Name	Northing	Easting	Elevation	Feature Code	Description
1	149238.480m	571634.121m	142.770m	top	
2	149253.883m	571651.269m	142.433m	top	
3	149259.670m	571652.839m	142.445m	top	
4	149267.401m	571651.553m	142.432m	top	
5	149263.015m	571643.620m	142.471m	top	
6	149248.617m	571626.543m	142.683m	top	
7	149249.316m	571628.013m	142.632m	cut-elec-wires	
8	149249.921m	571629.307m	142.575m	cut-elec-wires	
9	149254.795m	571650.497m	142.310m	cut-tele-wires	
10	149267.655m	571650.626m	142.430m	cut-elec-wires	
11	149268.229m	571651.254m	142.561m	cut-elec-wires	
12	149268.068m	571651.253m	142.630m	cut-power-pole	
13	149257.521m	571643.415m	142.552m	topo	
14	149251.950m	571644.978m	142.621m	topo	
15	149252.439m	571636.914m	142.543m	topo	
16	149245.330m	571635.681m	142.737m	topo	
17	149248.692m	571631.546m	142.648m	topo	



- |  |                                |   |  |
|--|--------------------------------|---|--|
|  | Paved Roads and Sidewalks      |   | Excavation Boundary  |
|  | Unpaved Roads and Trails       |   | Building Location Prior to Demolition  |
|  | Fences                         | • | GPS Locations for Post Demolition Elevations   |
|  | Minor Contour Lines, 20 Meters | ■ | GPS Locations for Exposed Cut Utilities<br>(See GPS survey report for point details) |
|  | Major Contour Lines, 1 Meter   |   |  |

Post Demolition Survey  
of MO-013



**Attachment 4: Photographs (2 pages)**



100-N D4 Project Facility Completion Form

**Figure 1. Pre-demolition Photograph of MO-013 Mobile Office**



**Figure 2. Aerial Pre-demolition Photograph of MO-013 Mobile Office**



100-N D4 Project Facility Completion Form

**Figure 3. Post-demolition Photograph of MO-013 Mobile Office**

